

SAFETY DATA SHEET

Version #: 04

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

1.1. Product identifier

Trade name or designation of the mixture Phillyclad 620TS Hardener

Registration number -

Synonyms None.

SKU# DM017H

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

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 +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.)

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	113
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 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

Acute toxicity, oral	Category 4	H302 - Harmful if swallowed.
Acute toxicity, dermal	Category 4	H312 - Harmful in contact with skin.
Skin corrosion/irritation	Category 1B	H314 - Causes severe skin burns 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

Hazardous to the aquatic environment, long-term aquatic hazard	Category 3	H412 - Harmful to aquatic life with long lasting effects.
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2.2. Label elements

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

UFI:

Austria: EJD0-R0KG-9000-DM63
Belgium: EJD0-R0KG-9000-DM63
Bulgaria: EJD0-R0KG-9000-DM63
Croatia: EJD0-R0KG-9000-DM63
Cyprus: EJD0-R0KG-9000-DM63
Czech Republic: EJD0-R0KG-9000-DM63
Denmark: EJD0-R0KG-9000-DM63
Estonia: EJD0-R0KG-9000-DM63
EU: EJD0-R0KG-9000-DM63
Finland: EJD0-R0KG-9000-DM63
France: EJD0-R0KG-9000-DM63
Germany: EJD0-R0KG-9000-DM63
Greece: EJD0-R0KG-9000-DM63
Hungary: EJD0-R0KG-9000-DM63
Iceland: EJD0-R0KG-9000-DM63
Ireland: EJD0-R0KG-9000-DM63
Italy: EJD0-R0KG-9000-DM63
Latvia: EJD0-R0KG-9000-DM63
Lithuania: EJD0-R0KG-9000-DM63
Luxembourg: EJD0-R0KG-9000-DM63
Malta: EJD0-R0KG-9000-DM63
Netherlands: EJD0-R0KG-9000-DM63
Norway: EJD0-R0KG-9000-DM63
Poland: EJD0-R0KG-9000-DM63
Portugal: EJD0-R0KG-9000-DM63
Romania: EJD0-R0KG-9000-DM63
Slovakia: EJD0-R0KG-9000-DM63
Slovenia: EJD0-R0KG-9000-DM63
Spain: EJD0-R0KG-9000-DM63
Sweden: EJD0-R0KG-9000-DM63

Contains:

2,2'-iminodiethylamine; diethylenetriamine, 2,4,6-tris(dimethylaminomethyl)phenol, 3,6,9-triazaundecamethylenediamine; tetraethylenepentamine, Amidoamine

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.
H412 Harmful 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: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage

P405 Store locked up.

Disposal

Supplemental label information 89,32% of the mixture consists of component(s) of unknown acute oral toxicity. 99,99% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 95,14% 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.	REACH Registration No.	Index No.	Notes
Amidoamine	60 - 100	68953-36-6 273-201-6	-	-	
Classification: -					
3,6,9-triazaundecamethylenediamine; tetraethylenepentamine	10 - 30	112-57-2 203-986-2	-	612-060-00-0	
Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Acute Tox. 4;H312;(ATE: 1100 mg/kg bw), Skin Corr. 1B;H314, Eye Dam. 1;H318, Skin Sens. 1;H317, Aquatic Chronic 2;H411					
2,4,6-tris(dimethylaminomethyl)pheno l	1 - 5	90-72-2 202-013-9	-	603-069-00-0	
Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Acute Tox. 4;H312;(ATE: 1280 mg/kg bw), Skin Irrit. 2;H315, Eye Irrit. 2;H319					
2,2'-iminodiethylamine; diethylenetriamine	1 - < 3	111-40-0 203-865-4	-	612-058-00-X	
Classification: Acute Tox. 4;H302;(ATE: 500 mg/kg bw), Acute Tox. 4;H312;(ATE: 1100 mg/kg bw), Skin Corr. 1B;H314, Eye Dam. 1;H318, Skin Sens. 1;H317					
Other components below reportable levels	0,1 - 1				

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. 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.

Ingestion

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

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

Components	Type	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	MAK	4 mg/m ³
		1 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	Type	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA	4,3 mg/m ³
		1 ppm

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

Components	Type	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA	4 mg/m ³

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
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	MAC	4,3 mg/m ³
		1 ppm

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

Components	Type	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA	4 mg/m ³
		1 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	Type	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	Ceiling	8 mg/m ³
	TWA	4 mg/m ³

Denmark. Work Environment Authority. Exposure Limits for Substances & Materials, Annex 2

Components	Type	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TLV	4 mg/m ³
		1 ppm

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances (Regulation No. 105/2001, Annex), as amended

Components	Type	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	STEL	10 mg/m ³
		2 ppm
	TWA	4,5 mg/m ³ 1 ppm

Finland. HTP-arvot, App 3., Binding Limit Values, Social Affairs and Ministry of Health

Components	Type	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	STEL	13 mg/m ³
		3 ppm
	TWA	4,3 mg/m ³ 1 ppm

France. Threshold Limit Values (VLEP) for Occupational Exposure to Chemicals in France, INRS ED 984

Components	Type	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	VME	4 mg/m3
Regulatory status:	Indicative limit (VL)	1 ppm
Regulatory status:	Indicative limit (VL)	

Greece. OELs, Presidential Decree No. 307/1986, as amended

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

Hungary. OELs. Decree on protection of workers exposed to chemical agents (5/2020. (II.6)), Annex 1&2, as amended

Components	Type	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	STEL	8 mg/m3
	TWA	4 mg/m3

Iceland. OELs. Regulation 390/2009 on Pollution Limits and Measures to Reduce Pollution at the Workplace, as amended

Components	Type	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA	4,5 mg/m3
		1 ppm

Ireland. OELVs, Schedules 1 & 2, Code of Practice for Chemical Agents and Carcinogens Regulations

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

Italy. OELs (Legislative Decree n.81, 9 April 2008), as amended

Components	Type	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA	1 ppm

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

Components	Type	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	STEL	10 mg/m3
		2 ppm
	TWA	4,5 mg/m3
		1 ppm

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

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

Components	Type	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	STEL	12 mg/m ³
	TWA	4 mg/m ³

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

Components	Type	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA	1 ppm

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

Components	Type	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	STEL	4 mg/m ³
	TWA	1 ppm
		2 mg/m ³ 0,5 ppm

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

Components	Type	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA	4,3 mg/m ³
		1 ppm

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

Components	Type	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	STEL	10 mg/m ³
	TWA	2 ppm 4,5 mg/m ³
		1 ppm

Switzerland. SUVA Grenzwerte am Arbeitsplatz: Aktuelle MAK-Werte

Components	Type	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA	4 mg/m ³
		1 ppm

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

Components	Type	Value
2,2'-iminodiethylamine; diethylenetriamine (CAS 111-40-0)	TWA	4,3 mg/m ³
		1 ppm

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.

Exposure guidelines

Belgium OELs: Skin designation

2,2'-iminodiethylamine; diethylenetriamine
(CAS 111-40-0) Can be absorbed through the skin.

Cyprus OEL: Skin designation

2,2'-iminodiethylamine; diethylenetriamine
(CAS 111-40-0) Can be absorbed through the skin.

Denmark GV: Skin designation

2,2'-iminodiethylamine; diethylenetriamine
(CAS 111-40-0) Can be absorbed through the skin.

Estonia OELs: Skin designation

2,2'-iminodiethylamine; diethylenetriamine
(CAS 111-40-0) Can be absorbed through the skin.

Finland Exposure Limit Values: Skin designation

2,2'-iminodiethylamine; diethylenetriamine
(CAS 111-40-0) Can be absorbed through the skin.

Greece OEL: Skin designation

2,2'-iminodiethylamine; diethylenetriamine
(CAS 111-40-0) Can be absorbed through the skin.

Hungary OELs: Skin designation

2,2'-iminodiethylamine; diethylenetriamine
(CAS 111-40-0) Can be absorbed through the skin.

Iceland OELs: Skin designation

2,2'-iminodiethylamine; diethylenetriamine
(CAS 111-40-0) Can be absorbed through the skin.

Ireland Exposure Limit Values: Skin designation

2,2'-iminodiethylamine; diethylenetriamine
(CAS 111-40-0) Can be absorbed through the skin.

Italy OELs: Skin designation

2,2'-iminodiethylamine; diethylenetriamine
(CAS 111-40-0) Danger of cutaneous absorption

Lithuania OELs: Skin designation

2,2'-iminodiethylamine; diethylenetriamine
(CAS 111-40-0) Can be absorbed through the skin.

Norway Exposure Limit Values: Skin designation

2,2'-iminodiethylamine; diethylenetriamine
(CAS 111-40-0) Can be absorbed through the skin.

Portugal VLEs Norm on Occupational Exposure: Skin designation

2,2'-iminodiethylamine; diethylenetriamine
(CAS 111-40-0) Can be absorbed through the skin.

Romania OELs: Skin designation

2,2'-iminodiethylamine; diethylenetriamine
(CAS 111-40-0) Can be absorbed through the skin.

Spain OELs: Skin designation

2,2'-iminodiethylamine; diethylenetriamine
(CAS 111-40-0) Can be absorbed through the skin.

Sweden Threshold Limit Values: Skin designation

2,2'-iminodiethylamine; diethylenetriamine
(CAS 111-40-0) Can be absorbed through the skin.

Switzerland SUVA Limit Values at the Workplace: Skin designation

2,2'-iminodiethylamine; diethylenetriamine
(CAS 111-40-0) Can be absorbed through the skin.

UK EH40 WEL: Skin designation

2,2'-iminodiethylamine; diethylenetriamine
(CAS 111-40-0) 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.

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	Liquid.
Form	Liquid.
Color	Amber
Odor	Amine-like.
Melting point/freezing point	Not available.
Boiling point or initial boiling point and boiling range	Not available.
Flammability	Not applicable.
Flash point	>200,0 °F (>93,3 °C)
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
pH	Not available.
Kinematic viscosity	Not available.
Solubility	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water) (log value)	Not available.
Vapor pressure	1,33 hPa estimated
Density and/or relative density	
Density	0,95 g/cm ³
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	0,95
VOC	0 Mixed components

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 temperatures exceeding the flash point. Contact with incompatible materials.
10.5. Incompatible materials	Strong oxidizing agents.
10.6. Hazardous 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
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2,4,6-tris(dimethylaminomethyl)phenol (CAS 90-72-2)

Acute

Dermal

LD50

Rat

1280 mg/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.

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.

Reproductive toxicity Not applicable.

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

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

Partition coefficient

n-octanol/water (log K_{ow})

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

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.
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 precautions	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number	UN1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N.O.S. (Amidoamine)
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 for user	Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number	UN1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N.O.S. (Amidoamine)
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 for user	Read safety instructions, SDS and emergency procedures before handling.

ADN

14.1. UN number	UN1760
14.2. UN proper shipping name	CORROSIVE LIQUID, N.O.S. (Amidoamine)
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 for user	Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number	UN1760
14.2. UN proper shipping name	Corrosive liquid, n.o.s. (Amidoamine)
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 for user Read safety instructions, SDS and emergency procedures before handling.

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 name CORROSIVE LIQUID, N.O.S. (Amidoamine)
14.3. Transport hazard class(es)
Class 8
Subsidiary risk -
14.4. Packing group III
14.5. Environmental hazards
Marine pollutant No.
EmS F-A, S-B
14.6. Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

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

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

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: EJD0-R0KG-9000-DM63
Belgium: EJD0-R0KG-9000-DM63
Bulgaria: EJD0-R0KG-9000-DM63
Croatia: EJD0-R0KG-9000-DM63
Cyprus: EJD0-R0KG-9000-DM63
Czech Republic: EJD0-R0KG-9000-DM63
Denmark: EJD0-R0KG-9000-DM63
Estonia: EJD0-R0KG-9000-DM63
EU: EJD0-R0KG-9000-DM63
Finland: EJD0-R0KG-9000-DM63
France: EJD0-R0KG-9000-DM63
Germany: EJD0-R0KG-9000-DM63
Greece: EJD0-R0KG-9000-DM63
Hungary: EJD0-R0KG-9000-DM63
Iceland: EJD0-R0KG-9000-DM63
Ireland: EJD0-R0KG-9000-DM63
Italy: EJD0-R0KG-9000-DM63
Latvia: EJD0-R0KG-9000-DM63
Lithuania: EJD0-R0KG-9000-DM63
Luxembourg: EJD0-R0KG-9000-DM63
Malta: EJD0-R0KG-9000-DM63
Netherlands: EJD0-R0KG-9000-DM63
Norway: EJD0-R0KG-9000-DM63
Poland: EJD0-R0KG-9000-DM63
Portugal: EJD0-R0KG-9000-DM63
Romania: EJD0-R0KG-9000-DM63
Slovakia: EJD0-R0KG-9000-DM63
Slovenia: EJD0-R0KG-9000-DM63
Spain: EJD0-R0KG-9000-DM63
Sweden: EJD0-R0KG-9000-DM63

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: EJD0-R0KG-9000-DM63
Belgium	UFI: EJD0-R0KG-9000-DM63
Czech Republic	UFI: EJD0-R0KG-9000-DM63
Denmark	UFI: EJD0-R0KG-9000-DM63
European Union	UFI: EJD0-R0KG-9000-DM63
Finland	UFI: EJD0-R0KG-9000-DM63
France	UFI: EJD0-R0KG-9000-DM63
Germany	UFI: EJD0-R0KG-9000-DM63
Greece	UFI: EJD0-R0KG-9000-DM63
Hungary	UFI: EJD0-R0KG-9000-DM63
Italy	UFI: EJD0-R0KG-9000-DM63
Netherlands	UFI: EJD0-R0KG-9000-DM63
Norway	UFI: EJD0-R0KG-9000-DM63
Poland	UFI: EJD0-R0KG-9000-DM63
Portugal	UFI: EJD0-R0KG-9000-DM63
Slovakia	UFI: EJD0-R0KG-9000-DM63

Slovenia
Spain
Sweden
Switzerland

UFI: EJD0-R0KG-9000-DM63
UFI: EJD0-R0KG-9000-DM63
UFI: EJD0-R0KG-9000-DM63
UFI: EJD0-R0KG-9000-DM63

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.
Not available.

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

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
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.