SAFETY DATA SHEET

DELO-DUOPOX® AD895 Component B



SDS number: AD895 Komp. B

Date of first issue : 2011-11-11

Date of revision : 2021-10-15

Safety Data Sheet according to GB/T 16483-2008 and GB/T 17519-2013

Section 1. Chemical product and company identification

Product name	: DELO-DUOPOX [®] AD895 Component B
Recommended use	: Adhesive.
Manufacturer	: DELO Industrie Klebstoffe GmbH & Co. KGaA DELO-Allee 1 86949 Windach Germany Telephone no.:+49 8193 9900-0
Corporate Information	: 德路工业粘合剂(上海)有限公司 地址:上海市浦东新区张东路1387号2号楼102室 电话:+86 21 6882 8300 传真:+86 21 28986533 邮编: 201203
Email	: sds@DELO.de
Emergency telephone number	: +86 532 8388 9090 (24-hour)

Section 2. Hazards identification

Classification of the substance or mixture according to GB 13690-2009 and GB 30000-2013

Emergency overview

Liquid.

Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Harmful to aquatic life. Harmful to aquatic life with long lasting effects. Air contaminants may be formed during use of the product.

IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. IF ON SKIN (or hair): Immediately call a POISON CENTER or doctor. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Immediately call a POISON CENTER or doctor.

See Section 12 for environmental precautions.

Classification of the substance or mixture

: SKIN CORROSION/IRRITATION - Category 1B RESPIRATORY SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 AQUATIC HAZARD (ACUTE) - Category 3 AQUATIC HAZARD (LONG-TERM) - Category 3

GHS label elements Hazard pictograms



Section 2. Hazards identification

Signal word	
	: Danger
Hazard statements	: Causes severe skin burns and eye damage.
	May cause an allergic skin reaction.
	Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	Harmful to aquatic life.
	Harmful to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: Wear protective gloves: 1 - 4 hours (breakthrough time): Recommended: Viton® fluor rubber / Short term exposure < 15 min Nitrile gloves. Wear protective clothing. Wear eye or face protection. Wear respiratory protection: Recommended: organic vapor filter (Type A). Avoid release to the environment. Avoid breathing vapor. Wash thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. If experiencing respiratory symptoms: Call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. 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 or doctor.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Physical and chemical hazards	: No known significant effects or critical hazards.
Health hazards	: Causes severe skin burns and eye damage. May cause an allergic skin reaction. Causes serious eye damage. May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Symptoms related to the pl	hysical, chemical and toxicological characteristics
Symptoms related to the pl Eye contact	hysical, chemical and toxicological characteristics : Adverse symptoms may include the following:
	: Adverse symptoms may include the following: pain
	: Adverse symptoms may include the following: pain watering
Eye contact	: Adverse symptoms may include the following: pain watering redness
	: Adverse symptoms may include the following: pain watering
Eye contact	 Adverse symptoms may include the following: pain watering redness Adverse symptoms may include the following: wheezing and breathing difficulties asthma Adverse symptoms may include the following: pain or irritation redness
Eye contact Inhalation Skin contact	 Adverse symptoms may include the following: pain watering redness Adverse symptoms may include the following: wheezing and breathing difficulties asthma Adverse symptoms may include the following: pain or irritation redness blistering may occur
Eye contact Inhalation	 Adverse symptoms may include the following: pain watering redness Adverse symptoms may include the following: wheezing and breathing difficulties asthma Adverse symptoms may include the following: pain or irritation redness
Eye contact Inhalation Skin contact Ingestion	 Adverse symptoms may include the following: pain watering redness Adverse symptoms may include the following: wheezing and breathing difficulties asthma Adverse symptoms may include the following: pain or irritation redness blistering may occur Adverse symptoms may include the following:
Eye contact Inhalation Skin contact Ingestion	 Adverse symptoms may include the following: pain watering redness Adverse symptoms may include the following: wheezing and breathing difficulties asthma Adverse symptoms may include the following: pain or irritation redness blistering may occur Adverse symptoms may include the following: stomach pains
Eye contact Inhalation Skin contact Ingestion <u>Delayed and immediate effe</u>	 Adverse symptoms may include the following: pain watering redness Adverse symptoms may include the following: wheezing and breathing difficulties asthma Adverse symptoms may include the following: pain or irritation redness blistering may occur Adverse symptoms may include the following: stomach pains
Eye contact Inhalation Skin contact Ingestion <u>Delayed and immediate effe</u> <u>Short term exposure</u> Potential immediate	 Adverse symptoms may include the following: pain watering redness Adverse symptoms may include the following: wheezing and breathing difficulties asthma Adverse symptoms may include the following: pain or irritation redness blistering may occur Adverse symptoms may include the following: stomach pains
Eye contact Inhalation Skin contact Ingestion <u>Delayed and immediate effe</u> <u>Short term exposure</u> Potential immediate effects	 Adverse symptoms may include the following: pain watering redness Adverse symptoms may include the following: wheezing and breathing difficulties asthma Adverse symptoms may include the following: pain or irritation redness blistering may occur Adverse symptoms may include the following: stomach pains

Section 2. Hazards identification

Potential immediate effects	1	Not available.
Potential delayed effects	:	Not available.
Environmental hazards	:	Harmful to aquatic life. Harmful to aquatic life with long lasting effects.
Other hazards which do not result in classification	:	Air contaminants may be formed during use of the product.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

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Hazardous ingredients

Ingredient name	%	CAS number
m-phenylenebis(methylamine)	2.5 - 10	1477-55-0
N-[3-(dimethoxymethylsilyl)propyl]ethylenediamine	2.5 - 10	3069-29-2
Formaldehyde, polymer with N,N-dimethyl-1,3-propanediamine and phenol	< 2.5	445498-00-0
2,2'-iminodiethylamine	< 2.5	111-40-0
ethylenediamine	< 1	107-15-3
3,6,9-triazaundecamethylenediamine	< 1	112-57-2

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary fir	<u>st aid measures</u>
Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. In the event of any complaints or symptoms, avoid further exposure.
Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Section 4. First aid measures

Ingestion	: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Most important symptoms/e	effects, acute and delayed
Potential acute health effe	<u>cts</u>
Eye contact	: Causes serious eye damage.
Inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sym	-
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	 Adverse symptoms may include the following: wheezing and breathing difficulties asthma
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
Indication of immediate me	dical attention and special treatment needed, if necessary
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Ext	ing	ui	ish	nin	g n	ne	dia	2

Suitable extinguishing : Use an extinguishing agent suitable for the surrounding fire.

media Unsuitable extinguishing media

: None known.

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Section 5. Fire-fighting measures

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Specific hazards arising from the chemical	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protect	tiv	e equipment and emergency procedures
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".
Environmental precautions		Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities.
Methods and materials for co	ont	ainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling	1	
Protective measures	:	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	:	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	:	Storage temperature: Observe technical data sheet/instructions for use. Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
m-phenylenebis(methylamine)	ACGIH TLV (United States, 1/2021).
	Absorbed through skin.
	C: 0.018 ppm
2,2'-iminodiethylamine	GBZ 2.1 (China, 8/2019). Absorbed
	through skin.
	PC-TWA: 4 mg/m ³ 8 hours.
ethylenediamine	GBZ 2.1 (China, 8/2019). Absorbed
	through skin. Skin sensitizer.
	PC-TWA: 4 mg/m ³ 8 hours.
	PC-STEL: 10 mg/m ³ 15 minutes.
methanol	[Air contaminant - Curing]
	GBZ 2.1 (China, 8/2019). Absorbed
	through skin.
	PC-TWA: 25 mg/m ³ 8 hours.
	PC-STEL: 50 mg/m ³ 15 minutes.

Appropriate engineering controls	: Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

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Section 8. Exposure controls/personal protection

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Hygiene measures	: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection	: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Hand protection	: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. 1 - 4 hours (breakthrough time): Recommended: Viton® fluor rubber / Short term exposure < 15 min Nitrile gloves
Body protection	 Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection	 Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. Recommended: organic vapor filter (Type A)

Section 9. Physical and chemical properties

Physical state	: Liquid.
Color	: Black.
Odor	: Not available.
рН	: Not applicable.
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: ~1.2
Solubility	: Not available.
Partition coefficient: n- octanol/water	: Not applicable.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: refer to technical data sheet

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: No specific data.
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Ingredient name	Result	Species	Dose	Exposure
m-phenylenebis (methylamine)	LC50 Inhalation Gas.	Rat	2.4 mg/l	4 hours
	LD50 Dermal	Rabbit	2 g/kg	-
	LD50 Oral	Rat	930 mg/kg	-
Formaldehyde, polymer with	LD50 Oral	Rat - Female	300 to 2000 mg/	-
N,N-dimethyl-			kg	
1,3-propanediamine and			0	
phenol				
2,2'-iminodiethylamine	LD50 Dermal	Rabbit	1090 mg/kg	-
•	LD50 Oral	Rat	1080 mg/kg	-
ethylenediamine	LD50 Oral	Rat	1200 mg/kg	-
3,6,9-triazaundecamethylenediamine	LD50 Oral	Rat	3990 mg/kg	-

Irritation/Corrosion

Ingredient name	Result	Species	Score	Exposure	Observation
m-phenylenebis	Eyes - Severe irritant	Rabbit	-	24 hours 50	-
(methylamine)				ug	
	Skin - Severe irritant	Rabbit	-	24 hours 750	-
				ug	
2,2'-iminodiethylamine	Skin - Moderate irritant	Rabbit	-	500 mg	-
ethylenediamine	Eyes - Severe irritant	Rabbit	-	24 hours 750	-
				ug	
	Eyes - Severe irritant	Rabbit	-	750 ug	-
	Skin - Moderate irritant	Rabbit	-	450 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 10	-
				mg	
3,6,9-triazaundecamethylenediamine	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Moderate irritant	Rabbit	-	5 mg	-
	Skin - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
	Skin - Severe irritant	Rabbit	-	495 mg	-

Sensitization

Not available.

Mutagenicity

Section 11. Toxicological information

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely : Not available. routes of exposure

Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: wheezing and breathing difficulties asthma
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	<u>ects</u>
Not available.	

Section 11. Toxicological information

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General	 Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effe	cts : No known significant effects or critical hazards.
Fertility effects	: No known significant effects or critical hazards.

Section 12. Ecological information

Toxicity			
Ingredient name	Result	Species	Exposure
Formaldehyde, polymer with N,N-dimethyl- 1,3-propanediamine and phenol	Acute EC50 >219 ppb	Algae	72 hours
2,2'-iminodiethylamine ethylenediamine	Acute EC50 24 mg/l Acute LC50 40 mg/l Acute LC50 53500 µg/l Fresh water Acute LC50 1014000 µg/l Fresh water Acute EC50 100000 µg/l Fresh water Acute LC50 26500 µg/l Fresh water Acute LC50 115.7 mg/l Fresh water Chronic NOEC 160 µg/l Fresh water	Daphnia Fish Daphnia - Daphnia magna Fish - Poecilia reticulata Algae - Chlorella pyrenoidosa Daphnia - Daphnia magna Fish - Pimephales promelas Daphnia - Daphnia magna	48 hours 96 hours 48 hours 96 hours 96 hours 48 hours 96 hours 21 days

Persistence/degradability

Ingredient name	Aquatic half-life	Photolysis	Biodegradability
Formaldehyde, polymer with N,N-dimethyl- 1,3-propanediamine and phenol	-	-	Not readily

Bioaccumulative potential

Ingredient name	LogPow	BCF	Potential
m-phenylenebis (methylamine)	0.18	2.69	low
N,N-dimethyl-	0.99	-	low
1,3-propanediamine and phenol			
2,2'-iminodiethylamine ethylenediamine	-5.58 -7.02	2.8 to 6.3 -	low low

<u>Mobility in soil</u>

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods	: The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non- recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled
	material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

	C	hina	UN	Sea IMDG	air IATA
UN number	UN2735		UN2735	UN2735	UN2735
shipping name	(m-pheny	IVE, N.O.S. lenebis nine), 2,2'-	AMINES, LIQUID, CORROSIVE, N.O.S (m-phenylenebis (methylamine), 2,2'- iminodiethylamine)	AMINES, LIQUID, CORROSIVE, N.O.S (m-phenylenebis (methylamine), 2,2'- iminodiethylamine)	Amines, liquid, corrosive, n.o.s. (m- phenylenebis (methylamine), 2,2'- iminodiethylamine)
Transport hazard class(es)	8		8	8	8
Packing group	II		11	11	II
Environmental hazards	No.		No.	No.	No.
Additional information	on		L	L	
China		: Special pro	ovisions 274		
UN	: Special provisions 274				
IMDG	: <u>Emergency schedules</u> F-A, S-B <u>Special provisions</u> 274				
ΙΑΤΑ	 Quantity limitation Passenger and Cargo Aircraft: 1 L. Packaging instructions: 851 Cargo Aircraft Only: 30 L. Packaging instructions: 855. Limited Quantities - Passenger Aircraft: 0.5 L. Packaging instructions: Y840. Special provisions A3, A803 				
Special precautions	precautions for user : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do the event of an accident or spillage.				
Extinguishing media					
Suitable extinguish media	ing	g : Use an extinguishing agent suitable for the surrounding fire.			
Unsuitable extingui media	shing	: None known.			
Incompatible materia	als	: No specific	data.		
Transport in bulk acc to IMO instruments	cording	: Not availab	le.		
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Section 14. Transport information

Section 15. Regulatory information

Inventory list

China inventory (IECSC)

: All components are listed or exempted.

List of Goods banned for Importing

None of the components are listed.

Inventory of Hazardous Chemicals

Ingredient name	CAS number	Status	Reference number
Bis(2-aminoethyl)amine	111-40-0	Listed	636
Ethylenediamine	107-15-3	Listed	2572
Tetraethylenepentamine	112-57-2	Listed	2086

List of Goods banned for Exporting

None of the components are listed.

List of Toxic Chemicals Severely Restricted for Importing & Exporting by China

None of the components are listed.

Inventory of Highly Toxic Articles

None of the components are listed.

Catalogue of Hazardous Chemicals of Priority Management

None of the components are listed.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

EU Regulation (EC) No. 1907/2006 (REACH)

Substances of very high concern

Ingredient name	Intrinsic property		Reference number	Date of revision
ethylenediamine	Substance of equivalent concern for human health	Candidate	-	-

Section 16. Other information

<u>History</u>	
Date of printing	: 2021-10-15.
Date of issue/Date of revision	: 2021-10-15.
Date of previous issue	: 2021-10-14.
Version	: 1.1
Key to abbreviations	: ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

Procedure used to derive the classification

Classification	Justification
SKIN CORROSION/IRRITATION - Category 1B	Calculation method
RESPIRATORY SENSITIZATION - Category 1	Calculation method
SKIN SENSITIZATION - Category 1	Calculation method
AQUATIC HAZARD (ACUTE) - Category 3	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 3	Calculation method

References : Not available.

✓ Indicates information that has changed from previously issued version.

Disclaimer

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