# SAFETY DATA SHEET

Version #: 08

Issue date: 10-14-2019 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

SKU#

Chockfast Versaflow Hardener

Registration number

None. Synonyms GP140H

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 Address

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 Versaflow Hardener

### 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.)

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Latvia Emergency medical

aid

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

Latvia Poison and Drug Information Center Lithuania Neatidėliotina

available for the Emergency Service.) +370 5 236 20 52 or +37068753378 (Hours of operation not provided.

informacija apsinuodijus Malta Accident and **Emergency Department** 

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

**Netherlands National Poisons Information** Center (NVIC)

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

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

**Norway Norwegian Poison Information Center Portugal Poison Center** 

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

available for the Emergency Service.)

in cases of acute intoxications)

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** 

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

information may not be available for the Emergency Service.)

**Information Center 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.

### 2.2. Label elements

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

UFI:

Austria: HKE0-T0V7-X00X-AQ5V Belgium: HKE0-T0V7-X00X-AQ5V Bulgaria: HKE0-T0V7-X00X-AQ5V Croatia: HKE0-T0V7-X00X-AQ5V Cyprus: HKE0-T0V7-X00X-AQ5V

Czech Republic: HKE0-T0V7-X00X-AQ5V Denmark: HKE0-T0V7-X00X-AQ5V Estonia: HKE0-T0V7-X00X-AQ5V EU: HKE0-T0V7-X00X-AQ5V Finland: HKE0-T0V7-X00X-AQ5V France: HKE0-T0V7-X00X-AQ5V Germany: HKE0-T0V7-X00X-AQ5V Greece: HKE0-T0V7-X00X-AQ5V Hungary: HKE0-T0V7-X00X-AQ5V Iceland: HKE0-T0V7-X00X-AQ5V Ireland: HKE0-T0V7-X00X-AQ5V Italy: HKE0-T0V7-X00X-AQ5V Latvia: HKE0-T0V7-X00X-AQ5V Lithuania: HKE0-T0V7-X00X-AQ5V Luxembourg: HKE0-T0V7-X00X-AQ5V Malta: HKE0-T0V7-X00X-AQ5V Netherlands: HKE0-T0V7-X00X-AQ5V Norway: HKE0-T0V7-X00X-AQ5V Poland: HKE0-T0V7-X00X-AQ5V Portugal: HKE0-T0V7-X00X-AQ5V Romania: HKE0-T0V7-X00X-AQ5V Slovakia: HKE0-T0V7-X00X-AQ5V

Slovenia: HKE0-T0V7-X00X-AQ5V Spain: HKE0-T0V7-X00X-AQ5V Sweden: HKE0-T0V7-X00X-AQ5V

Contains: 2,4,6-tris(dimethylaminomethyl)phenol, 3,6-diazaoctanethylenediamin; triethylenetetramine,

POLY(OXYPROPYLENE)DIAMINE, Triethylolamine

#### **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.

### **Precautionary statements**

#### Prevention

P260 Do not breathe vapor.

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.

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. Immediately call a POISON CENTER/doctor.

P310 Immediately call a POISON CENTER/doctor.
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage

P405 Store locked up.

**Disposal** 

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

Supplemental label information

100% of the mixture consists of component(s) of unknown acute inhalation toxicity. 100% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 88,5% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

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.	<b>REACH Registration No.</b>	Index No.	Notes
POLY(OXYPROPYLENE)DIAMINE	40 - 70	9046-10-0	-	-	
Classification:	_	-			
2,4,6-tris(dimethylaminomethyl)pheno	10 - 30	90-72-2 202-013-9	01-2119560597-27-0000	603-069-00-0	
		4;H302;(ATE: 500 m , Skin Irrit. 2;H315, E	ng/kg bw), Acute Tox. 4;H31 ye Irrit. 2;H319	2;(ATE: 1280	
3,6-diazaoctanethylenediamin; triethylenetetramine	7 - 13	112-24-3 203-950-6	01-2119487919-13-0000	612-059-00-5	
	mg/kg bw)		mg/kg bw), Acute Tox. 4;H3 , Eye Dam. 1;H318, Skin Se		
Triethylolamine	1 - 5	102-71-6 203-049-8	-	-	
Classification:	Eye Irrit. 2;	H319			

#### 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**

**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.

Remove contaminated clothing immediately and wash skin with soap and water. Call a physician Skin contact

or poison control center immediately. Chemical burns must be treated by a physician. Wash

contaminated clothing before reuse.

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

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

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

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

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

Alcohol resistant foam. Powder. Carbon dioxide (CO2).

Material name: Chockfast Versaflow Hardener

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 discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up 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. 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).

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

## 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	Form
Triethylolamine (CAS 102-71-6)	MAK	5 mg/m3	Inhalable fraction.
		0,8 ppm	Inhalable fraction.
	STEL	10 mg/m3	Inhalable fraction.
		1.6 ppm	Inhalable fraction

#### 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	
Triethylolamine (CAS	TWA	5 mg/m3	
102-71-6)			

### 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	
Triethylolamine (CAS 102-71-6)	Ceiling	10 mg/m3	
	TWA	5 mg/m3	

Material name: Chockfast Versaflow Hardener

Components	Туре	Value	
riethylolamine (CAS 02-71-6)	TLV	3,1 mg/m3	
,		0,5 ppm	
estonia. OELs. Occupational Expo Components	sure Limits of Hazardous Su Type	bstances (Regulation No. 109 Value	5/2001, Annex), as amend
3,6-diazaoctanethylenedia nin; triethylenetetramine CAS 112-24-3)	STEL	12 mg/m3	
	TWA	6 mg/m3	
		1 ppm	
riethylolamine (CAS 02-71-6)	STEL	10 mg/m3	
102 1 1 0)	TWA	5 mg/m3	
inland. HTP-arvot, App 3., Binding Components	g Limit Values, Social Affairs Type	and Ministry of Health Value	
Triethylolamine (CAS 102-71-6)	TWA	5 mg/m3	
Germany. DFG MAK List (advisory		nvestigation of Health Hazar	ds of Chemical Compoun
n the Work Area (DFG), as updated Components	d Type	Value	Form
riethylolamine (CAS 02-71-6)	TWA	1 mg/m3	Inhalable fraction.
Germany. TRGS 900, Limit Values Components	in the Ambient Air at the Wo	kplace Value	Form
Friethylolamine (CAS 102-71-6)	AGW	1 mg/m3	Inhalable fraction.
,			
	on Pollution Limits and Me Type	asures to Reduce Pollution a Value	t the Workplace, as amen
Components 3,6-diazaoctanethylenedia nin; triethylenetetramine			t the Workplace, as amen
components 8,6-diazaoctanethylenedia nin; triethylenetetramine	Туре	Value	t the Workplace, as amen
Components 3,6-diazaoctanethylenedia min; triethylenetetramine CAS 112-24-3)  Friethylolamine (CAS	Туре	Value 6 mg/m3	t the Workplace, as amen
Components 3,6-diazaoctanethylenedia nin; triethylenetetramine CAS 112-24-3)  Friethylolamine (CAS 102-71-6)  reland. OELVs, Schedules 1 & 2, C	Type  TWA  TWA  Code of Practice for Chemica	Value 6 mg/m3 1 ppm 5 mg/m3	
Components 3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)  Triethylolamine (CAS 102-71-6)  reland. OELVs, Schedules 1 & 2, C	Type  TWA  TWA	<b>Value</b> 6 mg/m3 1 ppm 5 mg/m3	
Components  3,6-diazaoctanethylenedia nin; triethylenetetramine CAS 112-24-3)  Friethylolamine (CAS 102-71-6)  reland. OELVs, Schedules 1 & 2, Components  Friethylolamine (CAS	Type  TWA  TWA  Code of Practice for Chemica	Value 6 mg/m3 1 ppm 5 mg/m3	
Components  3,6-diazaoctanethylenedia nin; triethylenetetramine CAS 112-24-3)  Friethylolamine (CAS 102-71-6)  reland. OELVs, Schedules 1 & 2, Components  Friethylolamine (CAS 102-71-6)  taly. OELs (Legislative Decree n.8)	Type  TWA  TWA  Code of Practice for Chemica Type  TWA  TWA  1, 9 April 2008), as amended	Value 6 mg/m3 1 ppm 5 mg/m3 I Agents and Carcinogens Revalue 5 mg/m3	
Components  3,6-diazaoctanethylenedia min; triethylenetetramine CAS 112-24-3)  Friethylolamine (CAS 102-71-6)  reland. OELVs, Schedules 1 & 2, Components  Friethylolamine (CAS 102-71-6)  taly. OELs (Legislative Decree n.8)  Components	Type TWA  TWA  Code of Practice for Chemica Type TWA  1, 9 April 2008), as amended Type	Value 6 mg/m3 1 ppm 5 mg/m3 I Agents and Carcinogens Revalue 5 mg/m3 Value	
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Components  3,6-diazaoctanethylenedia min; triethylenetetramine CAS 112-24-3)  Friethylolamine (CAS 102-71-6)  reland. OELVs, Schedules 1 & 2, Components  Friethylolamine (CAS 102-71-6)  taly. OELs (Legislative Decree n.8: Components  Friethylolamine (CAS 102-71-6)  Lithuania. OELs. Occupational Exp 7-824/A1-389), as amended Components  3,6-diazaoctanethylenedia min; triethylenetetramine	Type  TWA  TWA  Code of Practice for Chemica Type  TWA  1, 9 April 2008), as amended Type  TWA  TWA  TWA  TOOSUITE Limit Values for Chemica	Value 6 mg/m3 1 ppm 5 mg/m3 I Agents and Carcinogens Revalue 5 mg/m3  Value 5 mg/m3  inical Substances (Hygiene Novalue) 12 mg/m3	egulations
Iceland. OELs. Regulation 390/2009 Components  3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)  Triethylolamine (CAS 102-71-6) Ireland. OELVs, Schedules 1 & 2, Components  Triethylolamine (CAS 102-71-6)  Italy. OELs (Legislative Decree n.8-102-71-6)  Italy. OELs (Legislative Decree n.8-102-71-6)  Lithuania. OELs. Occupational Exp. V-824/A1-389), as amended Components  3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)	Type  TWA  TWA  Code of Practice for Chemica Type  TWA  1, 9 April 2008), as amended Type  TWA  TWA  Posure Limit Values for Chem  Type  STEL	Value 6 mg/m3 1 ppm 5 mg/m3 I Agents and Carcinogens Revalue 5 mg/m3  Value 5 mg/m3  inical Substances (Hygiene Note Value) 12 mg/m3 2 ppm	egulations
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Infection Groups for Biological Fa Components	Туре	Value	
3,6-diazaoctanethylenedia min; triethylenetetramine CAS 112-24-3)	TLV	6 mg/m3	
(CAS 112-24-3)		1 ppm	
Triethylolamine (CAS 102-71-6)	TLV	5 mg/m3	
Poland. Maximum permissible co 1286/2018, Annex 1)	ncentrations and intensities of	harmful factors in the work	environment (Dz.U.Poz.
Components	Туре	Value	
3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)	STEL	3 mg/m3	
	TWA	1 mg/m3	
Portugal. VLEs. Norm on occupa Components	tional exposure to chemical ag Type	ents (NP 1796-2014) Value	
Triethylolamine (CAS 102-71-6)	TWA	5 mg/m3	
Romania. OELs. Limit Values of ( amended)	Chemical Agents at Workplace	(Regulation 1.218/2006, M.O	845, Annex 1, 3&4, as
Components	Туре	Value	
3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)	STEL	20 mg/m3	
`		3,3 ppm	
	TWA	10 mg/m3	
		17 nnm	
		1,7 ppm	
Spain. OELs. INSST, Límites de E (VI As)	xposición Profesional Para Ag		ores Límites Ambientales
(VLAs)	exposición Profesional Para Ag Type		ores Límites Ambientale
Spain. OELs. INSST, Límites de E (VLAs) Components Triethylolamine (CAS 102-71-6)		entes Químicos, Table 1-Val	ores Límites Ambientales
(VLAs) Components Triethylolamine (CAS 102-71-6) Sweden. OELs (Annex 1). Work E	<b>Type</b> TWA	value 5 mg/m3	
(VLAs) Components Triethylolamine (CAS 102-71-6)	<b>Type</b> TWA	value 5 mg/m3	
(VLAs) Components Triethylolamine (CAS 102-71-6) Sweden. OELs (Annex 1). Work Eamended Components 3,6-diazaoctanethylenedia min; triethylenetetramine	Type  TWA  Invironment Authority (AV), Oc	Value 5 mg/m3  cupational Exposure Limit V	
(VLAs) Components Triethylolamine (CAS 102-71-6) Sweden. OELs (Annex 1). Work E	Type  TWA  Invironment Authority (AV), Oc  Type	value 5 mg/m3 cupational Exposure Limit V	
(VLAs) Components Triethylolamine (CAS 102-71-6) Sweden. OELs (Annex 1). Work Eamended Components 3,6-diazaoctanethylenedia min; triethylenetetramine	Type  TWA  Invironment Authority (AV), Oc  Type	Value 5 mg/m3  cupational Exposure Limit V  Value  12 mg/m3	
(VLAs) Components Triethylolamine (CAS 102-71-6) Sweden. OELs (Annex 1). Work Eamended Components 3,6-diazaoctanethylenedia min; triethylenetetramine	Type  TWA  Invironment Authority (AV), Oc  Type  STEL	Value 5 mg/m3  cupational Exposure Limit V  Value 12 mg/m3	
(VLAs) Components Triethylolamine (CAS 102-71-6) Sweden. OELs (Annex 1). Work Eamended Components 3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)  Triethylolamine (CAS	Type  TWA  Invironment Authority (AV), Oc  Type  STEL	Value 5 mg/m3  cupational Exposure Limit V  Value 12 mg/m3  2 ppm 6 mg/m3 1 ppm 10 mg/m3	
(VLAs) Components Triethylolamine (CAS 102-71-6) Sweden. OELs (Annex 1). Work Eamended Components 3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)  Triethylolamine (CAS	Type TWA  Invironment Authority (AV), Oct Type STEL  TWA STEL	Value 5 mg/m3  cupational Exposure Limit V  Value 12 mg/m3  2 ppm 6 mg/m3 1 ppm 10 mg/m3 1,6 ppm	
(VLAs) Components Triethylolamine (CAS 102-71-6) Sweden. OELs (Annex 1). Work Eamended Components 3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)  Triethylolamine (CAS	Type  TWA  Invironment Authority (AV), Oc  Type  STEL  TWA	Value 5 mg/m3  cupational Exposure Limit V  Value 12 mg/m3  2 ppm 6 mg/m3 1 ppm 10 mg/m3 1,6 ppm 5 mg/m3	
(VLAs) Components Triethylolamine (CAS 102-71-6) Sweden. OELs (Annex 1). Work Eamended Components 3,6-diazaoctanethylenedia min; triethylenetetramine	Type TWA  Invironment Authority (AV), Oct Type STEL  TWA STEL	Value 5 mg/m3  cupational Exposure Limit V  Value 12 mg/m3  2 ppm 6 mg/m3 1 ppm 10 mg/m3 1,6 ppm	
(VLAs) Components  Triethylolamine (CAS 102-71-6) Sweden. OELs (Annex 1). Work Eamended Components 3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)  Triethylolamine (CAS 102-71-6)	Type TWA Invironment Authority (AV), Oc Type STEL  TWA STEL  TWA  TWA  TWA  TWA  TWA  TWA	Value 5 mg/m3  cupational Exposure Limit V  Value 12 mg/m3  2 ppm 6 mg/m3 1 ppm 10 mg/m3 1,6 ppm 5 mg/m3 0,8 ppm	alues (AFS 2018:1), as
(VLAs) Components  Triethylolamine (CAS 102-71-6) Sweden. OELs (Annex 1). Work Eamended Components 3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)  Triethylolamine (CAS 102-71-6)  Switzerland. SUVA Grenzwerte at Components	Type TWA Invironment Authority (AV), Oc Type STEL  TWA STEL  TWA  TWA  TWA  TWA  TWA  TWA  TWA	Value 5 mg/m3  cupational Exposure Limit V  Value 12 mg/m3  2 ppm 6 mg/m3 1 ppm 10 mg/m3 1,6 ppm 5 mg/m3 0,8 ppm  Verte  Value	alues (AFS 2018:1), as
(VLAs) Components  Triethylolamine (CAS 102-71-6) Sweden. OELs (Annex 1). Work Eamended Components 3,6-diazaoctanethylenedia min; triethylenetetramine (CAS 112-24-3)  Triethylolamine (CAS 102-71-6)	Type TWA Invironment Authority (AV), Oc Type STEL  TWA STEL  TWA  TWA  TWA  TWA  TWA  TWA	Value 5 mg/m3  cupational Exposure Limit V  Value 12 mg/m3  2 ppm 6 mg/m3 1 ppm 10 mg/m3 1,6 ppm 5 mg/m3 0,8 ppm	alues (AFS 2018:1), as

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

Follow standard monitoring procedures.

**Biological limit values** 

procedures

**Recommended monitoring** 

Derived no effect levels

(DNELs)

Not available.

Predicted no effect concentrations (PNECs) Not available.

**Exposure guidelines** 

Czech Republic PELs: Skin designation

Triethylolamine (CAS 102-71-6) Can be absorbed through the skin.

Sweden Threshold Limit Values: Skin designation

Triethylolamine (CAS 102-71-6) Can be absorbed through the skin.

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

equipment.

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

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

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.

Colorless to light yellow. Color

Ammoniacal. Odor Not available. Melting point/freezing point

**Boiling point or initial boiling** 

point and boiling range

212 °F (100 °C) estimated

**Flammability** Not applicable. Upper/lower flammability or explosive limits

Explosive limit - lower (%) 1 % estimated 9,5 % estimated Explosive limit - upper (%)

249,8 °F (121,0 °C) estimated Flash point 561,2 °F (294 °C) estimated **Auto-ignition temperature** 

**Decomposition temperature** Not available. Not available. Ha Not available. Kinematic viscosity

Solubility

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water) (log value)

0.01 hPa estimated Vapor pressure

Material name: Chockfast Versaflow Hardener

Density and/or relative density

**Density** 0,99 g/cm3 estimated

0,95 g/cm3

Vapor densityNot available.Particle characteristicsNot 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 0,99 estimated

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 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**Contact with incompatible materials.

**10.5. Incompatible materials** Peroxides. Phenols.

10.6. Hazardous No hazardous deco

decomposition products

No hazardous decomposition products are known.

# **SECTION 11: Toxicological information**

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

Information on likely routes of exposure

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

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

**Eye contact** Causes serious eye damage.

**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.

Components Species Test Results

2,4,6-tris(dimethylaminomethyl)phenol (CAS 90-72-2)

Acute Dermal

LD50 Rat 1280 mg/kg

3,6-diazaoctanethylenediamin; triethylenetetramine (CAS 112-24-3)

**Acute** 

**Dermal** 

Liquid

LD50 Rat 1465 mg/kg

Oral

Liquid

LD50 Rat 1716 mg/kg

Triethylolamine (CAS 102-71-6)

Acute Dermal

LD50 Rabbit > 20000 mg/kg

Oral

LD50 Rat 8 g/kg

**Skin corrosion/irritation** Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

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

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.

IARC Monographs. Overall Evaluation of Carcinogenicity

Triethylolamine (CAS 102-71-6) 3 Not classifiable as to carcinogenicity to humans.

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

Mixture versus substance

information

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

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

-1

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, long term. 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

12.3. Bioaccumulative potential

**Partition coefficient** n-octanol/water (log Kow)

Triethylolamine

Not available. Bioconcentration factor (BCF) 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

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 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.

Special precautions Dispose 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. (3,6-diazaoctanethylenediamin; triethylenetetramine)

Material name: Chockfast Versaflow Hardener

```
14.3. Transport hazard class(es)
        Class
        Subsidiary risk
                                 8
        Label(s)
                                 80
        Hazard No. (ADR)
        Tunnel restriction code
                                 F
                                 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
RID
                                 UN1760
    14.1. UN number
    14.2. UN proper shipping
                                 CORROSIVE LIQUID, N.O.S. (3,6-diazaoctanethylenediamin; triethylenetetramine)
    name
    14.3. Transport hazard class(es)
        Class
                                 8
        Subsidiary risk
                                 8
        Label(s)
    14.4. Packing group
                                 Ш
    14.5. Environmental hazards No.
                                 Read safety instructions, SDS and emergency procedures before handling.
    14.6. Special precautions
    for user
ADN
    14.1. UN number
                                 UN1760
    14.2. UN proper shipping
                                 CORROSIVE LIQUID, N.O.S. (3,6-diazaoctanethylenediamin; triethylenetetramine)
    name
    14.3. Transport hazard class(es)
                                 8
        Class
        Subsidiary risk
                                 8
        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
                                 UN1760
                                 Corrosive liquid, n.o.s. (3,6-diazaoctanethylenediamin; triethylenetetramine)
    14.2. UN proper shipping
    name
    14.3. Transport hazard class(es)
                                 8
        Class
        Subsidiary risk
                                 Ш
    14.4. Packing group
    14.5. Environmental hazards No.
    ERG Code
    14.6. Special precautions
                                 Read safety instructions, SDS and emergency procedures before handling.
    for user
    Other information
        Passenger and cargo
                                 Allowed with restrictions.
        aircraft
                                 Allowed with restrictions.
        Cargo aircraft only
IMDG
    14.1. UN number
                                 UN1760
                                 CORROSIVE LIQUID, N.O.S. (3,6-diazaoctanethylenediamin; triethylenetetramine)
    14.2. UN proper shipping
    name
    14.3. Transport hazard class(es)
        Class
                                 8
        Subsidiary risk
                                 Ш
    14.4. Packing group
    14.5. Environmental hazards
        Marine pollutant
                                 No.
    EmS
                                 F-A, S-B
                                 Read safety instructions, SDS and emergency procedures before handling.
    14.6. Special precautions
```

for user

14.7. Maritime transport in bulk Not established. according to IMO instruments

ADN; ADR; IATA; IMDG; RID



# **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

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

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.

UFI:

Austria: HKE0-T0V7-X00X-AQ5V Belgium: HKE0-T0V7-X00X-AQ5V Bulgaria: HKE0-T0V7-X00X-AQ5V Croatia: HKE0-T0V7-X00X-AQ5V Cyprus: HKE0-T0V7-X00X-AQ5V

Czech Republic: HKE0-T0V7-X00X-AQ5V Denmark: HKE0-T0V7-X00X-AQ5V Estonia: HKE0-T0V7-X00X-AQ5V EU: HKE0-T0V7-X00X-AQ5V Finland: HKE0-T0V7-X00X-AQ5V France: HKE0-T0V7-X00X-AQ5V Germany: HKE0-T0V7-X00X-AQ5V Greece: HKE0-T0V7-X00X-AQ5V Hungary: HKE0-T0V7-X00X-AQ5V Iceland: HKE0-T0V7-X00X-AQ5V Ireland: HKE0-T0V7-X00X-AQ5V Italy: HKE0-T0V7-X00X-AQ5V Latvia: HKE0-T0V7-X00X-AQ5V Lithuania: HKE0-T0V7-X00X-AQ5V Luxembourg: HKE0-T0V7-X00X-AQ5V Malta: HKE0-T0V7-X00X-AQ5V Netherlands: HKE0-T0V7-X00X-AQ5V Norway: HKE0-T0V7-X00X-AQ5V Poland: HKE0-T0V7-X00X-AQ5V Portugal: HKE0-T0V7-X00X-AQ5V Romania: HKE0-T0V7-X00X-AQ5V Slovakia: HKE0-T0V7-X00X-AQ5V Slovenia: HKE0-T0V7-X00X-AQ5V

Spain: HKE0-T0V7-X00X-AQ5V Sweden: HKE0-T0V7-X00X-AQ5V

**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

2,4,6-tris(dimethylaminomethyl)phenol (CAS 90-72-2) 75

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 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**

**Austria** UFI: HKE0-T0V7-X00X-AQ5V **Belgium** UFI: HKE0-T0V7-X00X-AQ5V **Czech Republic** UFI: HKE0-T0V7-X00X-AQ5V UFI: HKE0-T0V7-X00X-AQ5V Denmark UFI: HKE0-T0V7-X00X-AQ5V **European Union** UFI: HKE0-T0V7-X00X-AQ5V **Finland** UFI: HKE0-T0V7-X00X-AQ5V France Germany UFI: HKE0-T0V7-X00X-AQ5V Greece UFI: HKE0-T0V7-X00X-AQ5V Hungary UFI: HKE0-T0V7-X00X-AQ5V Italy UFI: HKE0-T0V7-X00X-AQ5V **Netherlands** UFI: HKE0-T0V7-X00X-AQ5V UFI: HKE0-T0V7-X00X-AQ5V Norway UFI: HKE0-T0V7-X00X-AQ5V **Poland** UFI: HKE0-T0V7-X00X-AQ5V **Portugal** UFI: HKE0-T0V7-X00X-AQ5V Slovakia UFI: HKE0-T0V7-X00X-AQ5V Slovenia Spain UFI: HKE0-T0V7-X00X-AQ5V Sweden UFI: HKE0-T0V7-X00X-AQ5V UFI: HKE0-T0V7-X00X-AQ5V **Switzerland** 

15.2. Chemical safety

No Chemical Safety Assessment has been carried out.

assessment

# **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

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

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

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eve damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage. H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

Physical & Chemical Properties: Multiple Properties

Follow training instructions when handling this material.

**Revision information Training information** 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 Versaflow Hardener

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