TEAM® Industrial Services

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation of the mixture	B-400 Catalyst
Registration number	-
Synonyms	None.
Product code	903-0009
Issue date	11-September-2013
Version number	00
Revision date	11-September-2013
Supersedes date	-

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

Identified uses	Industrial Leak Sealant.
Uses advised against	None known.

1.3. Details of the supplier of the safety data sheet

Manufacturer/Supplier	Team Industrial Services, Inc.
Address	Postbus 37 4380 AA Vlissingen 3237 The Netherlands
Telephone	+31 (0) 118 48 58 00
Fax	+31 (0) 118 48 58 86
e-mail	Not available.
Contact person	Not available.
1.4. Emergency telephone number	+(61)-290372994, +1 703-527-3887

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 Directive 67/548/EEC or 1999/45/EC as amended

Classification	Repr. Cat. 3;R62, C;R34, Xn;R21/22, Xi;R37, R43

The full text for all R-phrases is displayed in section 16.

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

Health hazards

Skin corrosion/irritation	Category 1B	H314 - Causes severe skin burns and eye damage.
Skin sensitisation	Category 1	H317 - May cause an allergic skin reaction.
Reproductive toxicity	Category 2	H361f - Suspected of damaging fertility.
Specific target organ toxicity - single exposure	Category 3 respiratory tract irritation	H335 - May cause respiratory irritation.

Hazard summary

Physical hazards	Not classified for physical hazards.
Health hazards	Harmful in contact with skin and if swallowed. Causes burns. Irritating to respiratory system. May cause sensitisation by skin contact. Possible risk of impaired fertility. Occupational exposure to the substance or mixture may cause adverse health effects.
Environmental hazards	Not classified for hazards to the environment.
Specific hazards	Ingestion causes burns of the upper digestive and respiratory tracts.
Main symptoms	Skin and eye burns. May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. Sensitisation. Ingestion may cause irritation and malaise.

2.2. Label elements

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

Contains: 2-Ethylhexyl glycidyl ether, 2-Piperazin-1-ylethylamine, Amine Adduct, Bisphenol A, Diethylene triamine

Hazard pictograms

Signal word Danger

Hazard statements
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H335 - May cause respiratory irritation.
H361f - Suspected of damaging fertility.

Precautionary statements

Prevention
P264 - Wash thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

Response
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTRE or doctor/physician.

Storage P405 - Store locked up.

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

Supplemental label information Not applicable.

2.3. Other hazards Not a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Bisphenol A	15	80-05-7 201-245-8	-	604-030-00-0	#
Classification: **DSD:** Repr. Cat. 3;R62, Xi;R37-41, R43, R52					
CLP: Skin Sens. 1;H317, Eye Dam. 1;H318, STOT SE 3;H335, Repr. 2;H361f, Aquatic Chronic 2;H411					
Modified polyamido amine	13	68953-36-6 273-201-6	-	-	
Classification: **DSD:** -					
CLP: -					
Diethylenetriamine	8	111-40-0 203-865-4	-	612-058-00-X	
Classification: **DSD:** C;R34, Xn;R21/22, R43					
CLP: Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Corr. 1B;H314, Skin Sens. 1;H317					
2-Ethylhexyl glycidyl ether	7	2461-15-6 219-553-6	-	-	
Classification: **DSD:** Xi;R36/38, R43					
CLP: Skin Irrit. 2;H315, Skin Sens. 1;H317, Eye Irrit. 2;H319					
2-Piperazin-1-ylethylamine	6	140-31-8 205-411-0	-	612-105-00-4	
Classification: **DSD:** C;R34, Xn;R21/22, R43, R52/53					
CLP: Acute Tox. 4;H302, Acute Tox. 4;H312, Skin Corr. 1B;H314, Skin Sens. 1;H317, Aquatic Chronic 3;H412					

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Amine Adduct	5	68605-86-7 -	-	-	

Classification: **DSD:** T;R24, C;R34

CLP: Acute Tox. 3;H311, Skin Corr. 1B;H314, Eye Dam. 1;H318

DSD: Directive 67/548/EEC.
CLP: Regulation No. 1272/2008.
#: This substance has workplace exposure limit(s).

Composition comments All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The full text for all R- and H-phrases 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. Chemical burns must be treated by a physician.

4.1. Description of first aid measures

Inhalation Remove to fresh air. If breathing stops, provide artificial respiration. Get medical attention immediately.

Skin contact Remove contaminated clothing. Wash immediately with soap and water for at least 15 minutes. Get medical attention immediately! In case of allergic reaction or other skin disorders: Seek medical attention and bring along these instructions.

Eye contact Flush thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention immediately.

Ingestion Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and take these instructions.

4.2. Most important symptoms and effects, both acute and delayed Skin and eye burns. May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. Sensitisation. Upper respiratory tract irritation. Ingestion may cause irritation and malaise.

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

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing media Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing media No restrictions known.

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. Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Special fire fighting procedures Use standard firefighting procedures and consider the hazards of other involved materials. Cool material exposed to heat with water spray and remove it if no risk is involved.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Avoid inhalation of vapours and contact with skin and eyes. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see section 8 of the SDS.

For emergency responders Keep unnecessary personnel away. Use personal protection recommended in Section 8 of the SDS.

6.2. Environmental precautions Prevent entry into waterways, sewer, basements or confined areas. Environmental manager must be informed of all major spillages.

6.3. Methods and material for containment and cleaning up

Collect and dispose of spillage as indicated in section 13 of the SDS. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Wipe up with absorbent material (e.g. cloth, fleece). Should not be released into the environment. Never return spills in original containers for re-use. Prevent product from entering drains.

6.4. Reference to other sections

For personal protection, see section 8 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Provide adequate ventilation. Avoid inhalation of vapours and contact with skin and eyes. Wear personal protective equipment. Wash hands thoroughly after handling. Pregnant women should not work with the product, if there is the least risk of exposure. Persons susceptible for allergic reactions should not handle this product. Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container. Store in a cool and well-ventilated place. Store away from incompatible materials.

7.3. Specific end use(s)

Industrial Leak Sealant.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

Austria. MAK List

Components	Type	Value	Form
Bisphenol A (CAS 80-05-7)	Ceiling	5 mg/m3	Inhalable fraction.
	MAK	5 mg/m3	Inhalable fraction.
Diethylenetriamine (CAS 111-40-0)	MAK	4 mg/m3	
		1 ppm	

Belgium. Exposure Limit Values.

Components	Type	Value
Bisphenol A (CAS 80-05-7)	TWA	10 mg/m3
Diethylenetriamine (CAS 111-40-0)	TWA	4,3 mg/m3
		1 ppm

Bulgaria. OELs. Regulation No 13 on protection of workers against risks of exposure to chemical agents at work

Components	Type	Value
Diethylenetriamine (CAS 111-40-0)	TWA	4 mg/m3

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

Components	Type	Value
Diethylenetriamine (CAS 111-40-0)	TWA	4 mg/m3
		1 ppm

Czech Republic. OELs. Government Decree 361

Components	Type	Value	Form
Bisphenol A (CAS 80-05-7)	Ceiling	5 mg/m3	Dust/aerosol.
	TWA	2 mg/m3	Dust/aerosol.
Diethylenetriamine (CAS 111-40-0)	Ceiling	8 mg/m3	
	TWA	4 mg/m3	

Denmark. Exposure Limit Values

Components	Type	Value	Form
Bisphenol A (CAS 80-05-7)	TLV	3 mg/m3	Particulate.
Diethylenetriamine (CAS 111-40-0)	TLV	4 mg/m3	
		1 ppm	

Estonia. OELs. Occupational Exposure Limits of Hazardous Substances. (Annex of Regulation No. 293 of 18 September 2001)

Components	Type	Value
Bisphenol A (CAS 80-05-7)	TWA	10 mg/m3
Diethylenetriamine (CAS 111-40-0)	STEL	10 mg/m3
		2 ppm
	TWA	4,5 mg/m3
		1 ppm

Finland. Workplace Exposure Limits

Components	Type	Value
Bisphenol A (CAS 80-05-7)	TWA	5 mg/m3
Diethylenetriamine (CAS 111-40-0)	STEL	13 mg/m3
		3 ppm
	TWA	4,3 mg/m3
		1 ppm

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

Components	Type	Value	Form
Bisphenol A (CAS 80-05-7)	VME	10 mg/m3	Inhalable dust.
Diethylenetriamine (CAS 111-40-0)	VME	4 mg/m3	
		1 ppm	

Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Components	Type	Value	Form
Bisphenol A (CAS 80-05-7)	TWA	5 mg/m3	Inhalable fraction.

Germany. TRGS 900, Limit Values in the Ambient Air at the Workplace

Components	Type	Value	Form
Bisphenol A (CAS 80-05-7)	AGW	5 mg/m3	Inhalable fraction.

Greece. OELs (Decree No. 90/1999, as amended)

Components	Type	Value
Diethylenetriamine (CAS 111-40-0)	TWA	4 mg/m3
		1 ppm

Hungary. OELs. Joint Decree on Chemical Safety of Workplaces

Components	Type	Value
Bisphenol A (CAS 80-05-7)	TWA	10 mg/m3
Diethylenetriamine (CAS 111-40-0)	STEL	4 mg/m3
	TWA	4 mg/m3

Iceland. OELs. Regulation 154/1999 on occupational exposure limits

Components	Type	Value
Diethylenetriamine (CAS 111-40-0)	TWA	4 mg/m3
		1 ppm

Ireland. Occupational Exposure Limits

Components	Type	Value	Form
Bisphenol A (CAS 80-05-7)	TWA	10 mg/m3	Inhalable dust.
Diethylenetriamine (CAS 111-40-0)	TWA	4 mg/m3	
		1 ppm	

Italy. OELs

Components	Type	Value	Form
Bisphenol A (CAS 80-05-7)	TWA	10 mg/m3	Inhalable dust.

Italy. OELs

Components	Type	Value	Form
Diethylenetriamine (CAS 111-40-0)	TWA	1 ppm	

Lithuania. OELs. Limit Values for Chemical Substances, General Requirements (Hygiene Norm HN 23:2007)

Components	Type	Value	Form
Bisphenol A (CAS 80-05-7)	TWA	10 mg/m3	Respirable dust.
Diethylenetriamine (CAS 111-40-0)	STEL	10 mg/m3	
		2 ppm	
	TWA	4,5 mg/m3	
		1 ppm	

Luxembourg. Binding Occupational exposure limit values (Annex I), Memorial A

Components	Type	Value	Form
Bisphenol A (CAS 80-05-7)	TWA	10 mg/m3	Inhalable dust.

Netherlands. OELs (binding)

Components	Type	Value	Form
Bisphenol A (CAS 80-05-7)	TWA	10 mg/m3	Inhalable fraction.

Norway. Administrative Norms for Contaminants in the Workplace

Components	Type	Value	Form
Bisphenol A (CAS 80-05-7)	TLV	10 mg/m3	Inhalable fraction.
Diethylenetriamine (CAS 111-40-0)	TLV	4 mg/m3	
		1 ppm	

Poland. MACs. Minister of Labour and Social Policy Regarding Maximum Allowable Concentrations and Intensities in Working Environment

Components	Type	Value	Form
Bisphenol A (CAS 80-05-7)	STEL	10 mg/m3	Dust.
	TWA	5 mg/m3	Dust.
Diethylenetriamine (CAS 111-40-0)	STEL	12 mg/m3	
	TWA	4 mg/m3	

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

Components	Type	Value
Diethylenetriamine (CAS 111-40-0)	TWA	1 ppm

Romania. OELs. Protection of workers from exposure to chemical agents at the workplace

Components	Type	Value
Diethylenetriamine (CAS 111-40-0)	STEL	4 mg/m3
		1 ppm
	TWA	2 mg/m3
		0,5 ppm

Slovakia. OELs. Decree of the government of the Slovak Republic concerning protection of health in work with chemical agents

Components	Type	Value	Form
Bisphenol A (CAS 80-05-7)	TWA	10 mg/m3	Inhalable fraction.

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

Components	Type	Value	Form
Bisphenol A (CAS 80-05-7)	TWA	5 mg/m3	Inhalable fraction.

Spain. Occupational Exposure Limits

Components	Type	Value
Diethylenetriamine (CAS 111-40-0)	TWA	4,3 mg/m3
		1 ppm

Sweden. Occupational Exposure Limit Values

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

Switzerland. SUVA Grenzwerte am Arbeitsplatz

Components	Type	Value	Form
Bisphenol A (CAS 80-05-7)	STEL	5 mg/m3	Inhalable dust.
	TWA	5 mg/m3	Inhalable dust.
Diethylenetriamine (CAS 111-40-0)	TWA	4 mg/m3	
		1 ppm	

UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value	Form
Bisphenol A (CAS 80-05-7)	TWA	10 mg/m3	Inhalable dust.
Diethylenetriamine (CAS 111-40-0)	TWA	4,3 mg/m3	
		1 ppm	

EU. Indicative Exposure Limit Values in Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU

Components	Type	Value	Form
Bisphenol A (CAS 80-05-7)	TWA	10 mg/m3	Inhalable dust.

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

Recommended monitoring procedures Follow standard monitoring procedures.

Derived no-effect level (DNEL) Not available.

Predicted no effect concentrations (PNECs) Not available.

8.2. Exposure controls

Appropriate engineering controls General ventilation normally adequate. Ensure adequate ventilation, especially in confined areas. Provide easy access to water supply and eye wash facilities.

Individual protection measures, such as personal protective equipment

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

Eye/face protection Wear approved chemical safety goggles. Use face shield in case of splash risk.

Skin protection

- Hand protection Wear appropriate chemical resistant gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Suitable gloves can be recommended by the glove supplier.

- Other Wear appropriate chemical resistant clothing.

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.

In case of inadequate ventilation, use respiratory protection. Use respiratory equipment with combination filter, type A2/P2.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures 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. Observe any medical surveillance requirements.

Environmental exposure controls Environmental manager must be informed of all major spillages.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Blue liquid.
Physical state	Liquid.
Form	Liquid.
Colour	Blue.
Odour	Odourless.
Odour threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	> 65 °C (> 149 °F)
Flash point	> 100,0 °C (> 212,0 °F) Closed cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	1
Solubility(ies)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	5500 cSt
Explosive properties	Not available.
Oxidizing properties	Not available.
9.2. Other information	No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. Reactivity	Stable at normal conditions.
10.2. Chemical stability	The product is stable and non reactive under normal conditions of use, storage and transport.
10.3. Possibility of hazardous reactions	Hazardous polymerisation does not occur.
10.4. Conditions to avoid	Exposure to temperatures of 572 °F (300°C) and above.
10.5. Incompatible materials	Strong acids. Strong oxidising agents. Aldehydes. Ketones. Organic halides.
10.6. Hazardous decomposition products	Carbon dioxide. Carbon oxides. Nitrogen oxides. Ammonia.

SECTION 11: Toxicological information

General information	Occupational exposure to the substance or mixture may cause adverse effects.
Information on likely routes of exposure	
Ingestion	Causes digestive tract burns.
Inhalation	Causes respiratory tract burns.
Skin contact	May cause an allergic skin reaction. Causes skin burns.
Eye contact	Causes eye burns.
Symptoms	Skin and eye burns. May cause severe irritation or burns to the eyes, skin, gastrointestinal tract, and respiratory system. Sensitisation. Upper respiratory tract irritation. Ingestion may cause irritation and malaise.

11.1. Information on toxicological effects

Acute toxicity	Causes skin, eye and digestive tract burns.

Components	Species	Test results
Bisphenol A (CAS 80-05-7)		
Acute		
Oral		
LD50	Rat	3300 mg/kg

Skin corrosion/irritation	Causes skin burns.
Serious eye damage/eye irritation	Causes eye burns.
Respiratory sensitisation	No data available.
Skin sensitisation	May cause allergic skin reaction.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Carcinogenicity	Not classified.
Reproductive toxicity	Suspected of damaging fertility.
Specific target organ toxicity - single exposure	No data available.
Specific target organ toxicity - repeated exposure	No data available.
Aspiration hazard	Not classified.
Mixture versus substance information	Not available.
Other information	No data available.

SECTION 12: Ecological information

12.1. Toxicity The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Components		Species	Test results
2-Piperazin-1-ylethylamine (CAS 140-31-8)			
Aquatic			
Fish	LC50	Fathead minnow (Pimephales promelas)	1950 - 2460 mg/l, 96 hours
Bisphenol A (CAS 80-05-7)			
Aquatic			
Crustacea	EC50	Water flea (Daphnia magna)	9,2 - 11,4 mg/l, 48 hours
Fish	LC50	Fathead minnow (Pimephales promelas)	3,6 - 5,4 mg/l, 96 hours

12.2. Persistence and degradability	No data available.
12.3. Bioaccumulative potential	
Partition coefficient n-octanol/water (log Kow)	
Bisphenol A (CAS 80-05-7)	3,32
Bioconcentration factor (BCF)	Not available.
12.4. Mobility in soil	Not available.
Mobility in general	The product is soluble in water.
12.5. Results of PBT and vPvB assessment	Not a PBT or vPvB substance or mixture.
12.6. Other adverse effects	The product contains a substance which is harmful to aquatic organisms and which may cause long-term adverse effects in the aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste	Dispose of in accordance with local regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.
EU waste code	08 04 09*
Disposal methods/information	Dispose in accordance with all applicable regulations.

SECTION 14: Transport information

ADR

14.1. UN number	UN2735
14.2. UN proper shipping name	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Modified polyamido amine, Diethylenetriamine)
14.3. Transport hazard class(es)	8
Subsidiary class(es)	-
14.4. Packing group	III
14.5. Environmental hazards	No
Tunnel restriction code	E
Labels required	8
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

RID

14.1. UN number	UN2735
14.2. UN proper shipping name	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Modified polyamido amine, Diethylenetriamine)
14.3. Transport hazard class(es)	8
Subsidiary class(es)	-
14.4. Packing group	III
14.5. Environmental hazards	No
Labels required	8
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

ADN

14.1. UN number	UN2735
14.2. UN proper shipping name	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Modified polyamido amine, Diethylenetriamine)
14.3. Transport hazard class(es)	8
Subsidiary class(es)	-
14.4. Packing group	III
14.5. Environmental hazards	No
Labels required	8
14.6. Special precautions for user	Read safety instructions, SDS and emergency procedures before handling.

IATA

14.1. UN number	UN2735
14.2. UN proper shipping name	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Modified polyamido amine, Diethylenetriamine)
14.3. Transport hazard class(es)	8
Subsidiary class(es)	-
14.4. Packing group	III
14.5. Environmental hazards	No
Labels required	8
ERG code	8L
14.6. Special precautions for user	Read safety instructions, MSDS and emergency procedures before handling.

IMDG

14.1. UN number	UN2735
14.2. UN proper shipping name	POLYAMINES, LIQUID, CORROSIVE, N.O.S. (Modified polyamido amine, Diethylenetriamine)
14.3. Transport hazard class(es)	8
Subsidiary class(es)	-
14.4. Packing group	III
14.5. Environmental hazards	
Marine pollutant	No
Labels required	8
EmS	F-A, S-B
14.6. Special precautions for user	Read safety instructions, MSDS and emergency procedures before handling.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

This substance/mixture is not intended to be transported in bulk.

SECTION 15: Regulatory information

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

EU regulations

F - Highly flammable

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

Not listed.

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

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 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

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(1) Candidate List as currently published by ECHA

Not listed.

Authorisations

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

Bisphenol A (CAS 80-05-7)

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

Not regulated.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not regulated.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not regulated.

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

2-Piperazin-1-ylethylamine (CAS 140-31-8)
Bisphenol A (CAS 80-05-7)
Diethylenetriamine (CAS 111-40-0)

Directive 94/33/EC on the protection of young people at work

2-Piperazin-1-ylethylamine (CAS 140-31-8)
Bisphenol A (CAS 80-05-7)
Diethylenetriamine (CAS 111-40-0)

Other regulations

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

National regulations

Young people under 18 years old are not allow to work with this product according to the EU Directive 94/33/EC on the protection of young people at work. Pregnant women should not work with the product, if there is the least risk of exposure. Follow national regulation for work with chemical agents.

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

List of abbreviations	DNEL: Derived No-Effect Level. PNEC: Predicted No-Effect Concentration. PBT: Persistent, bioaccumulative and toxic. vPvB: Very Persistent and very Bioaccumulative. DSD: Directive 67/548/EEC. CLP: Regulation No. 1272/2008.
References	ESIS (European chemical Substances Information System) HSDB® - Hazardous Substances Data Bank IARC Monographs. Overall Evaluation of Carcinogenicity
Information on evaluation method leading to the classification of mixture	The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if available. For details, refer to Sections 9, 11 and 12.
Full text of any statements or R-phrases and H-statements under Sections 2 to 15	R21/22 Harmful in contact with skin and if swallowed. R24 Toxic in contact with skin. R34 Causes burns. R36/38 Irritating to eyes and skin. R37 Irritating to respiratory system. R41 Risk of serious damage to eyes. R43 May cause sensitisation by skin contact. R52 Harmful to aquatic organisms. R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R62 Possible risk of impaired fertility. H302 Harmful if swallowed. H311 Toxic in contact with skin. 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. H335 May cause respiratory irritation. H361f Suspected of damaging fertility. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.
Training information	Follow training instructions when handling this material.
Disclaimer	The information in the sheet was written based on the best knowledge and experience currently available.