SAFETY DATA SHEET

Version #: 19

Issue date: 02-28-2013 Revision date: 07-26-2023 Supersedes date: 06-24-2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation

of the mixture

Synonyms

Chockfast Red Aggregate

Registration number

None. GP107A

SKU# GP107A

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified usesNot available.Uses advised againstNone known.

1.3. Details of the supplier of the safety data sheet

Company Name ITW Performance Polymers

Address Bay 150

Shannon Industrial Estate

Co. Clare Ireland V14 DF82

Contact Person Customer Service
Telephone Number 353(61)771500

353(61)471285

Email customerservice.shannon@itwpp.com

Emergency Phone Number 44(0) 1235 239 670 (24 hours)

1.4. Emergency telephone number

General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for

the Emergency Service.)

Austria National Poisons

Information Center

+431 406 4343 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Belgium National Poisons

Control Center

070 245 245 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Bulgaria National

Toxicological Information

Center

+359 2 9154 233 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Croatia Poisons Information Center

+385 1 2348 342 (Hours of operation not provided. SDS/Product information may

not be available for the Emergency Service.)

Cyprus Poison Center

1401 (Available 24 hours a day. SDS/Product information may not be available

for the Emergency Service.)

Czech Republic National Poisons Information

Center

Control Center

+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Denmark National Poisons

+45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Estonia National Poisons Information Center

16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be

available for the Emergency Service.)

Finland National Poison Information Center

(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

France National Poisons Control Center ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Material name: Chockfast Red Aggregate

20/1 roduct miormation may not be available for the Emergen

1.4. Emergency telephone number

Greece Poison Information Centre

(0030) 2107793777 (Available 24 hours a day. SDS/Product information may not

be available for the Emergency Service.)

Hungary National Emergency Phone Number +36-80-201-199 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Iceland Poison Center

(+354) 543 2222 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Latvia Emergency medical

Latvia Poison and Drug

aid

+371 67042473 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.) Information Center

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Lithuania Neatidėliotina informacija apsinuodijus

+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Malta Accident and **Emergency Department**

2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Netherlands National Poisons Information Center (NVIC)

NVIC: +31 (0)88 755 8000 (Only for the purpose of informing medical personnel

in cases of acute intoxications)

Norway Norwegian Poison Information Center

22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Portugal Poison Center

800 250 250 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Romania Biroul RSI si Informare Toxicologica 021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be

available for the Emergency Service.)

Slovakia National **Toxicological Information** Center

+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not

be available for the Emergency Service.)

Spain Toxicology Information Service + 34 91 562 04 20 (Available 24 hours a day. SDS/Product information may not

be available for the Emergency Service.)

Sweden National Poison Information Center

112 - and ask for Poison Information (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Switzerland Tox Info

Suisse

145 (Available 24 hours a day. SDS/Product information may not be available for

the Emergency Service.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Carcinogenicity Category 1A H350 - May cause cancer.

Specific target organ toxicity - repeated exposure

Category 2

H373 - May cause damage to organs through prolonged or

repeated exposure.

H373 - May cause damage to organs () through prolonged or repeated exposure by inhalation.

2.2. Label elements

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Label according to Regulation (EC) No. 1272/2008 as amended

UFI:

Austria: 86D0-Q0TW-2001-R7UU Belgium: 86D0-Q0TW-2001-R7UU Bulgaria: 86D0-Q0TW-2001-R7UU Croatia: 86D0-Q0TW-2001-R7UU Cyprus: 86D0-Q0TW-2001-R7UU

Czech Republic: 86D0-Q0TW-2001-R7UU
Denmark: 86D0-Q0TW-2001-R7UU
Estonia: 86D0-Q0TW-2001-R7UU
EU: 86D0-Q0TW-2001-R7UU
Finland: 86D0-Q0TW-2001-R7UU
France: 86D0-Q0TW-2001-R7UU
Germany: 86D0-Q0TW-2001-R7UU
Greece: 86D0-Q0TW-2001-R7UU
Hungary: 86D0-Q0TW-2001-R7UU
Iceland: 86D0-Q0TW-2001-R7UU
Ireland: 86D0-Q0TW-2001-R7UU
Italy: 86D0-Q0TW-2001-R7UU
Latvia: 86D0-Q0TW-2001-R7UU
Lithuania: 86D0-Q0TW-2001-R7UU
Luxembourg: 86D0-Q0TW-2001-R7UU

Luxembourg: 86D0-Q0TW-2001-R7UU
Malta: 86D0-Q0TW-2001-R7UU
Netherlands: 86D0-Q0TW-2001-R7UU
Norway: 86D0-Q0TW-2001-R7UU
Poland: 86D0-Q0TW-2001-R7UU
Portugal: 86D0-Q0TW-2001-R7UU
Romania: 86D0-Q0TW-2001-R7UU
Slovakia: 86D0-Q0TW-2001-R7UU
Slovenia: 86D0-Q0TW-2001-R7UU
Spain: 86D0-Q0TW-2001-R7UU

Sweden: 86D0-Q0TW-2001-R7UU

Contains: Crystalline SiO2 (Quartz), Glass, Oxide

Hazard pictograms



Signal word Danger

Hazard statements

H350 May cause cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H373 May cause damage to organs () through prolonged or repeated exposure by inhalation.

Precautionary statements

Prevention

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P260 Do not breathe mist/vapors.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

P308 + P313 IF exposed or concerned: Get medical advice/attention.

Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental label information Restricted to professional users. 99,24% of the mixture consists of component(s) of unknown

acute dermal toxicity. 79,72% of the mixture consists of component(s) of unknown acute inhalation toxicity. 99,24% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 99,24% of the mixture consists of component(s) of unknown long-term

hazards to the aquatic environment.

2.3. Other hazardsThis mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a

concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Crystalline SiO2 (Quartz)	60 - 100	14808-60-7 238-878-4	-	-	#
Classificati	on: Carc. 1A;H	350			
Glass, Oxide	10 - 30	65997-17-3 266-046-0	-	650-016-00-2	#
Classificati	on: Carc. 2;H3	51			

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

levels

vPvB: very persistent and very bioaccumulative substance. PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Union workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice

(show the label where possible). Ensure that medical personnel are aware of the material(s)

involved, and take precautions to protect themselves.

4.1. Description of first aid measures

Inhalation If exposed to excessive levels of dusts or fumes, remove to fresh air and get medical attention if

cough or other symptoms develop.

Skin contact Wash off with soap and water. Get medical attention if irritation develops and persists.

Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Rinse mouth. Get medical attention if symptoms occur. Ingestion 4.2. Most important symptoms Coughing. Prolonged exposure may cause chronic effects.

and effects, both acute and

delayed

Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed.

4.3. Indication of any immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures

Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Do not breathe mist/vapors.

Keep unnecessary personnel away. Ensure adequate ventilation. Local authorities should be For emergency responders

advised if significant spillages cannot be contained. For personal protection, see section 8 of the

Avoid discharge into drains, water courses or onto the ground. 6.2. Environmental precautions

Material name: Chockfast Red Aggregate

SDS FII

6.3. Methods and material for containment and cleaning up

The product is immiscible with water and will spread on the water surface.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. Put material in suitable, covered, labeled containers. The product is insoluble in water.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapors. Avoid prolonged exposure. Should be handled in closed systems, if possible. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

7.3. Specific end use(s)

Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

65997-17-3)

Occupational exposure limits

Components	ce (GwV), BGBI. II, no. 184/2001 Type	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	MAK	0,05 mg/m3	Respirable dust.
Austria. OELs. TRK List, Grenzw	erteverordnung, BGBI. II, no. 4	29/2011, as amended	
Components	Туре	Value	Form

Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 -Chemical agents, as amended

Components	Туре	Value	Form	
Crystalline SiO2 (Quartz)	TWA	0,1 mg/m3	Respirable dust.	
(CAS 14808-60-7)				

Bulgaria. OEL values of carcinogens and mutagens at work (Reg. 10/2003 on prot. from carcinogens and mutagens at work, Ann. 1), as amended

Components	Туре	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable fraction and dust
Glass, Oxide (CAS 65997-17-3)	TWA	0,3 fibers/cm3	Fiber.

Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended

Components	Type	Value	
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	MAC	0,1 mg/m3	
Glass, Oxide (CAS 65997-17-3)	MAC	0,3 fibers/cm3	

Cyprus. OELs. Control of factory atmosphere and dangerous substances in factories regulation, PI 311/73, as amended **Form** Components Type Value

Glass, Oxide (CAS	TWA	10 mg/m3	Fiber or dust.
65997-17-3)			

361/2007, Annex 2, Part A & Anno Components	Туре	Value	Form
rystalline SiO2 (Quartz) CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.
enmark. Work Environment Automponents	thority. Exposure Limits for Sub Type	bstances & Materials, Annex 2 Value	Form
Crystalline SiO2 (Quartz) CAS 14808-60-7)	TLV	0,3 mg/m3	Total
		0,1 mg/m3	Respirable.
Glass, Oxide (CAS 5997-17-3)	TLV	0,3 fibers/cm3	Fiber.
stonia. OELs. Occupational Exp components	oosure Limits of Hazardous Sub Type	ostances (Regulation No. 105/2 Value	001, Annex), as amended Form
Crystalline SiO2 (Quartz) CAS 14808-60-7)	TWA	0,1 mg/m3	Fine dust, respiratory fraction
Glass, Oxide (CAS 55997-17-3)	TWA	1 fibers/ml	
inland. Government Decree on Components	Work-related Cancer Risks Type	Value	Form
Glass, Oxide (CAS	TWA	0,3 fibers/cm3	Fiber.
5997-17-3) Finland. HTP-arvot, App 3., Bindi	_	-	Form
Components Crystalline SiO2 (Quartz)	Type TWA	Value 0,05 mg/m3	Form Respirable.
CÁS 14808-60-7) Glass, Oxide (CAS	TWA	0,3 fibers/cm3	Respirable.
⁽ 5997-17-3) France. OELs. Occupational Exp	osure Limits as Prescribed by <i>i</i>	Art. R.4412-149 of Labor Code,	as amended
Components	Туре	Value	Form
Crystalline SiO2 (Quartz) CAS 14808-60-7)	VME	0,1 mg/m3	Respirable dust.
rance. Threshold Limit Values (Components	VLEP) for Occupational Exposเ Type	ure to Chemicals in France, INI Value	RS ED 984 Form
Crystalline SiO2 (Quartz) CAS 14808-60-7)	VME	0,1 mg/m3	Respirable fraction.
Regulatory status: Regulat	tory binding (VRC)		
lungary. OELs. Decree on prote Components	ction of workers exposed to ch Type	emical agents (5/2020. (II.6)), A Value	nnex 1&2, as amended Form
Crystalline SiO2 (Quartz) CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.
Glass, Oxide (CAS 65997-17-3)	TWA	1 fibers/cm3	Fibrous dust.
5997-17-3) celand. OELs. Regulation 390/20			
celand. OELs. Regulation 390/20 Components Crystalline SiO2 (Quartz)	009 on Pollution Limits and Mea	sures to Reduce Pollution at t	ne Workplace, as amend
celand. OELs. Regulation 390/20 Components Crystalline SiO2 (Quartz)	009 on Pollution Limits and Mea Type	sures to Reduce Pollution at t Value	ne Workplace, as amend Form
celand. OELs. Regulation 390/20 Components Crystalline SiO2 (Quartz) CAS 14808-60-7) Glass, Oxide (CAS	009 on Pollution Limits and Mea Type	asures to Reduce Pollution at t Value 0,3 mg/m3	he Workplace, as amend Form Total dust.
celand. OELs. Regulation 390/20 components Crystalline SiO2 (Quartz) CAS 14808-60-7) Glass, Oxide (CAS 15997-17-3) reland. OELVs, Schedules 1 & 2	009 on Pollution Limits and Mea Type TWA	0,3 mg/m3 0,1 mg/m3 1 fibers/cm3	he Workplace, as amende Form Total dust. Respirable dust. Fiber.
celand. OELs. Regulation 390/20 Components Crystalline SiO2 (Quartz) CAS 14808-60-7) Glass, Oxide (CAS 15997-17-3) reland. OELVs, Schedules 1 & 2 components Crystalline SiO2 (Quartz)	TWA TWA TODA TODA	o,3 mg/m3 0,1 mg/m3 1 fibers/cm3 Agents and Carcinogens Regions	he Workplace, as amende Form Total dust. Respirable dust. Fiber.
	TWA TODA TWA TWA TWA TWA TWA TODA TODA TODA TODA TODA	osures to Reduce Pollution at t Value 0,3 mg/m3 0,1 mg/m3 1 fibers/cm3 Agents and Carcinogens Regulation	he Workplace, as amend Form Total dust. Respirable dust. Fiber. Alations Form

aly. OELs (Legislative Decree n. components	Type	Value	Form
Crystalline SiO2 (Quartz) CAS 14808-60-7)	TWA	0,025 mg/m3	Respirable fraction.
atvia. OELs. Occupational Expo), as amended	sure Limits of Chemical Subst	ances at Workplace (Reg. No. 3	325/ 2007, L.V. 80, Anne
components	Туре	Value	Form
rystalline SiO2 (Quartz) CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.
lass, Oxide (CAS 5997-17-3)	TWA	0,3 fibers/cm3	
		2 mg/m3	
thuania. OELs. Occupational Ex-824/A1-389), as amended	cposure Limit Values for Chem	ical Substances (Hygiene Nori	m HN 23:2011; Order No
omponents	Туре	Value	Form
rystalline SiO2 (Quartz) AS 14808-60-7)	TWA	0,1 mg/m3	Respirable fraction.
/ lass, Oxide (CAS 5997-17-3)	TWA	1 fibers/cm3	Fiber.
uxembourg. Chemical Substand 35/2016, as amended	es Prohibited at Work (Annex	III), G.D.R. of 14 November 201	6, OJ Memorial A, n °
omponents	Туре	Value	Form
rystalline SiO2 (Quartz) CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.
etherlands. OELs per Annex XII	l of Working Conditions Regul	ation (Staatscourant no. 252, 2	9 December 2006), as
mended omponents	Туре	Value	Form
rystalline SiO2 (Quartz) :AS 14808-60-7)	TWA	0,075 mg/m3	Respirable dust.
orway. Regulation No. 1358 on fection Groups for Biological F		Physical and Chemical Factor	s in Work Environment
omponents	Type	Value	Form
rystalline SiO2 (Quartz) CAS 14808-60-7)	TLV	0,3 mg/m3	Total dust.
		0,05 mg/m3	Respirable dust.
lass, Oxide (CAS 5997-17-3)	TLV	5 mg/m3	Total dust.
pland. Maximum permissible co	ncentrations and intensities o	f harmful factors in the work e	nvironment (Dz.U.Poz.
286/2018, Annex 1) omponents	Туре	Value	Form
rystalline SiO2 (Quartz) CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable fraction.
lass, Oxide (CAS 5997-17-3)	TWA	1 fibers/cm3	Respirable fibers.
ortugal. VLEs. Norm on occupa	tional exposure to chemical ac	ients (NP 1796-2014)	
omponents	Type	Value	Form
ystalline SiO2 (Quartz) AS 14808-60-7)	TWA	0,025 mg/m3	Respirable fraction.
ass, Oxide (CAS	TWA	0,2 fibers/cm3	Fiber.
5997-17-3)		5 mg/m3	Inhalable fraction.
5997-17-3)			
lovakia. OELs for carcinogens a	and mutagens. Regulation No.	356/2006 on carcinogenic and	mutagenic substances,
5997-17-3) lovakia. OELs for carcinogens a mended omponents	and mutagens. Regulation No.	356/2006 on carcinogenic and Value	mutagenic substances, Form

Components	Туре	Value
Glass, Oxide (CAS 65997-17-3)	TWA	2 fibers/cm3

Spain. OELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 1-Valores Límites Ambientales (VLAs)

Components	Туре	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,05 mg/m3	Respirable fraction.
Glass, Oxide (CAS 65997-17-3)	TWA	0,3 fibers/cm3	Fiber.

Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended

Components	Туре	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable dust.
Glass, Oxide (CAS 65997-17-3)	TWA	1 fibers/ml	

Switzerland, SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte

Components	Туре	Value	Form
Crystalline SiO2 (Quartz)	TWA	0,15 mg/m3	Respirable fraction.

UK. OELs. Workplace Exposure Limits (WELs) (EH40/2005 (Fourth Edition 2020)), Table 1

Components	Туре	Value	Form	
Crystalline SiO2 (Quartz)	TWA	0,1 mg/m3	Respirable.	
(CAS 14808-60-7)				

EU. OELs, Directive 2004/37/EC on carcinogen and mutagens from Annex III, Part A, as amended

Components	Туре	Value	Form
Crystalline SiO2 (Quartz) (CAS 14808-60-7)	TWA	0,1 mg/m3	Respirable fraction and dust
Glass, Oxide (CAS 65997-17-3)	TWA	0,3 fibers/ml	

Biological limit values No biological exposure limits noted for the ingredient(s).

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no effect levels

(DNELs)

Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective

smoking. Routinely wash work clothing and protective equipment to remove contaminants.

equipment.

Eye/face protection

Skin protection

Chemical respirator with organic vapor cartridge and full facepiece.

- Hand protection Wear appropriate chemical resistant gloves.

Use of an impervious apron is recommended. - Other

Chemical respirator with organic vapor cartridge and full facepiece. Respiratory protection

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Observe any medical surveillance requirements. Always observe good personal hygiene Hygiene measures measures, such as washing after handling the material and before eating, drinking, and/or

Environmental exposure

point and boiling range

controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid.
Form Liquid.

Color Red., Grey or Pale straw-yellow

Odor None.

Melting point/freezing point 3110 °F (1710 °C) Boiling point or initial boiling 4226 °F (2330 °C)

Flash point Not available.

Auto-ignition temperature Not available.

Decomposition temperature Not available.

pH 7

Kinematic viscosity Not available.

Solubility

Solubility (water) insoluble in water

Partition coefficient Not available.

(n-octanol/water) (log value)

Vapor pressure -0,01 hPa estimated

Density and/or relative density

Density 2,64 g/cm3 estimated

Vapor density Not available.

Particle characteristics Not available.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No relevant additional information available.

9.2.2. Other safety characteristics

Specific gravity 2,64 estimated

2,57

SECTION 10: Stability and reactivity

10.1. ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoidContact with incompatible materials.

10.5. Incompatible materials Powerful oxidizers. Chlorine.

10.6. Hazardous No hazardous decomposition products are known.

decomposition products

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms Coughing.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Not known.

Skin corrosion/irritation

Serious eye damage/eye irritation

Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible.

Respiratory sensitization

Skin sensitization

Due to partial or complete lack of data the classification is not possible. Due to partial or complete lack of data the classification is not possible.

Germ cell mutagenicity

Due to partial or complete lack of data the classification is not possible.

Carcinogenicity

May cause cancer.

Hungary. 26/2000 EüM Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)

Glass, Oxide (CAS 65997-17-3)

IARC Monographs. Overall Evaluation of Carcinogenicity

Crystalline SiO2 (Quartz) (CAS 14808-60-7) 1 Carcinogenic to humans.

Slovenia. CMR. Protection of workers from exposure to carcinogen and mutagen agents (ULRS 101/2005, as amended)

Glass, Oxide (CAS 65997-17-3) Carcinogenic, Category 1B.

Reproductive toxicity

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Due to partial or complete lack of data the classification is not possible.

Mixture versus substance

information

No information available.

11.2. Information on other hazards

Endocrine disrupting

properties

This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than

0.1% by weight.

Not available. Other information

SECTION 12: Ecological information

12.1. Toxicity Based on available data, the classification criteria are not met for hazardous to the aquatic

environment.

12.2. Persistence and

degradability

No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative potential

Partition coefficient

Not available

No data available.

n-octanol/water (log Kow)

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil 12.5. Results of PBT and vPvB

assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting

properties

This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No

1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than 0.1% by weight.

12.7. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Since emptied containers may retain product residue, follow label warnings even after container is Contaminated packaging

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EU waste code The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of Disposal methods/information

contents/container in accordance with local/regional/national/international regulations.

Dispose in accordance with all applicable regulations. Special precautions

SECTION 14: Transport information

ADR

14.1. UN number Not regulated as dangerous goods.14.2. UN proper shipping Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk -

Hazard No. (ADR) Not assigned.
Tunnel restriction code Not assigned.

14.4. Packing group - **14.5. Environmental hazards** No.

14.6. Special precautions Not assigned.

for user

RID

14.1. UN number Not regulated as dangerous goods.14.2. UN proper shipping Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk 14.4. Packing group 14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

ADN

14.1. UN number Not regulated as dangerous goods.14.2. UN proper shipping Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk 14.4. Packing group 14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

IATA

14.1. UN number Not regulated as dangerous goods.14.2. UN proper shipping Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk 14.4. Packing group 14.5. Environmental hazards No.

14.6. Special precautions Not assigned.

for user

IMDG

14.1. UN number Not regulated as dangerous goods.14.2. UN proper shipping Not regulated as dangerous goods.

name

14.3. Transport hazard class(es)

Class Not assigned.

Subsidiary risk 14.4. Packing group 14.5. Environmental hazards
Marine pollutant No.

EmS Not assigned.

14.6. Special precautions Not assigned.

for user

14.7. Maritime transport in bulk Not established.

according to IMO instruments

Material name: Chockfast Red Aggregate

NOL ESTADIISHEU.

SDS EU

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

UFI:

Austria: 86D0-Q0TW-2001-R7UU Belgium: 86D0-Q0TW-2001-R7UU Bulgaria: 86D0-Q0TW-2001-R7UU Croatia: 86D0-Q0TW-2001-R7UU Cyprus: 86D0-Q0TW-2001-R7UU

Czech Republic: 86D0-Q0TW-2001-R7UU Denmark: 86D0-Q0TW-2001-R7UU Estonia: 86D0-Q0TW-2001-R7UU EU: 86D0-Q0TW-2001-R7UU Finland: 86D0-Q0TW-2001-R7UU France: 86D0-Q0TW-2001-R7UU Germany: 86D0-Q0TW-2001-R7UU Greece: 86D0-Q0TW-2001-R7UU Hungary: 86D0-Q0TW-2001-R7UU Iceland: 86D0-Q0TW-2001-R7UU Ireland: 86D0-Q0TW-2001-R7UU Italy: 86D0-Q0TW-2001-R7UU Latvia: 86D0-Q0TW-2001-R7UU Lithuania: 86D0-Q0TW-2001-R7UU Luxembourg: 86D0-Q0TW-2001-R7UU Malta: 86D0-Q0TW-2001-R7UU Netherlands: 86D0-Q0TW-2001-R7UU Norway: 86D0-Q0TW-2001-R7UU Poland: 86D0-Q0TW-2001-R7UU

Poland: 86D0-Q0TW-2001-R7UU Portugal: 86D0-Q0TW-2001-R7UU Romania: 86D0-Q0TW-2001-R7UU Slovakia: 86D0-Q0TW-2001-R7UU Slovenia: 86D0-Q0TW-2001-R7UU Spain: 86D0-Q0TW-2001-R7UU Sweden: 86D0-Q0TW-2001-R7UU

Authorizations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered

Glass, Oxide (CAS 65997-17-3)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Crystalline SiO2 (Quartz) (CAS 14808-60-7) Glass, Oxide (CAS 65997-17-3)

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006, as amended.

National regulations

According to Directive 92/85/EEC as amended, pregnant women should not work with the product, if there is the least risk of exposure.

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended. Follow national regulation on the protection of workers from the risks of exposure to carcinogens and mutagens at work, in accordance with Directive 2004/37/EC, as amended.

France regulations

France INRS Table of Occupational Diseases

Crystalline SiO2 (Quartz) (CAS 14808-60-7)

Affections consécutives à l'inhalation de poussières minérales renfermant de la silicecristalline (quartz, cristobalite, tridymite), des silicates cristallins (kaolin, talc), du graphite ou de la houille

Product registration number

Austria UFI: 86D0-Q0TW-2001-R7UU **Belgium** UFI: 86D0-Q0TW-2001-R7UU **Czech Republic** UFI: 86D0-Q0TW-2001-R7UU **Denmark** UFI: 86D0-Q0TW-2001-R7UU **European Union** UFI: 86D0-Q0TW-2001-R7UU UFI: 86D0-Q0TW-2001-R7UU **Finland** UFI: 86D0-Q0TW-2001-R7UU France UFI: 86D0-Q0TW-2001-R7UU Germany Greece UFI: 86D0-Q0TW-2001-R7UU Hungary UFI: 86D0-Q0TW-2001-R7UU Italy UFI: 86D0-Q0TW-2001-R7UU **Netherlands** UFI: 86D0-Q0TW-2001-R7UU Norway UFI: 86D0-Q0TW-2001-R7UU **Poland** UFI: 86D0-Q0TW-2001-R7UU UFI: 86D0-Q0TW-2001-R7UU **Portugal** UFI: 86D0-Q0TW-2001-R7UU Slovakia UFI: 86D0-Q0TW-2001-R7UU Slovenia UFI: 86D0-Q0TW-2001-R7UU Spain Sweden UFI: 86D0-Q0TW-2001-R7UU **Switzerland** UFI: 86D0-Q0TW-2001-R7UU

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert – Germany).

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization. IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MAC: Maximum Allowed Concentration.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value.

vPvB: Very persistent and very bioaccumulative.

References Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements, which are not written out in full under sections 2 to 15

H350 May cause cancer.

H351 Suspected of causing cancer.

Material name: Chockfast Red Aggregate

SDS FII

Revision information Training information Disclaimer

None.

Follow training instructions when handling this material.

ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.

Material name: Chockfast Red Aggregate

SDS EU 14 / 14 GP107A Version #: 19 Revision date: 07-26-2023 Issue date: 02-28-2013

SAFETY DATA SHEET

Version #: 14

Issue date: 02-12-2014 Revision date: 07-27-2023 Supersedes date: 07-12-2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation

of the mixture

Synonyms

Chockfast Red Hardener

1.2. Relevant identified uses of the substance or mixture and uses advised against

Registration number

None.

SKU# GP107H

Identified usesNot available.Uses advised againstNone known.

1.3. Details of the supplier of the safety data sheet

Company Name ITW Performance Polymers

Address Bay 150

Shannon Industrial Estate

Co. Clare Ireland V14 DF82

Contact Person Customer Service
Telephone Number 353(61)771500

353(61)471285

Email customerservice.shannon@itwpp.com

Emergency Phone Number 44(0) 1235 239 670 (24 hours)

1.4. Emergency telephone number

General in EU 112 (Available 24 hours a day. SDS/Product information may not be available for

the Emergency Service.)

Austria National Poisons

Information Center

+431 406 4343 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Belgium National Poisons

Control Center

070 245 245 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Bulgaria National

Toxicological Information

Center

+359 2 9154 233 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Croatia Poisons Information Center

+385 1 2348 342 (Hours of operation not provided. SDS/Product information may

not be available for the Emergency Service.)

Cyprus Poison Center 1401 (Available 24 hours a day. SDS/Product information may not be available

for the Emergency Service.)

Czech Republic National Poisons Information

Center

Control Center

+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Denmark National Poisons

+45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Estonia National Poisons Information Center

16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be

available for the Emergency Service.)

Finland National Poison Information Center

(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

France National Poisons Control Center ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Material name: Chockfast Red Hardener

SDS EU

1.4. Emergency telephone number

Greece Poison Information Centre

(0030) 2107793777 (Available 24 hours a day. SDS/Product information may not

be available for the Emergency Service.)

Hungary National Emergency Phone Number +36-80-201-199 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Iceland Poison Center

(+354) 543 2222 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Latvia Emergency medical

aid

+371 67042473 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Information Center Lithuania Neatidėliotina informacija apsinuodijus

Latvia Poison and Drug

+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Malta Accident and **Emergency Department**

2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Netherlands National Poisons Information Center (NVIC)

NVIC: +31 (0)88 755 8000 (Only for the purpose of informing medical personnel

in cases of acute intoxications)

Norway Norwegian Poison Information Center

22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Portugal Poison Center

800 250 250 (Available 24 hours a day. SDS/Product information may not be

Romania Biroul RSI si Informare Toxicologica available for the Emergency Service.)

113

021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be

available for the Emergency Service.)

Slovakia National Toxicological Information Center

+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Spain Toxicology Information Service + 34 91 562 04 20 (Available 24 hours a day. SDS/Product information may not

be available for the Emergency Service.)

Sweden National Poison Information Center

112 - and ask for Poison Information (Available 24 hours a day. SDS/Product

information may not be available for the Emergency Service.)

Switzerland Tox Info Suisse

145 (Available 24 hours a day. SDS/Product information may not be available for

the Emergency Service.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Acute toxicity, oral Category 4 H302 - Harmful if swallowed. Acute toxicity, dermal Category 4 H312 - Harmful in contact with skin.

Skin corrosion/irritation H314 - Causes severe skin burns Category 1B

and eye damage.

Serious eye damage/eye irritation Category 1 H318 - Causes serious eye

damage.

Skin sensitization Category 1 H317 - May cause an allergic skin

reaction.

Environmental hazards

long-term aquatic hazard

H411 - Toxic to aquatic life with Hazardous to the aquatic environment, Category 2

long lasting effects.

2.2. Label elements

Material name: Chockfast Red Hardener

Label according to Regulation (EC) No. 1272/2008 as amended

UFI:

Austria: N4D0-704G-R00H-3W8S Belgium: N4D0-704G-R00H-3W8S Bulgaria: N4D0-704G-R00H-3W8S Croatia: N4D0-704G-R00H-3W8S Cyprus: N4D0-704G-R00H-3W8S

Czech Republic: N4D0-704G-R00H-3W8S Denmark: N4D0-704G-R00H-3W8S Estonia: N4D0-704G-R00H-3W8S EU: N4D0-704G-R00H-3W8S Finland: N4D0-704G-R00H-3W8S France: N4D0-704G-R00H-3W8S Germany: N4D0-704G-R00H-3W8S Greece: N4D0-704G-R00H-3W8S Hungary: N4D0-704G-R00H-3W8S Iceland: N4D0-704G-R00H-3W8S Ireland: N4D0-704G-R00H-3W8S Italy: N4D0-704G-R00H-3W8S Latvia: N4D0-704G-R00H-3W8S Lithuania: N4D0-704G-R00H-3W8S Luxembourg: N4D0-704G-R00H-3W8S Malta: N4D0-704G-R00H-3W8S

Malta: N4D0-704G-R00H-3W8S Netherlands: N4D0-704G-R00H-3W8S Norway: N4D0-704G-R00H-3W8S Poland: N4D0-704G-R00H-3W8S Portugal: N4D0-704G-R00H-3W8S Romania: N4D0-704G-R00H-3W8S Slovakia: N4D0-704G-R00H-3W8S Slovenia: N4D0-704G-R00H-3W8S Spain: N4D0-704G-R00H-3W8S

Contains: 2,2'-iminodiethylamine; diethylenetriamine, 3,6,9-triazaundecamethylenediamine;

tetraethylenepentamine, Amidoamine

Sweden: N4D0-704G-R00H-3W8S

Hazard pictograms







Signal word Danger

Hazard statements

H302 Harmful if swallowed.
H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention

P260 Do not breathe mist/vapors.
P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

P330 Rinse mouth.

P301 + P330 + P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water/shower.

P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

P333 + P313 If skin irritation or rash occurs: Ğet medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

P391 Collect spillage.

Storage

P405 Store locked up.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

100% of the mixture consists of component(s) of unknown acute hazards to the aquatic Supplemental label information

environment.

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation 2.3. Other hazards

(EC) No 1907/2006, Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a

concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Amidoamine	60 - 100	68953-36-6 273-201-6	-	-	
Classification:	-				
3,6,9-triazaundecamethylenediamine; tetraethylenepentamine	5 - < 10	112-57-2 203-986-2	-	612-060-00-0	
	mg/kg bw)		ng/kg bw), Acute Tox. 4;H31; , Eye Dam. 1;H318, Skin Sei		
2,2'-iminodiethylamine; diethylenetriamine	3 - < 5	111-40-0 203-865-4	01-2119473793-27-0000	612-058-00-X	
Classification:			ng/kg bw), Acute Tox. 4;H31: , Eye Dam. 1;H318, Skin Sel		
Other components below reportable levels	5 - < 10				

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Union workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

The full text for all H-statements is displayed in section 16. **Composition comments**

SECTION 4: First aid measures

Ensure that medical personnel are aware of the material(s) involved, and take precautions to **General information**

protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated

clothing before reuse.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Chemical burns

must be treated by a physician. Get medical advice/attention if you feel unwell. In case of eczema

or other skin disorders: Seek medical attention and take along these instructions. Wash

contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If Ingestion

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

4.2. Most important symptoms and effects, both acute and

delayed

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

4.3. Indication of any immediate medical attention and special treatment needed Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Material name: Chockfast Red Hardener GP107H Version #: 14 Revision date: 07-27-2023 Issue date: 02-12-2014 Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting procedures

Move containers from fire area if you can do so without risk.

Specific methods Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

For emergency responders

Keep unnecessary personnel away. Ensure adequate ventilation. Avoid breathing mist/vapors. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up Prevent product from entering drains.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Do not breathe mist/vapors. Do not get in eyes, on skin, or on clothing. Do not taste or swallow. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- E2 Hazardous to the Aquatic Environment Chronic (Lower-tier requirements = 200 tons;

Upper-tier requirements = 500 tons)

7.3. Specific end use(s) Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Components	Туре	Value	
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	MAK	4 mg/m3	
		1 ppm	

Material name: Chockfast Red Hardener

Chemical agents, as amended Components	Туре	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA	4,3 mg/m3
		1 ppm
Bulgaria OFI's Ordinance No 13	on protection of workers agai	nst risks of exposure to chemical agents at work, as
amended	on protoction of workers again	not note of exposure to enemical agente at work, as
Components	Туре	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA	4 mg/m3
Croatia. OELs (GVI). Regulation o	on Protection of Workers again	st Exposure to Dangerous Chemicals at Work, OELs an
Biological Limit Values, Annex I (*	
Components	Туре	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	MAC	4,3 mg/m3
		1 ppm
Cyprus. OELs. Control of factory	atmosphere and dangerous su	ubstances in factories regulation, PI 311/73, as amended
Components	Туре	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA	4 mg/m3
111-40-0)		
		1 ppm
Czach Ranublic Occupational av	vnosura limit values of chemics	• •
		1 ppm als at work (Decree on protection of health at work,
361/2007, Annex 2, Part A & Anne		• •
361/2007, Annex 2, Part A & Anne Components 2,2'-iminodiethylamine; diethylenetriamine (CAS	ex 3, Part A, as amended)	als at work (Decree on protection of health at work,
361/2007, Annex 2, Part A & Anne Components 2,2'-iminodiethylamine; diethylenetriamine (CAS	ex 3, Part A, as amended) Type	als at work (Decree on protection of health at work,
361/2007, Annex 2, Part A & Anne Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	ex 3, Part A, as amended) Type Ceiling TWA	Value 8 mg/m3 4 mg/m3
361/2007, Annex 2, Part A & Anne Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Denmark. Work Environment Aut	ex 3, Part A, as amended) Type Ceiling TWA	Value 8 mg/m3 4 mg/m3
361/2007, Annex 2, Part A & Anne Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Denmark. Work Environment Aut Components 2,2'-iminodiethylamine; diethylenetriamine (CAS	ex 3, Part A, as amended) Type Ceiling TWA thority. Exposure Limits for Su	Value 8 mg/m3 4 mg/m3 bstances & Materials, Annex 2
361/2007, Annex 2, Part A & Anne Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Denmark. Work Environment Aut Components 2,2'-iminodiethylamine; diethylenetriamine (CAS	ex 3, Part A, as amended) Type Ceiling TWA thority. Exposure Limits for Su Type	Value 8 mg/m3 4 mg/m3 bstances & Materials, Annex 2 Value 4 mg/m3
361/2007, Annex 2, Part A & Anne Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Denmark. Work Environment Aut Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	ex 3, Part A, as amended) Type Ceiling TWA thority. Exposure Limits for Su Type TLV	Value 8 mg/m3 4 mg/m3 bstances & Materials, Annex 2 Value 4 mg/m3 1 ppm
361/2007, Annex 2, Part A & Anne Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Denmark. Work Environment Aut Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Estonia. OELs. Occupational Exp	ex 3, Part A, as amended) Type Ceiling TWA thority. Exposure Limits for Su Type TLV	Value 8 mg/m3 4 mg/m3 bstances & Materials, Annex 2 Value 4 mg/m3
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Denmark. Work Environment Aut Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Estonia. OELs. Occupational Exp Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 12,2'-iminodiethylamine; diethylenetriamine (CAS	Type Ceiling TWA Chority. Exposure Limits for Su Type TLV Dosure Limits of Hazardous Su	Value 8 mg/m3 4 mg/m3 bstances & Materials, Annex 2 Value 4 mg/m3 1 ppm bstances (Regulation No. 105/2001, Annex), as amended
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Denmark. Work Environment Aut Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Estonia. OELs. Occupational Exp Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 12,2'-iminodiethylamine; diethylenetriamine (CAS	Type Ceiling TWA Chority. Exposure Limits for Su Type TLV Dosure Limits of Hazardous Sul Type	Value 8 mg/m3 4 mg/m3 bstances & Materials, Annex 2 Value 4 mg/m3 1 ppm bstances (Regulation No. 105/2001, Annex), as amended Value 10 mg/m3
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Denmark. Work Environment Aut Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Estonia. OELs. Occupational Exp Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 12,2'-iminodiethylamine; diethylenetriamine (CAS	Type Ceiling TWA Chority. Exposure Limits for Su Type TLV Dosure Limits of Hazardous Sul Type	Value 8 mg/m3 bstances & Materials, Annex 2 Value 4 mg/m3 1 ppm bstances (Regulation No. 105/2001, Annex), as amended Value 10 mg/m3
361/2007, Annex 2, Part A & Anne Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Denmark. Work Environment Aut Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Estonia. OELs. Occupational Exp Components 2,2'-iminodiethylamine; diethylenetriamine (CAS	Type Ceiling TWA Chority. Exposure Limits for Su Type TLV Dosure Limits of Hazardous Sul Type STEL	Value 8 mg/m3 4 mg/m3 bstances & Materials, Annex 2 Value 4 mg/m3 1 ppm bstances (Regulation No. 105/2001, Annex), as amended Value 10 mg/m3 2 ppm 4,5 mg/m3
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Denmark. Work Environment Aut Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Estonia. OELs. Occupational Exp Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	cex 3, Part A, as amended) Type Ceiling TWA Chority. Exposure Limits for Su Type TLV Dosure Limits of Hazardous Sul Type STEL TWA	Value 8 mg/m3 4 mg/m3 bstances & Materials, Annex 2 Value 4 mg/m3 1 ppm bstances (Regulation No. 105/2001, Annex), as amended Value 10 mg/m3 2 ppm 4,5 mg/m3 1 ppm
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Denmark. Work Environment Aut Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Estonia. OELs. Occupational Exp Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Estonia. OELs. Occupational Exp Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	cex 3, Part A, as amended) Type Ceiling TWA Chority. Exposure Limits for Su Type TLV Dosure Limits of Hazardous Sul Type STEL TWA	Value 8 mg/m3 4 mg/m3 bstances & Materials, Annex 2 Value 4 mg/m3 1 ppm bstances (Regulation No. 105/2001, Annex), as amended Value 10 mg/m3 2 ppm 4,5 mg/m3 1 ppm
Gomponents 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Denmark. Work Environment Aut Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Estonia. OELs. Occupational Exp Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Finland. HTP-arvot, App 3., Bindi Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	Type Ceiling TWA Chority. Exposure Limits for Su Type TLV Cosure Limits of Hazardous Sul Type STEL TWA TWA	Value 8 mg/m3 4 mg/m3 bstances & Materials, Annex 2 Value 4 mg/m3 1 ppm bstances (Regulation No. 105/2001, Annex), as amended Value 10 mg/m3 2 ppm 4,5 mg/m3 1 ppm and Ministry of Health
Gomponents 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Denmark. Work Environment Aut Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Estonia. OELs. Occupational Exp Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Finland. HTP-arvot, App 3., Bindi Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	cex 3, Part A, as amended) Type Ceiling TWA Chority. Exposure Limits for Su Type TLV Dosure Limits of Hazardous Sul Type STEL TWA TWA ng Limit Values, Social Affairs Type	Als at work (Decree on protection of health at work, Value 8 mg/m3 4 mg/m3 bstances & Materials, Annex 2 Value 4 mg/m3 1 ppm bstances (Regulation No. 105/2001, Annex), as amended Value 10 mg/m3 2 ppm 4,5 mg/m3 1 ppm and Ministry of Health Value 13 mg/m3
Gomponents 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Denmark. Work Environment Aut Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Estonia. OELs. Occupational Exp Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Finland. HTP-arvot, App 3., Bindi Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	cex 3, Part A, as amended) Type Ceiling TWA Chority. Exposure Limits for Su Type TLV Dosure Limits of Hazardous Sul Type STEL TWA Ing Limit Values, Social Affairs Type STEL	Als at work (Decree on protection of health at work, Value 8 mg/m3 4 mg/m3 bstances & Materials, Annex 2 Value 4 mg/m3 1 ppm bstances (Regulation No. 105/2001, Annex), as amended Value 10 mg/m3 2 ppm 4,5 mg/m3 1 ppm and Ministry of Health Value 13 mg/m3 3 ppm
361/2007, Annex 2, Part A & Anne Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Denmark. Work Environment Aut Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	cex 3, Part A, as amended) Type Ceiling TWA Chority. Exposure Limits for Su Type TLV Dosure Limits of Hazardous Sul Type STEL TWA TWA ng Limit Values, Social Affairs Type	Als at work (Decree on protection of health at work, Value 8 mg/m3 4 mg/m3 bstances & Materials, Annex 2 Value 4 mg/m3 1 ppm bstances (Regulation No. 105/2001, Annex), as amended Value 10 mg/m3 2 ppm 4,5 mg/m3 1 ppm and Ministry of Health Value 13 mg/m3

2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	VME	4 mg/m3
Regulatory status: Indicativ	e limit (VL)	
Box later at the collection	P (((((((((((((((((((1 ppm
	e limit (VL)	
Greece. OELs, Presidential Decre Components	e No. 307/1986, as amended Type	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA	4 mg/m3
		1 ppm
Hungary. OELs. Decree on protec Components	tion of workers exposed to ch Type	emical agents (5/2020. (II.6)), Annex 1&2, as amended Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	STEL	8 mg/m3
	TWA	4 mg/m3
Iceland. OELs. Regulation 390/200 Components	09 on Pollution Limits and Mea	asures to Reduce Pollution at the Workplace, as amende Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA	4,5 mg/m3
/		1 ppm
Ireland. OELVs, Schedules 1 & 2, Components	Code of Practice for Chemical Type	Agents and Carcinogens Regulations Value
2,2'-iminodiethylamine;	TWA	4 mg/m3
diethylenetriamine (CAS 111-40-0)		
		1 ppm
111-40-0)	81, 9 April 2008), as amended	1 ppm
111-40-0) Italy. OELs (Legislative Decree n.	81, 9 April 2008), as amended Type	1 ppm Value
Italy. OELs (Legislative Decree n.: Components 2,2'-iminodiethylamine; diethylenetriamine (CAS		
Italy. OELs (Legislative Decree n. Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Lithuania. OELs. Occupational Ex	Type TWA	Value
Italy. OELs (Legislative Decree n.: Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Lithuania. OELs. Occupational ExV-824/A1-389), as amended	Type TWA	Value 1 ppm
Italy. OELs (Legislative Decree n.s. Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Lithuania. OELs. Occupational Ex V-824/A1-389), as amended Components 2,2'-iminodiethylamine; diethylenetriamine (CAS	Type TWA cposure Limit Values for Chem	Value 1 ppm nical Substances (Hygiene Norm HN 23:2011; Order No.
Italy. OELs (Legislative Decree n.s. Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Lithuania. OELs. Occupational Ex V-824/A1-389), as amended Components 2,2'-iminodiethylamine; diethylenetriamine (CAS	Type TWA Exposure Limit Values for Chem Type STEL	Value 1 ppm sical Substances (Hygiene Norm HN 23:2011; Order No. Value 10 mg/m3 2 ppm
Italy. OELs (Legislative Decree n.s. Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Lithuania. OELs. Occupational Ex V-824/A1-389), as amended Components 2,2'-iminodiethylamine; diethylenetriamine (CAS	Type TWA	Value 1 ppm sical Substances (Hygiene Norm HN 23:2011; Order No. Value 10 mg/m3 2 ppm 4,5 mg/m3
Italy. OELs (Legislative Decree n.s. Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Lithuania. OELs. Occupational Extended V-824/A1-389), as amended Components 2,2'-iminodiethylamine; diethylenetriamine (CAS	Type TWA Exposure Limit Values for Chem Type STEL	Value 1 ppm sical Substances (Hygiene Norm HN 23:2011; Order No. Value 10 mg/m3
Italy. OELs (Legislative Decree n.: Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Lithuania. OELs. Occupational Ex V-824/A1-389), as amended Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	Type TWA rposure Limit Values for Chem Type STEL TWA Measures and Limit Values for actors, as amended	Value 1 ppm nical Substances (Hygiene Norm HN 23:2011; Order No. Value 10 mg/m3 2 ppm 4,5 mg/m3 1 ppm Physical and Chemical Factors in Work Environment an
Italy. OELs (Legislative Decree n.: Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Lithuania. OELs. Occupational Extended Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Norway. Regulation No. 1358 on Margetion Groups for Biological Facomponents	Type TWA Reposure Limit Values for Chem Type STEL TWA Measures and Limit Values for actors, as amended Type	Value 1 ppm sical Substances (Hygiene Norm HN 23:2011; Order No. Value 10 mg/m3 2 ppm 4,5 mg/m3 1 ppm Physical and Chemical Factors in Work Environment an
Italy. OELs (Legislative Decree n. Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Lithuania. OELs. Occupational Ex V-824/A1-389), as amended Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	Type TWA rposure Limit Values for Chem Type STEL TWA Measures and Limit Values for actors, as amended	Value 1 ppm nical Substances (Hygiene Norm HN 23:2011; Order No. Value 10 mg/m3 2 ppm 4,5 mg/m3 1 ppm Physical and Chemical Factors in Work Environment an

1286/2018, Annex 1) Components	Туре	Value	
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	STEL	12 mg/m3	
,	TWA	4 mg/m3	
Portugal. VLEs. Norm on Components	occupational exposure to chemical aç Type	ents (NP 1796-2014) Value	
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA	1 ppm	
	ues of Chemical Agents at Workplace	(Regulation 1.218/2006, M.O 845, Annex 1, 3&4,	as
amended) Components	Туре	Value	
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	STEL	4 mg/m3	
111-40-0)		1 ppm	
	TWA	2 mg/m3	
		0,5 ppm	
Spain. OELs. INSST, Límit (VLAs)	tes de Exposición Profesional Para Aç	gentes Químicos, Table 1-Valores Límites Ambie	ntales
Components	Туре	Value	
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA	4,3 mg/m3	
,		1 ppm	
Sweden. OELs (Annex 1).	Work Environment Authority (AV), Oc	cupational Exposure Limit Values (AFS 2018:1),	as
amended		cupational Exposure Limit Values (AFS 2018:1),	as
amended Components	Туре	Value	as
amended Components 2,2'-iminodiethylamine; diethylenetriamine (CAS			as
amended Components 2,2'-iminodiethylamine; diethylenetriamine (CAS	Туре	Value	as
amended Components 2,2'-iminodiethylamine; diethylenetriamine (CAS	Туре	Value 10 mg/m3	as
amended Components 2,2'-iminodiethylamine; diethylenetriamine (CAS	Type STEL	Value 10 mg/m3 2 ppm	as
amended Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Switzerland. SUVA Grenze	Type STEL TWA werte am Arbeitsplatz: Aktuelle MAK-	Value 10 mg/m3 2 ppm 4,5 mg/m3 1 ppm	as
amended Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Switzerland. SUVA Grenze Components	Type STEL TWA werte am Arbeitsplatz: Aktuelle MAK-1 Type	Value 10 mg/m3 2 ppm 4,5 mg/m3 1 ppm Verte Value	as
amended Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Switzerland. SUVA Grenze	Type STEL TWA werte am Arbeitsplatz: Aktuelle MAK-	Value 10 mg/m3 2 ppm 4,5 mg/m3 1 ppm	as
amended Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Switzerland. SUVA Grenzy Components 2,2'-iminodiethylamine; diethylenetriamine (CAS	Type STEL TWA werte am Arbeitsplatz: Aktuelle MAK-1 Type	Value 10 mg/m3 2 ppm 4,5 mg/m3 1 ppm Verte Value	as
amended Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Switzerland. SUVA Grenzy Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	Type STEL TWA werte am Arbeitsplatz: Aktuelle MAK-1 Type	Value 10 mg/m3 2 ppm 4,5 mg/m3 1 ppm Verte Value 4 mg/m3 1 ppm	as
amended Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Switzerland. SUVA Grenzy Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) UK. OELs. Workplace Exp Components 2,2'-iminodiethylamine; diethylenetriamine (CAS	Type STEL TWA werte am Arbeitsplatz: Aktuelle MAK-1 Type TWA TWA oosure Limits (WELs) (EH40/2005 (Fou	Value 10 mg/m3 2 ppm 4,5 mg/m3 1 ppm Verte Value 4 mg/m3 1 ppm rth Edition 2020)), Table 1	as
amended Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Switzerland. SUVA Grenzy Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) UK. OELs. Workplace Exp Components 2,2'-iminodiethylamine;	Type STEL TWA werte am Arbeitsplatz: Aktuelle MAK-Type TWA TWA cosure Limits (WELs) (EH40/2005 (Fourtype)	Value 10 mg/m3 2 ppm 4,5 mg/m3 1 ppm Verte Value 4 mg/m3 1 ppm rth Edition 2020)), Table 1 Value	as
amended Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Switzerland. SUVA Grenzy Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) UK. OELs. Workplace Exp Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	Type STEL TWA werte am Arbeitsplatz: Aktuelle MAK-Type TWA TWA cosure Limits (WELs) (EH40/2005 (Fourtype)	Value 10 mg/m3 2 ppm 4,5 mg/m3 1 ppm Verte Value 4 mg/m3 1 ppm rth Edition 2020)), Table 1 Value 4,3 mg/m3 1 ppm	as
amended Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Switzerland. SUVA Grenzy Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) UK. OELs. Workplace Exp Components 2,2'-iminodiethylamine; diethylenetriamine (CAS	Type STEL TWA werte am Arbeitsplatz: Aktuelle MAK-Type TWA rosure Limits (WELs) (EH40/2005 (Fourtype) TWA	Value 10 mg/m3 2 ppm 4,5 mg/m3 1 ppm Verte Value 4 mg/m3 1 ppm rth Edition 2020)), Table 1 Value 4,3 mg/m3 1 ppm or the ingredient(s).	as
amended Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) Switzerland. SUVA Grenze Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) UK. OELs. Workplace Exp Components 2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0) ogical limit values ommended monitoring	Type STEL TWA werte am Arbeitsplatz: Aktuelle MAK-1 Type TWA TWA TWA TWA TWA No biological exposure limits noted for the state of the state	Value 10 mg/m3 2 ppm 4,5 mg/m3 1 ppm Verte Value 4 mg/m3 1 ppm rth Edition 2020)), Table 1 Value 4,3 mg/m3 1 ppm or the ingredient(s).	as

concentrations (PNECs)

Exposure guidelines

Belgium OELs: Skin designation

2,2'-iminodiethylamine; diethylenetriamine Can be absorbed through the skin.

(CAS 111-40-0)

Cyprus OEL: Skin designation

2,2'-iminodiethylamine; diethylenetriamine Can be absorbed through the skin.

(CAS 111-40-0)

Denmark GV: Skin designation

2,2'-iminodiethylamine; diethylenetriamine Can be absorbed through the skin.

(CAS 111-40-0)

Estonia OELs: Skin designation

2,2'-iminodiethylamine; diethylenetriamine Can be absorbed through the skin.

(CAS 111-40-0)

Finland Exposure Limit Values: Skin designation

2,2'-iminodiethylamine; diethylenetriamine Can be absorbed through the skin.

(CAS 111-40-0)

Greece OEL: Skin designation

2,2'-iminodiethylamine; diethylenetriamine Can be absorbed through the skin.

(CAS 111-40-0)

Hungary OELs: Skin designation

2,2'-iminodiethylamine; diethylenetriamine Can be absorbed through the skin.

(CAS 111-40-0)

Iceland OELs: Skin designation

2,2'-iminodiethylamine; diethylenetriamine Can be absorbed through the skin.

(CAS 111-40-0)

Ireland Exposure Limit Values: Skin designation

2,2'-iminodiethylamine; diethylenetriamine Can be absorbed through the skin.

(CAS 111-40-0)

Italy OELs: Skin designation

2.2'-iminodiethylamine; diethylenetriamine Danger of cutaneous absorption

(CAS 111-40-0)

Lithuania OELs: Skin designation

2,2'-iminodiethylamine; diethylenetriamine Can be absorbed through the skin.

(CAS 111-40-0)

Norway Exposure Limit Values: Skin designation

2,2'-iminodiethylamine; diethylenetriamine Can be absorbed through the skin.

(CAS 111-40-0)

Portugal VLEs Norm on Occupational Exposure: Skin designation

2,2'-iminodiethylamine; diethylenetriamine Can be absorbed through the skin.

(CAS 111-40-0)

Romania OELs: Skin designation

2,2'-iminodiethylamine; diethylenetriamine Can be absorbed through the skin.

(CAS 111-40-0)

Spain OELs: Skin designation

2,2'-iminodiethylamine; diethylenetriamine Can be absorbed through the skin.

(CAS 111-40-0)

Sweden Threshold Limit Values: Skin designation

2,2'-iminodiethylamine; diethylenetriamine Can be absorbed through the skin.

(CAS 111-40-0)

Switzerland SUVA Limit Values at the Workplace: Skin designation

2,2'-iminodiethylamine; diethylenetriamine Can be absorbed through the skin.

(CAS 111-40-0)

UK EH40 WEL: Skin designation

2,2'-iminodiethylamine; diethylenetriamine Can be absorbed through the skin.

(CAS 111-40-0)

8.2. Exposure controls

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency

shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

General information

Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective

Material name: Chockfast Red Hardener

equipment.

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Eye/face protection Wear safety glasses with side shields (or goggles) and a face shield. Face shield is

recommended.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

- Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Keep away from food and drink. Always observe good personal hygiene measures, such as

washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing

should not be allowed out of the workplace.

Environmental exposure

controls

Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Form

Liquid.

Color

Amber.

Odor

Melting point/freezing point

Not available.

Boiling point or initial boiling point and boiling range

>737,6 °F (>392 °C)

Flammability Not applicable.

Flash point >200,0 °F (>93,3 °C) Closed Cup Auto-ignition temperature 609,8 °F (321 °C) estimated

Decomposition temperature Not available.

pH >7

Kinematic viscosity Not available

Solubility

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water) (log value)

Vapor pressure 3,6 mm Hg @ 70F

Density and/or relative density

Density0,95 g/cm3Vapor densityNot available.Particle characteristicsNot available.

9.2. Other information

9.2.1. Information with regard Not ophysical hazard classes

No relevant additional information available.

9.2.2. Other safety characteristics

Specific gravity 0,95

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stabilityMaterial is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Avoid temperatures exceeding the flash point. Contact with incompatible materials.

10.5. Incompatible materials Peroxides. Phenols.

10.6. Hazardous

No hazardous decomposition products are known.

decomposition products

Material name: Chockfast Red Hardener
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SECTION 11: Toxicological information

Occupational exposure to the substance or mixture may cause adverse effects. **General information**

Information on likely routes of exposure

Inhalation May cause irritation to the respiratory system. Prolonged inhalation may be harmful.

Causes severe skin burns. Harmful in contact with skin. May cause an allergic skin reaction. Skin contact

Causes serious eye damage. Eye contact

Ingestion Causes digestive tract burns. Harmful if swallowed

Symptoms Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may

include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Harmful in contact with skin. Harmful if swallowed. Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory sensitization Based on available data, the classification criteria are not met.

May cause an allergic skin reaction. Skin sensitization

Due to partial or complete lack of data the classification is not possible. Germ cell mutagenicity Carcinogenicity Due to partial or complete lack of data the classification is not possible.

Not applicable. Reproductive toxicity

Specific target organ toxicity -

single exposure

Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

repeated exposure

Due to partial or complete lack of data the classification is not possible.

Aspiration hazard Due to partial or complete lack of data the classification is not possible.

Mixture versus substance

information

No information available.

11.2. Information on other hazards

Endocrine disrupting

properties

This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than

0.1% by weight.

Other information Not available.

SECTION 12: Ecological information

Toxic to aquatic life with long lasting effects. Due to partial or complete lack of data the 12.1. Toxicity

classification for hazardous to the aquatic environment, acute hazard, is not possible.

12.2. Persistence and

degradability

No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative potential

Partition coefficient

n-octanol/water (log Kow)

3,6,9-triazaundecamethylenediamine; tetraethylenepentamine 1.503

Bioconcentration factor (BCF) Not available. 12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB

assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting

properties

This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than

0.1% by weight.

12.7. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Material name: Chockfast Red Hardener GP107H Version #: 14 Revision date: 07-27-2023 Issue date: 02-12-2014 **Residual waste** Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal

EU waste codeThe Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Special precautionsDispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN1760

14.2. UN proper shipping CORROSIVE LIQUID, N.O.S. (Amidoamaine)

name

14.3. Transport hazard class(es)

Class 8
Subsidiary risk Label(s) 8
Hazard No. (ADR) 80
Tunnel restriction code E
14.4. Packing group III
14.5. Environmental hazards No.

14.6. Special precautions

Read safety instructions, SDS and emergency procedures before handling.

for user

RID

14.1. UN number UN1760

14.2. UN proper shipping CORROSIVE LIQUID, N.O.S. (Amidoamine)

name

14.3. Transport hazard class(es)

Class 8
Subsidiary risk Label(s) 8
14.4. Packing group III
14.5. Environmental hazards No.

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

ADN

14.1. UN number UN1760

14.2. UN proper shipping Corrosive Liquid, N.o.s. (Amidoamine)

name

14.3. Transport hazard class(es)

Class 8
Subsidiary risk Label(s) 8
14.4. Packing group III
14.5. Environmental hazards No.

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

IATA

14.1. UN number UN1760

14.2. UN proper shipping Corrosive liquid, n.o.s. (Amidoamine)

name

14.3. Transport hazard class(es)

Class 8
Subsidiary risk
14.4. Packing group III

14.5. Environmental hazards No.
ERG Code 8L

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

Other information

Passenger and cargo

aircraft

Allowed with restrictions.

Cargo aircraft only

Allowed with restrictions.

IMDG

14.1. UN number UN1760

14.2. UN proper shipping CORROSIVE LIQUID, N.O.S. (Amidoamine)

name

14.3. Transport hazard class(es)

8 Class Subsidiary risk Ш 14.4. Packing group 14.5. Environmental hazards Marine pollutant No.

F-A, S-B **EmS**

14.6. Special precautions

Read safety instructions, SDS and emergency procedures before handling.

for user

14.7. Maritime transport in bulk

Not established.

according to IMO instruments



SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

Material name: Chockfast Red Hardener

SDS FIL

GP107H Version #: 14 Revision date: 07-27-2023 Issue date: 02-12-2014

UFI:

Austria: N4D0-704G-R00H-3W8S Belgium: N4D0-704G-R00H-3W8S Bulgaria: N4D0-704G-R00H-3W8S Croatia: N4D0-704G-R00H-3W8S Cyprus: N4D0-704G-R00H-3W8S

Czech Republic: N4D0-704G-R00H-3W8S Denmark: N4D0-704G-R00H-3W8S Estonia: N4D0-704G-R00H-3W8S EU: N4D0-704G-R00H-3W8S Finland: N4D0-704G-R00H-3W8S France: N4D0-704G-R00H-3W8S Germany: N4D0-704G-R00H-3W8S Greece: N4D0-704G-R00H-3W8S Hungary: N4D0-704G-R00H-3W8S Iceland: N4D0-704G-R00H-3W8S Ireland: N4D0-704G-R00H-3W8S Italy: N4D0-704G-R00H-3W8S Latvia: N4D0-704G-R00H-3W8S Lithuania: N4D0-704G-R00H-3W8S Luxembourg: N4D0-704G-R00H-3W8S Malta: N4D0-704G-R00H-3W8S Netherlands: N4D0-704G-R00H-3W8S Norway: N4D0-704G-R00H-3W8S Poland: N4D0-704G-R00H-3W8S

Portugal: N4D0-704G-R00H-3W8S Romania: N4D0-704G-R00H-3W8S Slovakia: N4D0-704G-R00H-3W8S Slovenia: N4D0-704G-R00H-3W8S Spain: N4D0-704G-R00H-3W8S

Sweden: N4D0-704G-R00H-3W8S

Authorizations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended

ANNEX 1, PART 1 Categories of dangerous substances

Hazard categories in accordance with Regulation (EC) No 1272/2008

- E2 Hazardous to the Aquatic Environment Chronic

Other regulations

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

National regulations

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work, as amended. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

France regulations

France INRS Table of Occupational Diseases

Not regulated.

Product registration number

UFI: N4D0-704G-R00H-3W8S **Austria Belgium** UFI: N4D0-704G-R00H-3W8S **Czech Republic** UFI: N4D0-704G-R00H-3W8S UFI: N4D0-704G-R00H-3W8S Denmark **European Union** UFI: N4D0-704G-R00H-3W8S UFI: N4D0-704G-R00H-3W8S Finland **France** UFI: N4D0-704G-R00H-3W8S Germany UFI: N4D0-704G-R00H-3W8S UFI: N4D0-704G-R00H-3W8S Greece Hungary UFI: N4D0-704G-R00H-3W8S Italy UFI: N4D0-704G-R00H-3W8S **Netherlands** UFI: N4D0-704G-R00H-3W8S

UFI: N4D0-704G-R00H-3W8S Norway **Poland** UFI: N4D0-704G-R00H-3W8S **Portugal** UFI: N4D0-704G-R00H-3W8S Slovakia UFI: N4D0-704G-R00H-3W8S UFI: N4D0-704G-R00H-3W8S Slovenia Spain UFI: N4D0-704G-R00H-3W8S Sweden UFI: N4D0-704G-R00H-3W8S UFI: N4D0-704G-R00H-3W8S **Switzerland**

15.2. Chemical safety

assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland

Waterways.

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert - Germany).

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization. IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MAC: Maximum Allowed Concentration.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit. TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value.

vPvB: Very persistent and very bioaccumulative.

References

Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements, which are not written out in full under sections 2 to 15

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

Revision information

Physical & Chemical Properties: Multiple Properties

Training information

Follow training instructions when handling this material.

Disclaimer

ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.

Material name: Chockfast Red Hardener

SDS EU

GP107H Version #: 14 Revision date: 07-27-2023 Issue date: 02-12-2014

SAFETY DATA SHEET

Version # 20

Issue date: 02-28-2013 Revision date: 07-26-2023 Supersedes date: 07-12-2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name or designation

of the mixture

Address

Chockfast Red Resin

Registration number

None.

Synonyms

GP107R SKU#

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses Not available. Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

ITW Performance Polymers Company Name Bay 150

Shannon Industrial Estate

Co. Clare Ireland V14 DF82

Contact Person Customer Service Telephone Number 353(61)771500

353(61)471285

customerservice.shannon@itwpp.com **Fmail**

Emergency Phone Number 44(0) 1235 239 670 (24 hours)

1.4. Emergency telephone number

General in EU

112 (Available 24 hours a day. SDS/Product information may not be available for

the Emergency Service.)

Austria National Poisons

Information Center

+431 406 4343 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Belgium National Poisons

Control Center

070 245 245 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Bulgaria National

Toxicological Information

Center

+359 2 9154 233 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Croatia Poisons Information Center

+385 1 2348 342 (Hours of operation not provided. SDS/Product information may

not be available for the Emergency Service.)

Cyprus Poison Center

1401 (Available 24 hours a day. SDS/Product information may not be available

for the Emergency Service.)

Czech Republic National Poisons Information

Center

+420 224 919 293, or +420 224 915 402 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Denmark National Poisons

Control Center

+45 82 12 12 12 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Estonia National Poisons Information Center

16662 or abroad: (+372) 626 9390 (Monday 9:00AM to Saturday 9:00AM (closed on Sundays and on national holidays). SDS/Product information may not be

available for the Emergency Service.)

Finland National Poison Information Center

(09) 471 977 (direct) or (09) 4711 (exchange) (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

France National Poisons Control Center

ORFILA number (INRS): + 33 (0) 1 45 42 59 59 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Material name: Chockfast Red Resin

1.4. Emergency telephone number

Greece Poison Information Centre

(0030) 2107793777 (Available 24 hours a day. SDS/Product information may not

be available for the Emergency Service.)

Hungary National Emergency Phone Number +36-80-201-199 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Iceland Poison Center

(+354) 543 2222 (Available 24 hours a day. SDS/Product information may not be

available for the Emergency Service.)

Latvia Emergency medical

aid

Latvia Poison and Drug Information Center

+371 67042473 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Lithuania Neatidėliotina informacija apsinuodijus

+370 5 236 20 52 or +37068753378 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Malta Accident and **Emergency Department**

2545 4030 (Hours of operation not provided. SDS/Product information may not be available for the Emergency Service.)

Netherlands National Poisons Information Center (NVIC)

NVIC: +31 (0)88 755 8000 (Only for the purpose of informing medical personnel in cases of acute intoxications)

Norway Norwegian Poison Information Center

22 59 13 00 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Portugal Poison Center

800 250 250 (Available 24 hours a day. SDS/Product information may not be

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available for the Emergency Service.)

Romania Biroul RSI si Informare Toxicologica 021.318.36.06 (Available 8:00AM-3:00PM. SDS/Product information may not be available for the Emergency Service.)

Slovakia National Toxicological Information Center

+421 2 5477 4166 (Available 24 hours a day. SDS/Product information may not be available for the Emergency Service.)

Spain Toxicology Information Service + 34 91 562 04 20 (Available 24 hours a day. SDS/Product information may not

be available for the Emergency Service.)

Sweden National Poison Information Center

112 - and ask for Poison Information (Available 24 hours a day. SDS/Product

information may not be available for the Emergency Service.) **Switzerland Tox Info** 145 (Available 24 hours a day. SDS/Product information may not be available for

Suisse

the Emergency Service.)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Regulation (EC) No 1272/2008 as amended

Health hazards

Acute toxicity, dermal Category 4 H312 - Harmful in contact with skin. Skin corrosion/irritation Category 2 H315 - Causes skin irritation. Serious eye damage/eye irritation Category 2

Skin sensitization Category 1 H317 - May cause an allergic skin reaction.

Environmental hazards

Hazardous to the aquatic environment, H412 - Harmful to aquatic life with Category 3

long-term aquatic hazard long lasting effects.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Austria: 61D0-Q0F3-F001-EJPQ Belgium: 61D0-Q0F3-F001-EJPQ Bulgaria: 61D0-Q0F3-F001-EJPQ Croatia: 61D0-Q0F3-F001-EJPQ Cyprus: 61D0-Q0F3-F001-EJPQ

Czech Republic: 61D0-Q0F3-F001-EJPQ Denmark: 61D0-Q0F3-F001-EJPQ Estonia: 61D0-Q0F3-F001-EJPQ EU: 61D0-Q0F3-F001-EJPQ Finland: 61D0-Q0F3-F001-EJPQ France: 61D0-Q0F3-F001-EJPQ Germany: 61D0-Q0F3-F001-EJPQ Greece: 61D0-Q0F3-F001-EJPQ Hungary: 61D0-Q0F3-F001-EJPQ Iceland: 61D0-Q0F3-F001-EJPQ Ireland: 61D0-Q0F3-F001-EJPQ Italy: 61D0-Q0F3-F001-EJPQ Latvia: 61D0-Q0F3-F001-EJPQ Lithuania: 61D0-Q0F3-F001-EJPQ Luxembourg: 61D0-Q0F3-F001-EJPQ

Malta: 61D0-Q0F3-F001-EJPQ Netherlands: 61D0-Q0F3-F001-EJPQ Norway: 61D0-Q0F3-F001-EJPQ Poland: 61D0-Q0F3-F001-EJPQ Portugal: 61D0-Q0F3-F001-EJPQ Romania: 61D0-Q0F3-F001-EJPQ Slovakia: 61D0-Q0F3-F001-EJPQ

Slovenia: 61D0-Q0F3-F001-EJPQ Spain: 61D0-Q0F3-F001-EJPQ Sweden: 61D0-Q0F3-F001-EJPQ

Contains: Epoxy Resin: Reaction product of bisphenol A and epichlorohydrin (refer to epichlorohydrin),

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]

Hazard pictograms



Signal word Warning

Hazard statements

Harmful in contact with skin. H312 Causes skin irritation. H315

May cause an allergic skin reaction. H317

May be harmful if inhaled. H333

Harmful to aquatic life with long lasting effects. H412

Precautionary statements

Prevention

P261 Avoid breathing mist/vapors. P264 Wash thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace. P272

Avoid release to the environment. P273 Wear eye protection/face protection. P280 Wear protective gloves/protective clothing. P280

Response

IF ON SKIN: Wash with plenty of water. P302 + P352

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present P305 + P351 + P338

and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. P333 + P313 If eye irritation persists: Get medical advice/attention. P337 + P313 Take off contaminated clothing and wash it before reuse. P362 + P364

Not available. Storage

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations. P501

Supplemental label information

95% of the mixture consists of component(s) of unknown acute oral toxicity. 95% of the mixture consists of component(s) of unknown acute dermal toxicity. 99,5% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment.

Material name: Chockfast Red Resin

2.3. Other hazards

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation (EC) No 1907/2006, Annex XIII. The mixture does not contain any substances included in the list established in accordance with REACH Article 59(1) for having endocrine disrupting properties at a concentration equal to or greater than 0.1% by weight.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Epoxy Resin: Reaction product of bisphenol A and epichlorohydrin (refer to epichlorohydrin)	60 - 100	25068-38-6 -	01-2119456619-26-0000	-	
Classification	: Skin Irrit. 2	;H315, Eye Irrit. 2;H3	319, Skin Sens. 1;H317		
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	1 - 5	1330-20-7 215-535-7	-	601-022-00-9	#
Classification			l;H312;(ATE: 1100 mg/kg bv t. 2;H315, Aquatic Chronic 2		
ethylbenzene	< 1	100-41-4 202-849-4	-	601-023-00-4	#
Classification			l;H332;(ATE: 11 mg/l), Carc. H304, Aquatic Chronic 2;H4		

List of abbreviations and symbols that may be used above

ATE: Acute toxicity estimate.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Union workplace exposure limit(s).

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition comments The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated

clothing before reuse.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical

advice/attention if you feel unwell. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse.

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if

present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical advice/attention if you feel unwell.

4.2. Most important symptoms and effects, both acute and

delayed

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis.

Rash.

4.3. Indication of any immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

under observation. Symptoms may be delayed.

SECTION 5: Firefighting measures

General fire hazards Combustible liquid.

5.1. Extinguishing media

Suitable extinguishing

media

media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising

from the substance or mixture

The product is combustible, and heating may generate vapors which may form explosive vapor/air mixtures. During fire, gases hazardous to health may be formed.

5.3. Advice for firefighters

Special protective equipment for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting In case procedures so with

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Material name: Chockfast Red Resin

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Avoid breathing mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not touch or walk through spilled material.

For emergency responders

Keep unnecessary personnel away. Ensure adequate ventilation. Avoid breathing mist/vapors. Local authorities should be advised if significant spillages cannot be contained. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Keep away from open flames, hot surfaces and sources of ignition. Avoid breathing mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Provide adequate ventilation. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Wash contaminated clothing before reuse. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

7.3. Specific end use(s)

Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

Observe industrial sector guidance on best practices.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List, OEL Ordinance (GwV), BGBI. II, no. 184/2001, as amended

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	Ceiling	880 mg/m3	
		200 ppm	
	MAK	440 mg/m3	
		100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	MAK	221 mg/m3	
		50 ppm	
	STEL	442 mg/m3	
		100 ppm	

Belgium. OEL. Exposure Limit Values to Chemical Substances at Work, Code of Well-being at work, Book VI, Title 1 - Chemical agents, as amended

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	STEL	551 mg/m3	
		125 ppm	
	TWA	87 mg/m3	
		20 ppm	

Material name: Chockfast Red Resin

GP107R Version #: 20 Revision date: 07-26-2023 Issue date: 02-28-2013

Components	Туре	Value	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

Bulgaria. OELs. Ordinance No 13 on protection of workers against risks of exposure to chemical agents at work, as amended

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3	
	TWA	435 mg/m3	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

Croatia. OELs (GVI). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and Biological Limit Values, Annex I (NN 91/2018), as amended

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	MAC	442 mg/m3	
		100 ppm	
	STEL	884 mg/m3	
		200 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	MAC	221 mg/m3	
		50 ppm	
	STEL	442 mg/m3	
		100 ppm	

Cyprus. OELs. Occupational Exposure Limit Values of Chemicals at Work (Safety and Health at Work (Chem. Agents) Reg., Ann. 1, R.A.A. 268/2001, as amended)

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

Czech Republic. Occupational exposure limit values of chemicals at work (Decree on protection of health at work, 361/2007, Annex 2, Part A & Annex 3, Part A, as amended)

Components	Туре	Value
ethylbenzene (CAS 100-41-4)	Ceiling	500 mg/m3
	TWA	200 mg/m3

Components		
p-xylene; [1] p-xylene; [2] n-xylene; [3] xylene [4] CAS 1330-20-7)	Ceiling	400 mg/m3
,	TWA	200 mg/m3
Denmark. Work Environment Aut Components	hority. Exposure Limits for Sul Type	ostances & Materials, Annex 2 Value
ethylbenzene (CAS	TLV	217 mg/m3
100-41-4)		
	T1.) /	50 ppm
o-xylene; [1] p-xylene; [2] n-xylene; [3] xylene [4] CAS 1330-20-7)	TLV	109 mg/m3
		25 ppm
Estonia. OELs. Occupational Exp Components	oosure Limits of Hazardous Sul Type	ostances (Regulation No. 105/2001, Annex), as amended Value
ethylbenzene (CAS	STEL	884 mg/m3
00-41-4)		200 ppm
	TWA	442 mg/m3
	IVVA	100 ppm
p-xylene; [1] p-xylene; [2]	STEL	450 mg/m3
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	0.22	ice ing/ille
		100 ppm
	TWA	200 mg/m3
	IVVA	-
	IVVA	50 ppm
		50 ppm
Components ethylbenzene (CAS	ng Limit Values, Social Affairs	50 ppm and Ministry of Health
Components ethylbenzene (CAS	ng Limit Values, Social Affairs Type	50 ppm and Ministry of Health Value 880 mg/m3
Components ethylbenzene (CAS	ng Limit Values, Social Affairs Type STEL	50 ppm and Ministry of Health Value 880 mg/m3 200 ppm
Components ethylbenzene (CAS	ng Limit Values, Social Affairs Type	50 ppm and Ministry of Health Value 880 mg/m3 200 ppm 220 mg/m3
ethylbenzene (CAS 100-41-4)	ng Limit Values, Social Affairs Type STEL TWA	50 ppm and Ministry of Health Value 880 mg/m3 200 ppm 220 mg/m3 50 ppm
components ethylbenzene (CAS 100-41-4) p-xylene; [1] p-xylene; [2] n-xylene; [3] xylene [4]	ng Limit Values, Social Affairs Type STEL	50 ppm and Ministry of Health Value 880 mg/m3 200 ppm 220 mg/m3
components ethylbenzene (CAS 00-41-4) p-xylene; [1] p-xylene; [2] n-xylene; [3] xylene [4]	ng Limit Values, Social Affairs Type STEL TWA STEL	50 ppm and Ministry of Health Value 880 mg/m3 200 ppm 220 mg/m3 50 ppm 440 mg/m3
components ethylbenzene (CAS 100-41-4) p-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	ng Limit Values, Social Affairs Type STEL TWA	50 ppm and Ministry of Health Value 880 mg/m3 200 ppm 220 mg/m3 50 ppm 440 mg/m3 100 ppm 220 mg/m3
components ethylbenzene (CAS 100-41-4) p-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	ng Limit Values, Social Affairs Type STEL TWA STEL	50 ppm and Ministry of Health Value 880 mg/m3 200 ppm 220 mg/m3 50 ppm 440 mg/m3
components ethylbenzene (CAS 100-41-4) c-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] CAS 1330-20-7) France. OELs. Occupational Expe	ng Limit Values, Social Affairs Type STEL TWA STEL TWA TWA Osure Limits as Prescribed by A	50 ppm and Ministry of Health Value 880 mg/m3 200 ppm 220 mg/m3 50 ppm 440 mg/m3 100 ppm 220 mg/m3 50 ppm Art. R.4412-149 of Labor Code, as amended
components ethylbenzene (CAS 100-41-4) co-xylene; [1] p-xylene; [2] components components components	ng Limit Values, Social Affairs Type STEL TWA STEL TWA TWA Desure Limits as Prescribed by A	and Ministry of Health Value 880 mg/m3 200 ppm 220 mg/m3 50 ppm 440 mg/m3 100 ppm 220 mg/m3 50 ppm Art. R.4412-149 of Labor Code, as amended Value
components ethylbenzene (CAS 00-41-4) convergency [1] p-xylene; [2] en-xylene; [3] xylene [4] en-xylene; [3] xylene [4] en-xylene; [4] en-xylene; [5] xylene [4] en-xylene; [6] xylene [6] en-xylene; [7] p-xylene; [8] en-xylene; [8] p-xylene; [8] en-xylene; [9] p-xylene; [9] en-xylene; [1] p-xylene; [1] en-xylene; [1] p-xylene; [2] en-xylene; [3] xylene [4] en-xylene;	ng Limit Values, Social Affairs Type STEL TWA STEL TWA TWA Osure Limits as Prescribed by A	and Ministry of Health Value 880 mg/m3 200 ppm 220 mg/m3 50 ppm 440 mg/m3 100 ppm 220 mg/m3 50 ppm Art. R.4412-149 of Labor Code, as amended Value 442 mg/m3
components ethylbenzene (CAS 100-41-4) co-xylene; [1] p-xylene; [2] component; [3] xylene [4] components ethylbenzene (CAS components	ng Limit Values, Social Affairs Type STEL TWA STEL TWA osure Limits as Prescribed by A Type VLE	50 ppm and Ministry of Health Value 880 mg/m3 200 ppm 220 mg/m3 50 ppm 440 mg/m3 100 ppm 220 mg/m3 50 ppm Art. R.4412-149 of Labor Code, as amended Value 442 mg/m3 100 ppm
components ethylbenzene (CAS 100-41-4) co-xylene; [1] p-xylene; [2] components ethylbenzene (CAS 1330-20-7) France. OELs. Occupational Experience (CAS 134)	ng Limit Values, Social Affairs Type STEL TWA STEL TWA TWA Desure Limits as Prescribed by A	50 ppm and Ministry of Health Value 880 mg/m3 200 ppm 220 mg/m3 50 ppm 440 mg/m3 100 ppm 220 mg/m3 50 ppm Art. R.4412-149 of Labor Code, as amended Value 442 mg/m3 100 ppm 88,4 mg/m3
components ethylbenzene (CAS 100-41-4) c-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7) France. OELs. Occupational Experiments ethylbenzene (CAS 100-41-4)	ng Limit Values, Social Affairs Type STEL TWA STEL TWA besure Limits as Prescribed by A Type VLE VME	50 ppm and Ministry of Health Value 880 mg/m3 200 ppm 220 mg/m3 50 ppm 440 mg/m3 100 ppm 220 mg/m3 50 ppm Art. R.4412-149 of Labor Code, as amended Value 442 mg/m3 100 ppm 88,4 mg/m3 20 ppm
components ethylbenzene (CAS 100-41-4) co-xylene; [1] p-xylene; [2] components ethylbenzene (CAS 1330-20-7) France. OELs. Occupational Experiments ethylbenzene (CAS 100-41-4) co-xylene; [1] p-xylene; [2] component; [2] component; [3] xylene [4]	ng Limit Values, Social Affairs Type STEL TWA STEL TWA osure Limits as Prescribed by A Type VLE	50 ppm and Ministry of Health Value 880 mg/m3 200 ppm 220 mg/m3 50 ppm 440 mg/m3 100 ppm 220 mg/m3 50 ppm Art. R.4412-149 of Labor Code, as amended Value 442 mg/m3 100 ppm 88,4 mg/m3
Finland. HTP-arvot, App 3., Bindin Components ethylbenzene (CAS 100-41-4) p-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7) France. OELs. Occupational Exponents ethylbenzene (CAS 100-41-4) p-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	ng Limit Values, Social Affairs Type STEL TWA STEL TWA besure Limits as Prescribed by A Type VLE VME	50 ppm and Ministry of Health Value 880 mg/m3 200 ppm 220 mg/m3 50 ppm 440 mg/m3 100 ppm 220 mg/m3 50 ppm Art. R.4412-149 of Labor Code, as amended Value 442 mg/m3 100 ppm 88,4 mg/m3 20 ppm
components ethylbenzene (CAS 100-41-4) c-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7) France. OELs. Occupational Exponents ethylbenzene (CAS 100-41-4) c-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	ng Limit Values, Social Affairs Type STEL TWA STEL TWA besure Limits as Prescribed by A Type VLE VME	50 ppm and Ministry of Health Value 880 mg/m3 200 ppm 220 mg/m3 50 ppm 440 mg/m3 100 ppm 220 mg/m3 50 ppm Art. R.4412-149 of Labor Code, as amended Value 442 mg/m3 100 ppm 88,4 mg/m3 20 ppm 442 mg/m3

Components	Values (VLEP) for Occupational Exposi Type	Value
ethylbenzene (CAS 100-41-4)	VLE	442 mg/m3
Regulatory status:	Regulatory binding (VRC)	100 ppm
Regulatory status:	Regulatory binding (VRC)	
0 ,	VME	88,4 mg/m3
Regulatory status:	Regulatory binding (VRC)	-
	D 11 11 11 (1/D0)	20 ppm
Regulatory status:	Regulatory binding (VRC)	440 / 0
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	VLE	442 mg/m3
Regulatory status:	Regulatory binding (VRC)	100 ppm
Pogulatory status	Populatory binding (VPC)	100 μμπ
Regulatory status:	Regulatory binding (VRC) VME	221 mg/m3
Regulatory status:	Regulatory binding (VRC)	221 mg/ms
Regulatory Status.	regulatory billuling (VICC)	50 ppm
Regulatory status:	Regulatory binding (VRC)	оо ррш
		nyootigation of Hoolth Haranda of Chamical Cameran
in the Work Area (DFG),		nvestigation of Health Hazards of Chemical Compound
Components	Туре	Value
ethylbenzene (CAS 100-41-4)	TWA	88 mg/m3
100-41-4)		20 ppm
p-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]	TWA	220 mg/m3
(CAS 1330-20-7)		50 ppm
Germany. TRGS 900, Lim Components	nit Values in the Ambient Air at the Wor Type	kplace Value
ethylbenzene (CAS	AGW	88 mg/m3
100-41-4)	AGW	-
		20 ppm
p-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	AGW	220 mg/m3
(CAS 1330-20-1)		50 ppm
Greece. OELs, President	ial Decree No. 307/1986, as amended	
Components	Туре	Value
ethylbenzene (CAS 100-41-4)	STEL	545 mg/m3
,		125 ppm
	TWA	435 mg/m3
		100 ppm
o-xylene; [1] p-xylene; [2]	STEL	650 mg/m3
m-xylene; [3] xylene [4] (CAS 1330-20-7)		
		150 ppm
	TWA	435 mg/m3
		100 ppm
	on protection of workers exposed to ch Type	emical agents (5/2020. (II.6)), Annex 1&2, as amended Value
Components		T UIUU
Components ethylbenzene (CAS	STEL	884 mg/m3

Components	Туре	Value
	TWA	442 mg/m3
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3
	TWA	221 mg/m3
lceland. OELs. Regulation 390/20 Components	09 on Pollution Limits and Me Type	asures to Reduce Pollution at the Workplace, as amende Value
ethylbenzene (CAS	STEL	884 mg/m3
100-41-4)		222
	T14/4	200 ppm
	TWA	200 mg/m3
	0.751	50 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3
		100 ppm
	TWA	109 mg/m3
		25 ppm
reland. OELVs, Schedules 1 & 2,	Code of Practice for Chemica	I Agents and Carcinogens Regulations
Components	Туре	Value
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
		100 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm
taly. OELs (Legislative Decree n	.81, 9 April 2008), as amended	
Components	Туре	Value
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
		100 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm
1), as amended		tances at Workplace (Reg. No. 325/ 2007, L.V. 80, Annex
Components	Туре	Value
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
	T14/4	200 ppm
	TWA	442 mg/m3
		100 ppm

Latvia. OELs. Occupational Exposure Limits of Chemical Substances at Workplace (Reg. No. 325/ 2007, L.V. 80, Annex 1), as amended

Components	Туре	Value	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

Lithuania. OELs. Occupational Exposure Limit Values for Chemical Substances (Hygiene Norm HN 23:2011; Order No. V-824/A1-389), as amended

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

Luxembourg. OELs. Binding Occupational Exposure Limit Values (Annex I), G.D.R. of 14 November 2016, OJ Memorial A, n ° 235/2016, as amended

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

Malta. OELs. Protection of Health and Safety of Workers from Risks related to Chemical Agents at Work (L.N 227/2003 Schedules I and V), as amended

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

Netherlands. OELs per Annex XIII of Working Conditions Regulation (Staatscourant no. 252, 29 December 2006), as

Components	Туре	Value
ethylbenzene (CAS 100-41-4)	STEL	430 mg/m3

Components	Туре	Value	
	TWA	215 mg/m3	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
	TWA	210 mg/m3	

Norway. Regulation No. 1358 on Measures and Limit Values for Physical and Chemical Factors in Work Environment and Infection Groups for Biological Factors, as amended

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	TLV	20 mg/m3	
		5 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	TLV	108 mg/m3	
·		25 ppm	

Poland. Maximum permissible concentrations and intensities of harmful factors in the work environment (Dz.U.Poz. 1286/2018, Annex 1)

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	STEL	400 mg/m3	
	TWA	200 mg/m3	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	200 mg/m3	
,	TWA	100 mg/m3	

Portugal. Decree-Law No. 24/2012, Occupational Exposure Limit Values, Annex II, as amended Components Type Value

ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
		100 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm

Portugal. VLEs. Norm on occupational exposure to chemical agents (NP 1796-2014) Components Type Value

-		
ethylbenzene (CAS 100-41-4)	TWA	20 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	150 ppm
	TWA	100 ppm

Romania. OELs. Limit Values of Chemical Agents at Workplace (Regulation 1.218/2006, M.O 845, Annex 1, 3&4, as amended)

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	

Romania. OELs. Limit Values of Chemical Agents at Workplace (Regulation 1.218/2006, M.O 845, Annex 1, 3&4, as amended)

Components	Туре	Value	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

Slovakia. OELs. Maximum permissible exposure limits for chemical factors in workplace air (Regulation No 355/2006, Annex 1, Table 1, as amended)

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	442 mg/m3	
		100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

Slovenia. OELs. Occupational Exposure Limits of Chemicals at Workplace (Reg. on Protection of Workers from Risks due to Exp. to Chemicals at Work, Annex I), as amended

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	TWA	442 mg/m3	
		100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	TWA	221 mg/m3	
		50 ppm	

Spain. OELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 1-Valores Límites Ambientales (VLAs)

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3	
		200 ppm	
	TWA	441 mg/m3	
		100 ppm	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	442 mg/m3	
		100 ppm	
	TWA	221 mg/m3	
		50 ppm	

Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended

Components	Туре	Value	
ethylbenzene (CAS 100-41-4)	Ceiling	884 mg/m3	
		200 ppm	
	TWA	220 mg/m3	
		50 ppm	

Sweden. OELs (Annex 1). Work Environment Authority (AV), Occupational Exposure Limit Values (AFS 2018:1), as amended

amended Components	Туре	Value
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	Ceiling	442 mg/m3
		100 ppm
	TWA	221 mg/m3
		50 ppm
Switzerland. SUVA Grenzwerte ar	n Arbeitsplatz: Aktuelle MAK-V	Verte
Components	Туре	Value
ethylbenzene (CAS 100-41-4)	STEL	220 mg/m3
		50 ppm
	TWA	220 mg/m3
		50 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	870 mg/m3
		200 ppm
	TWA	435 mg/m3
		100 ppm
UK. OELs. Workplace Exposure L Components	imits (WELs) (EH40/2005 (Four	rth Edition 2020)), Table 1 Value
ethylbenzene (CAS 100-41-4)	STEL	552 mg/m3
		125 ppm
	TWA	441 mg/m3
		100 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	STEL	441 mg/m3
,		100 ppm
	TWA	220 mg/m3
		50 ppm
EU. Indicative Exposure Limit Val Components	lues in Directives 91/322/EEC, 2 Type	2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU Value
ethylbenzene (CAS 100-41-4)	STEL	884 mg/m3
		200 ppm
	TWA	442 mg/m3
	IVVA	-
		100 ppm
m-xylene; [3] xylene [4]	STEL	-
m-xylene; [3] xylene [4]		100 ppm
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)		100 ppm 442 mg/m3

Biological limit values

Croatia. BELs (BGV). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and BELs, Annex IV (NN 91/2018), as amended

Components	Value	Determinant	Specimen	Sampling Time
ethylbenzene (CAS 100-41-4)	1,5 g/g	Mandelic acid	Creatinine in urine	*
	1,5 mg/l	ethylbenzene	Blood	*

Croatia. BELs (BGV). Regulation on Protection of Workers against Exposure to Dangerous Chemicals at Work, OELs and BELs, Annex IV (NN 91/2018), as amended

Components	Value	Determinant	Specimen	Sampling Time
	1,12 mol/mol	Mandelic acid	Creatinine in urine	*
	14,1 umol/l	ethylbenzene	Blood	*
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	1,5 g/g	Methylhippuric acids	Creatinine in urine	*
	1,5 mg/l	xylene	Blood	*
	0,88 mol/mol	Methylhippuric acids	Creatinine in urine	*
	14,13 umol/l	xylene	Blood	*

^{* -} For sampling details, please see the source document.

Czech Republic. BELs. Government Decree 432/2003 Sb., as amended

Components	Value	Determinant	Specimen	Sampling Time	
ethylbenzene (CAS 100-41-4)	1100 µmol/mmol	Mandelic acid	Creatinine in urine	*	
	1500 mg/g	Mandelic acid	Creatinine in urine	*	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	820 µmol/mmol	Methylhippuric acids	Creatinine in urine	*	
	1400 mg/g	Methylhippuric acids	Creatinine in urine	*	

^{* -} For sampling details, please see the source document.

Finland. HTP-arvot, App 2., Biological Limit Values, Social Affairs and Ministry of Health

Components	Value	Determinant	Specimen	Sampling Time
ethylbenzene (CAS 100-41-4)	5,2 mmol/l	Mandelic acid	Urine	*
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	5 mmol/l	Methylhippuric acids	Urine	*

^{* -} For sampling details, please see the source document.

France. Biological indicators of exposure (IBE) (National Institute for Research and Security (INRS), ND 2065)

Components	Value	Determinant	Specimen	Sampling Time	,
ethylbenzene (CAS 100-41-4)	1500 mg/g	Acide mandélique	Creatinine in urine	*	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	1500 mg/g	Acides méthylhippuriq ues	Creatinine in urine	*	

^{* -} For sampling details, please see the source document.

Germany, TRGS 903, BAT List (Biological Limit Values)

Components	Value	Determinant	Specimen	Sampling Time
ethylbenzene (CAS 100-41-4)	250 mg/g	Mandelsäure plus Phenylglyoxyls äure	Creatinine in urine	*
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	2000 mg/l	Methylhippur-(T olur-) säure (alle Isomere)	Urine	*

^{* -} For sampling details, please see the source document.

Hungary. BELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 3&4, as amended

Components	value	Determinant	Specimen	Sampling Time	
ethylbenzene (CAS 100-41-4)	1110 µmol/mmol	mandelic acid	Creatinine in urine	*	
	1500 mg/g	mandelic acid	Creatinine in urine	*	

Components	on protection of work Value	ers exposed to chen Determinant	Specimen	2020. (II.6)), Annex 3&4, as amended Sampling Time
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	860 µmol/mmol	methyl hippuric acids	Creatinine in urine	*
	1500 mg/g	methyl hippuric	Creatinine in	*

urine

Slovakia. BLVs (Biological Limit Value). Regulation no. 355/2006 concerning protection of workers exposed to chemical agents, Annex 2

acids

Components	Value	Determinant	Specimen	Sampling Time	
ethylbenzene (CAS 100-41-4)	8,03 mg/g	2 and 4-ethylphenol	Creatinine in urine	*	
	12 mg/l	2 and 4-ethylphenol	Urine	*	
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	1334 mg/g	Methylhippuric acids	Creatinine in urine	*	
	2000 mg/l	Methylhippuric acids	Urine	*	
	1,5 mg/l	xylene	Blood	*	

^{* -} For sampling details, please see the source document.

Spain. BELs. INSST, Límites de Exposición Profesional Para Agentes Químicos, Table 3-Valores Límite Biológicos (VLB) Components Value **Determinant** Specimen **Sampling Time** ethylbenzene (CAS 700 mg/g Suma del acido Creatinine in 100-41-4) mandélico y el urine ácido fenilglioxílico o-xylene; [1] p-xylene; [2] Ácidos Creatinine in metilhipúricos m-xylene; [3] xylene [4] urine (CAS 1330-20-7)

Switzerland, SUVA Grenzwerte am Arbeitsplatz: Aktuelle BAT-Werte

Components	Value	Determinant	Specimen	Sampling Time
ethylbenzene (CAS 100-41-4)	600 mg/g	Mandelsäure + Phenylglyoxyls äure	Creatinine in urine	*
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	2 g/l	Methylhippursä uren	Urine	*

^{* -} For sampling details, please see the source document.

UK. BELs. Biological Monitoring Guidance Values (BMGVs) (EH40/2005 (Fourth Edition 2020)), Table 2						
Components	Value	Determinant	Specimen	Sampling Time		
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)	650 mmol/mol	Methyl hippuric acid	Creatinine in urine	*		

^{* -} For sampling details, please see the source document.

Recommended monitoring procedures

Follow standard monitoring procedures.

Not available. Derived no effect levels

(DNELs)

Predicted no effect Not available.

concentrations (PNECs)

Exposure guidelines

Austria MAK: Skin designation

ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin.

(CAS 1330-20-7)

Belgium OELs: Skin designation

ethylbenzene (CAS 100-41-4) Can be absorbed through the skin.

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^{* -} For sampling details, please see the source document.

^{* -} For sampling details, please see the source document.

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) **Bulgaria OELs: Skin designation** ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) Croatia ELVs: Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) Czech Republic PELs: Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) **Denmark GV: Skin designation** ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7) Estonia OELs: Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7) **EU Exposure Limit Values: Skin designation** ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) Finland Exposure Limit Values: Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) France INRS: Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7) France Mandatory OELs (VLEP): Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) Germany DFG MAK (advisory): Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7) Germany TRGS 900 Limit Values: Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) **Greece OEL: Skin designation** o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) **Hungary OELs: Skin designation** ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) Iceland OELs: Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) Ireland Exposure Limit Values: Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7) Italy OELs: Skin designation ethylbenzene (CAS 100-41-4) Danger of cutaneous absorption o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Danger of cutaneous absorption (CAS 1330-20-7) Latvia OELs: Skin designation ethylbenzene (CAS 100-41-4) Can be absorbed through the skin.

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] Can be absorbed through the skin. (CAS 1330-20-7)

Lithuania OELs: Skin designation

ethylbenzene (CAS 100-41-4)
Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]
Can be absorbed through the skin.

(CAS 1330-20-7)
Luxembourg OELs: Skin designation

ethylbenzene (CAS 100-41-4)

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]

(CAS 1330-20-7)

Can be absorbed through the skin.

Can be absorbed through the skin.

Malta OELs: Skin designation

ethylbenzene (CAS 100-41-4)
Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]
Can be absorbed through the skin.

(CAS 1330-20-7)

Netherlands OELs (binding): Skin designation

ethylbenzene (CAS 100-41-4)

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]

(CAS 1330-20-7)

Can be absorbed through the skin.

Can be absorbed through the skin.

Norway Exposure Limit Values: Skin designation

ethylbenzene (CAS 100-41-4)
Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]
Can be absorbed through the skin.
(CAS 1330-20-7)

Portugal OELs: Skin designation

ethylbenzene (CAS 100-41-4)
Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]
Can be absorbed through the skin.
(CAS 1330-20-7)

Romania OELs: Skin designation

ethylbenzene (CAS 100-41-4)
Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]
Can be absorbed through the skin.
(CAS 1330-20-7)

Slovakia OELs: Skin designation

ethylbenzene (CAS 100-41-4)

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]

(CAS 1330-20-7)

Can be absorbed through the skin.

Can be absorbed through the skin.

Slovenia. OELs. Regulations concerning protection of workers against risks due to exposure to chemicals while working (Official Gazette of the Republic of Slovenia)

ethylbenzene (CAS 100-41-4)
Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]
Can be absorbed through the skin.

(CAS 1330-20-7)
Spain OELs: Skin designation

ethylbenzene (CAS 100-41-4)
Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]
Can be absorbed through the skin.

(CAS 1330-20-7)

Sweden Threshold Limit Values: Skin designation
ethylbenzene (CAS 100-41-4)
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]
Can be absorbed through the skin.
Can be absorbed through the skin.

(CAS 1330-20-7)

Switzerland SUVA Limit Values at the Workplace: Skin designation

ethylbenzene (CAS 100-41-4)
Can be absorbed through the skin.
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]
Can be absorbed through the skin.

(CAS 1330-20-7)
UK EH40 WEL: Skin designation

ethylbenzene (CAS 100-41-4)
o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]

Can be absorbed through the skin.
Can be absorbed through the skin.

(CAS 1330-20-7)

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Provide eyewash station and safety shower.

Individual protection measures, such as personal protective equipment

General information Use personal protective equipment as required. Personal protection equipment should be chosen

according to the CEN standards and in discussion with the supplier of the personal protective

equipment.

Eye/face protection Wear safety glasses with side shields (or goggles). Face shield is recommended.

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Skin protection

- Hand protection Wear appropriate chemical resistant gloves.

Other Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

limits (where applicable) or to an acceptable level (in countries where exposure limits have not

been established), an approved respirator must be worn.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures When using do not smoke. Always observe good personal hygiene measures, such as washing

after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not

be allowed out of the workplace.

Environmental exposure

controls

Inform appropriate managerial or supervisory personnel of all environmental releases. Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. Fume scrubbers, filters or engineering modifications to the process equipment may be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state Liquid.
Form Liquid.

ColorColorless to light yellow.OdorAromatic. Hydrocarbon-like.

Melting point/freezing point Boiling point or initial boiling point and boiling range

280,4 °F (138 °C)

Not available.

Flammability Not applicable.

Flash point 150,0 °F (65,6 °C) Pensky-Martens Closed Cup

Auto-ignition temperature Not available.

Decomposition temperature Not available.

pH 7

Kinematic viscosity Not available.

Solubility

Solubility (water) Not available.

Partition coefficient Not available.

(n-octanol/water) (log value)

Vapor pressure 5,6 hPa estimated

Density and/or relative density Not available.

Vapor density 3,5

Particle characteristics Not available.

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No relevant additional information available.

9.2.2. Other safety characteristics

Evaporation rate 0,6
Specific gravity 1,2
VOC 52 g/I

SECTION 10: Stability and reactivity

10.1. Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials.

10.5. Incompatible materials Strong oxidizing agents.

10.6. Hazardous Carbon oxides.

decomposition products

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SECTION 11: Toxicological information

Occupational exposure to the substance or mixture may cause adverse effects. General information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. Skin contact

Eye contact Causes serious eye irritation.

Ingestion May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of

occupational exposure.

Symptoms Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. Skin irritation. May cause redness and pain. May cause an allergic skin reaction.

Dermatitis, Rash.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity Harmful in contact with skin.

Test Results Components **Species**

ethylbenzene (CAS 100-41-4)

Acute Dermal

LD50 Rabbit 17800 mg/kg

Oral

LD50 Rat 3500 mg/kg

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)

Acute Oral

LD50 Rat 3523 - 8600 mg/kg

Causes skin irritation. Skin corrosion/irritation

Serious eye damage/eye

irritation

Causes serious eye irritation.

Due to partial or complete lack of data the classification is not possible. Respiratory sensitization

Skin sensitization May cause an allergic skin reaction.

Germ cell mutagenicity Due to partial or complete lack of data the classification is not possible. Carcinogenicity Due to partial or complete lack of data the classification is not possible.

IARC Monographs. Overall Evaluation of Carcinogenicity

ethylbenzene (CAS 100-41-4) 2B Possibly carcinogenic to humans.

3 Not classifiable as to carcinogenicity to humans. o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]

(CAS 1330-20-7)

Due to partial or complete lack of data the classification is not possible. Reproductive toxicity Due to partial or complete lack of data the classification is not possible.

Specific target organ toxicity -

single exposure

Specific target organ toxicity -

repeated exposure

Due to partial or complete lack of data the classification is not possible.

Due to partial or complete lack of data the classification is not possible. **Aspiration hazard**

Mixture versus substance

information

No information available.

11.2. Information on other hazards

Endocrine disrupting

properties

This mixture does not contain any substances having endocrine disrupting properties with respect to human health as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than

0.1% by weight.

Other information Not available.

SECTION 12: Ecological information

12.1. Toxicity Harmful to aquatic life with long lasting effects. Due to partial or complete lack of data the

classification for hazardous to the aquatic environment, acute hazard, is not possible.

12.2. Persistence and

degradability

No data is available on the degradability of any ingredients in the mixture.

12.3. Bioaccumulative potential

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Partition coefficient n-octanol/water (log Kow)

ethylbenzene 3,15 o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] 3,12 - 3,2

Bioconcentration factor (BCF) Not available.

12.4. Mobility in soil No data available.

12.5. Results of PBT and vPvB assessment

This mixture does not contain substances assessed to be vPvB / PBT according to Regulation

(EC) No 1907/2006, Annex XIII.

12.6. Endocrine disrupting

properties

This mixture does not contain any substances having endocrine disrupting properties with respect to the environment as assessed in accordance with the criteria set out in Regulations (EC) No 1907/2006, (EU) No 2017/2100 and (EU) 2018/605, at a concentration equal to or greater than

0.1% by weight.

12.7. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

12.8. Additional information

Estonia Dangerous substances in soil Data

ethylbenzene (CAS 100-41-4) ETHYLBENZENE 0,1 MG/KG

ETHYLBENZENE 5 MG/KG ETHYLBENZENE 50 MG/KG

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4]

(CAS 1330-20-7)

Chemical pesticides (As the total sum of the active substances)

0,5 MG/KG

Chemical pesticides (As the total sum of the active substances) 20

MG/KG

Chemical pesticides (As the total sum of the active substances) 5

MG/KG

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

EU waste codeThe Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Special precautionsDispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number UN3082

14.2. UN proper shipping

name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin)

14.3. Transport hazard class(es)

Class 9
Subsidiary risk Label(s) 9
Hazard No. (ADR) 90
Tunnel restriction code E

14.4. Packing group III **14.5. Environmental hazards** No.

14.6. Special precautions

Read safety instructions, SDS and emergency procedures before handling.

for user

RID

14.1. UN number UN3082

14.2. UN proper shipping ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Epoxy Resin)

name

14.3. Transport hazard class(es)

Class 9
Subsidiary risk Label(s) 9

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14.4. Packing group Ш 14.5. Environmental hazards No.

14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

ADN

UN3082 14.1. UN number

Environmentally Hazardous Liquid, N.o.s. (Epoxy Resin) 14.2. UN proper shipping

name

14.3. Transport hazard class(es)

9 Class Subsidiary risk 9 Label(s) Ш 14.4. Packing group 14.5. Environmental hazards No.

Read safety instructions, SDS and emergency procedures before handling. 14.6. Special precautions

for user

IATA

14.1. UN number

14.2. UN proper shipping Environmentally hazardous substance, liquid, n.o.s. (Epoxy Resin)

14.3. Transport hazard class(es)

9 Class Subsidiary risk 14.4. Packing group Ш 14.5. Environmental hazards Yes **ERG Code** 9L

14.6. Special precautions

for user

Read safety instructions, SDS and emergency procedures before handling.

Other information

Passenger and cargo

Allowed with restrictions.

aircraft

Cargo aircraft only Allowed with restrictions.

IMDG

UN3082 14.1. UN number

Environmentally hazardous substances, liquid, n.o.s. (Epoxy Resin), MARINE POLLUTANT 14.2. UN proper shipping

name

14.3. Transport hazard class(es)

Class Subsidiary risk 9 Label(s) Ш 14.4. Packing group 14.5. Environmental hazards Marine pollutant Yes

Not assigned. **EmS**

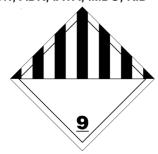
14.6. Special precautions Read safety instructions, SDS and emergency procedures before handling.

for user

14.7. Maritime transport in bulk according to IMO instruments

Not established.

ADN; ADR; IATA; IMDG; RID



Marine pollutant



General information

IMDG Regulated Marine Pollutant.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended Not listed.

Regulation (EU) 2019/1021 On persistent organic pollutants (recast), as amended

Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended

Not listed

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended Not listed.

Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended

ethylbenzene (CAS 100-41-4)

o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA Not listed.

UFI:

Austria: 61D0-Q0F3-F001-EJPQ Belgium: 61D0-Q0F3-F001-EJPQ Bulgaria: 61D0-Q0F3-F001-EJPQ Croatia: 61D0-Q0F3-F001-EJPQ Cyprus: 61D0-Q0F3-F001-EJPQ

Czech Republic: 61D0-Q0F3-F001-EJPQ Denmark: 61D0-Q0F3-F001-EJPQ Estonia: 61D0-Q0F3-F001-EJPQ EU: 61D0-Q0F3-F001-EJPQ Finland: 61D0-Q0F3-F001-EJPQ France: 61D0-Q0F3-F001-EJPQ Germany: 61D0-Q0F3-F001-EJPQ Greece: 61D0-Q0F3-F001-EJPQ Hungary: 61D0-Q0F3-F001-EJPQ Iceland: 61D0-Q0F3-F001-EJPQ Ireland: 61D0-Q0F3-F001-EJPQ Italy: 61D0-Q0F3-F001-EJPQ Latvia: 61D0-Q0F3-F001-EJPQ Lithuania: 61D0-Q0F3-F001-EJPQ Luxembourg: 61D0-Q0F3-F001-EJPQ Malta: 61D0-Q0F3-F001-EJPQ Netherlands: 61D0-Q0F3-F001-EJPQ Norway: 61D0-Q0F3-F001-EJPQ Poland: 61D0-Q0F3-F001-EJPQ

Portugal: 61D0-Q0F3-F001-EJPQ Romania: 61D0-Q0F3-F001-EJPQ Slovakia: 61D0-Q0F3-F001-EJPQ Slovenia: 61D0-Q0F3-F001-EJPQ Spain: 61D0-Q0F3-F001-EJPQ Sweden: 61D0-Q0F3-F001-EJPQ

Authorizations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use, as amended - Conditions of restriction given for the associated entry number should be considered

ethylbenzene (CAS 100-41-4) 40 75 o-xylene; [1] p-xylene; [2] m-xylene; [3] xylene [4] (CAS 1330-20-7)

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended

Not listed.

The product is classified and labelled in accordance with Regulation (EC) 1272/2008 (CLP Other regulations

Regulation) as amended. This Safety Data Sheet complies with the requirements of Regulation

(EC) No 1907/2006, as amended.

Young people under 18 years old are not allowed to work with this product according to EU **National regulations**

Directive 94/33/EC on the protection of young people at work, as amended. Follow national regulation for work with chemical agents in accordance with Directive 98/24/EC, as amended.

France regulations

France INRS Table of Occupational Diseases

Epoxy Resin: Reaction product of bisphenol A and epichlorohydrin (refer to epichlorohydrin)

(CAS 25068-38-6)

ethylbenzene (CAS 100-41-4)

Maladies professionnelles provoquées par les résines époxydiques et leurs constituants 51

Affections engendrées par les solvants organiques liquides à usage professionnel: hydrocarbures liquides aliphatiques ou cycliques saturés ou insaturés et leurs mélanges; hydrocarbures halogénés liquides; dérivés nitrés des hydrocarbures aliphatiques; al 84

Product registration number

Austria UFI: 61D0-Q0F3-F001-EJPQ **Belgium** UFI: 61D0-Q0F3-F001-EJPQ **Czech Republic** UFI: 61D0-Q0F3-F001-EJPQ **Denmark** UFI: 61D0-Q0F3-F001-EJPQ **European Union** UFI: 61D0-Q0F3-F001-EJPQ **Finland** UFI: 61D0-Q0F3-F001-EJPQ **France** UFI: 61D0-Q0F3-F001-EJPQ UFI: 61D0-Q0F3-F001-EJPQ Germany UFI: 61D0-Q0F3-F001-EJPQ Greece UFI: 61D0-Q0F3-F001-EJPQ Hungary UFI: 61D0-Q0F3-F001-EJPQ Italy UFI: 61D0-Q0F3-F001-EJPQ **Netherlands** UFI: 61D0-Q0F3-F001-EJPQ Norway UFI: 61D0-Q0F3-F001-EJPQ **Poland Portugal** UFI: 61D0-Q0F3-F001-EJPQ Slovakia UFI: 61D0-Q0F3-F001-EJPQ Slovenia UFI: 61D0-Q0F3-F001-EJPQ Spain UFI: 61D0-Q0F3-F001-EJPQ Sweden UFI: 61D0-Q0F3-F001-EJPQ **Switzerland** UFI: 61D0-Q0F3-F001-EJPQ

15.2. Chemical safety

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations

assessment

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.

ADR: Agreement concerning the International Carriage of Dangerous Goods by Road.

AGW: Occupational threshold limit value (Arbeitsplatzgrenzwert - Germany).

CAS: Chemical Abstract Service.

CEN: European Committee for Standardization. IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

MAC: Maximum Allowed Concentration.

MARPOL: International Convention for the Prevention of Pollution from Ships.

PBT: Persistent, bioaccumulative and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

STEL: Short term exposure limit.

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TLV: Threshold Limit Value. TWA: Time Weighted Average. VLE: Exposure Limit Value. VME: Exposure Average Value.

Not available.

vPvB: Very persistent and very bioaccumulative.

References

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available.

Full text of any statements, which are not written out in full under sections 2 to 15

H225 Highly flammable liquid and vapor.

H226 Flammable liquid and vapor.

H304 May be fatal if swallowed and enters airways.

H312 Harmful in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects. Physical & Chemical Properties: Multiple Properties

Revision information Training information

Follow training instructions when handling this material.

Disclaimer

ITW Performance Polymers cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release.

Material name: Chockfast Red Resin

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