SAFETY DATA SHEET according to regulation 1907/2006

Product name: EX4-2

Creation date: 20.05.2021, Revision: 20.05.2021, version: 1.0

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name EX4-2



https://my.chemius.net/p/DVolx7/en/pd/en

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

Relevant identified uses

Hardener

Uses advised against

No information.

1.3 Details of the supplier of the safety data sheet

Supplier

SANIKOM D.O.O. Vrtna ulica 39 4294 Križe. Slovenia

051-354-081

1.4 Emergency Telephone Number

Emergency

112

Supplier

051-354-081

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Acute Tox. 4; H302 Harmful if swallowed.

Acute Tox. 4; H312 Harmful in contact with skin.

Skin Corr. 1A; H314.1A Causes severe skin burns and eye damage.

Skin Sens. 1; H317 May cause an allergic skin reaction.

Eye Dam. 1; H318 Causes serious eye damage.

STOT SE 3; H335 May cause respiratory irritation.

Aquatic Chronic 3; H412 Harmful to aquatic life with long lasting effects.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP]





Signal word: Danger

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.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P273 Avoid release to the environment.

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

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

P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

P305 + P351 + P338 + 310 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/physician.

P501 Dispose of contents/container in accordance with national regulation.

Contains:

3-aminomethyl-3,5,5-trimethylcyclohexylamine

2-methylpentane-1,5-diamine

2.3 Other hazards

The substances in the mixture are not classified as persistent, bioaccumulative and toxic (PBT) or very persistent and very bioaccumulative (vPvB).

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

For mixtures see 3.2.

3.2 Mixtures

NAME	CAS EC INDEX REACH	%	CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008 (CLP)	SPECIFIC CONC. LIMITS	NOTES FOR SUBSTANCES
3-aminomethyl-3,5,5- trimethylcyclohexylami ne	2855-13-2 220-666-8 612-067-00-9 01-2119514687-32	60-100	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314.1B Skin Sens. 1; H317 Aquatic Chronic 3; H412	/	/
2-methylpentane-1,5-diamine	15520-10-2 239-556-6 - 01-2119976310-41	13-30	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1A; H314.1A Eye Dam. 1; H318 Acute Tox. 4; H332 STOT SE 3; H335	/	/

SECTION 4: FIRST AID MEASURES

4.1 First aid measures

General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

Following inhalation

Remove patient to fresh air - move out of dangerous area. Victim should rest in a warm place. If symptoms develop and persist, seek medical attention.

Following skin contact

Immediately remove contaminated clothing. Areas of the body that have come into contact with the product must be rinsed with water. Immediately obtain professional medical help! Wash contaminated clothes and shoes before reuse.

Following eye contact

Immediately flush eyes with running water, keeping eyelids apart. Consult a physician immediately! Small amounts splashed into eyes can cause irreversible tissue damage and blindness. Continue rinsing during transport. If the patient is wearing contact lenses, remove them immediately.

Following ingestion

Do not induce vomiting! Rinse mouth with water and drink a glass of water by sips! Immediately consult a doctor. Show the physician the safety data sheet or label. Never give anything by mouth to an unconscious person.

4.2 Most important symptoms and effects, both acute and delayed

Following inhalation

Inhalation of mist can cause irritation of the respiratory tract (sneezing, coughing, burning sensation in the nose and throat).

Following skin contact

Harmful. Causes corrosions, heavy burns. Skin burns: Signs/symptoms may include localised redness, swelling, itching, dryness, blistering. May cause sensitisation by skin contact (itching, redness, rashes).

Following eye contact

Causes burns: signs/symptoms include corneal damage, burns, pain, lacrimation, corrosive effects, partial or complete lost of sight.

Following ingestion

Harmful to health. If ingested, causes severe burns of the mouth and throat, as well as perforation of the esophagus and stomach. May cause nausea/vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Carbon dioxide. Dry chemical powder. Water spray. Alcohol resistant foam. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media

Full water jet.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of a fire toxic gases can be generated; do not inhale gases/smoke.

5.3 Advice for firefighters

Protective actions

In case of fire or heating do not breathe fumes/vapours. Cool containers at risk with water spray. If possible remove containers from endangered area.

Special protective equipment for fire-fighters

Firefighters should wear appropriate protective clothing for firefighters (including helmets, protective boots and gloves) (EN 469) and self-contained breathing apparatus (SCBA) with a full face-piece (EN 137).

Additional information

Contaminated firefighting water must be disposed of in accordance with the regulations; do not allow to reach the sewage system.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Protective equipment

Use personal protective equipment (Section 8). Refer to protective measures listed in Sections 7 and 8.

Precautionary measures

Ensure adequate ventilation.

Emergency procedures

Prevent access to unprotected personnel. Do not breathe vapour or mist. Avoid contact with skin, eyes and clothing. Avoid contact with spilled product or contaminated surfaces.

For emergency responders

During intervention, use personal protective equipment (Section 8).

6.2 Environmental precautions

Do not allow product to reach water/drains/sewage systems or permeable soil. In case of release into the environment, inform the relevant authorities.

6.3 Methods and material for containment and cleaning up

For containment

Stem the spill if this does not pose risks.

For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Clean contaminated area with plenty of water.

OTHER INFORMATION

See Section 1 for contact information in case of emergency.

6.4 Reference to other sections

See also sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures

Measures to prevent fire

Ensure adequate ventilation. The usual measures for preventive fire protection.

Measures to prevent aerosol and dust generation

No information.

Measures to protect the environment

Do not discharge into drains, surface water and soil. After use immediately close container tightly.

Other measures

No information.

Advice on general occupational hygiene

Use good personal hygiene practices – wash hands at breaks and when done working with material. Do not eat, drink or smoke while working. Avoid contact with skin, eyes and clothes. Product is not for eating – do not ingest! Do not breathe vapours/mist. Wear suitable protective equipment; see Section 8. Remove contaminated clothes and wash them before reuse. Obtain special instructions before use. To avoid spills during handling keep bottle on a metal tray.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures and storage conditions

Keep in a cool, dry and well ventilated place. Keep away from food, drink and animal feeding stuffs. Keep in tightly closed container. Store between: 2 - 40 °C Keep away from incompatible products (see section 10).

Packaging materials

The original container of producer.

Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. The floor of the storage room must be impermeable and resistant to chemicals (base, acid). Do not store in unlabelled containers.

Storage class

No information.

Further information on storage conditions

No information.

7.3 Specific end use(s)

Recommendations

See identified uses in Section 1.2.

Industrial sector specific solutions

No information.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure limit values

No information.

Information on monitoring procedures

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents. BS EN 482:2012+A1:2015 Workplace exposure. General requirements for the performance of procedures for the measurement of chemical agents.

DNEL/DMEL values

For product

No information.

For components

NAME	TYPE	EXPOSURE ROUTE	EXP. FREQUENCY	REMARK	VALUE
3-aminomethyl-3,5,5- trimethylcyclohexylami ne	Consumer	oral	long term systemic effects	/	0.526 mg/kg bw/day
3-aminomethyl-3,5,5- trimethylcyclohexylami ne	Worker	inhalation	long term local effects	/	0.073 mg/m³
3-aminomethyl-3,5,5- trimethylcyclohexylami ne	Worker	inhalation	short term local effects	/	0.073 mg/m³

2-methylpentane-1,5- diamine	Worker	inhalation	long term local effects	/	0.25 mg/m ³
2-methylpentane-1,5- diamine	Worker	inhalation	short term local effects	/	0.5 mg/m ³
2-methylpentane-1,5- diamine	Worker	dermal	long term systemic effects	/	1.5 mg/kg bw/day
2-methylpentane-1,5- diamine	Consumer	inhalation	long term local effects	/	0.125 mg/m ³
2-methylpentane-1,5- diamine	Consumer	inhalation	short term local effects	/	0.25 mg/m ³
2-methylpentane-1,5- diamine	Consumer	dermal	long term systemic effects	/	0.75 mg/kg bw/day
2-methylpentane-1,5- diamine	Consumer	oral	long term systemic effects	/	0.75 mg/kg bw/day

PNEC values

For product

No information.

For components

NAME	EXPOSURE ROUTE	REMARK	VALUE
3-aminomethyl-3,5,5- trimethylcyclohexylamine	fresh water	/	0.06 mg/L
3-aminomethyl-3,5,5- trimethylcyclohexylamine	marine water	/	0.006 mg/L
3-aminomethyl-3,5,5- trimethylcyclohexylamine	water treatment plant	/	3.18 mg/L
3-aminomethyl-3,5,5- trimethylcyclohexylamine	fresh water sediment	/	5.784 mg/kg
3-aminomethyl-3,5,5- trimethylcyclohexylamine	marine water sediment	/	0.578 mg/kg
3-aminomethyl-3,5,5- trimethylcyclohexylamine	soil	/	1.121 mg/kg dw
3-aminomethyl-3,5,5- trimethylcyclohexylamine	water, intermittent release	/	0.23 mg/L
2-methylpentane-1,5-diamine	fresh water	/	0.42 mg/L
2-methylpentane-1,5-diamine	water, intermittent release	/	0.42 mg/L
2-methylpentane-1,5-diamine	marine water	/	0.042 mg/L
2-methylpentane-1,5-diamine	water treatment plant	/	1.25 g/L
2-methylpentane-1,5-diamine	fresh water sediment	dry weight	7.58 mg/kg
2-methylpentane-1,5-diamine	marine water sediment	dry weight	0.758 mg/kg
2-methylpentane-1,5-diamine	soil	dry weight	1.27 mg/kg

8.2 Exposure controls

Appropriate engineering control

Substance/mixture related measures to prevent exposure during identified uses

Use good personal hygiene practices – wash hands at breaks and when done working with material. Avoid contact with eyes and skin. Do not breathe vapours/aerosols. Do not eat, drink or smoke while working. Handle in accordance with good industrial hygiene and safety practice.

Structural measures to prevent exposure

No information.

Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse. Appropriate techniques should be used to remove potentially contaminated clothing. Keep eyewash bottles or personal eyewash units and emergency showers available

Technical measures to prevent exposure

Provide good ventilation and local exhaust in areas with increased concentration. Keep away from food, drink and animal feeding stuffs.

Personal protective equipment

Eye and face protection

Wear tight fitting protective goggles and/or face protection (EN 166).

Hand protection

Protective gloves (EN 374). The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Observe the manufacturer's instructions regarding the use, storage, maintenance and replacement of gloves. In case of damage or at the first signs of wear and tear, change the gloves immediately.

Appropriate materials

MATERIAL	THICKNESS	PENETRATION TIME	REMARK
Butyl rubber	1	> 480 min	EN 374
nitrile rubber	/	< 480 min	EN 374

Skin protection

Cotton protective clothing and shoes that cover the entire foot (EN ISO 20345). At high risk of skin exposure chemical suits (EN ISO 6530:2005) and boots may be required (EN ISO 20345:2012).

Respiratory protection

Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387). For dust/gas/ vapor concentrations above the applicable filter limit, in case of oxygen concentrations below 17% or in vague conditions, autonomous self-contained breathing apparatus should be used, according to standard EN 137, EN 138.

Thermal hazards

No information.

Environmental exposure controls

Substance/mixture related measures to prevent exposure

Implement measures to protect the environment. Avoid discharge into drains and surface waters.

Instruction measures to prevent exposure

No information.

Organisational measures to prevent exposure

No information.

Technical measures to prevent exposure

Prevent exposure in the environment.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state

liquid

Colour

yellow clear

Odour

amine like

Important health, safety and environmental information

Odour threshold	No information.
рН	ca. 13 at 20 °C, conc. 500 g/l
Melting point/Freezing point	No information.
Initial boiling point/boiling range	171 °C
Flash point	108 °C (Closed cup [Pensky-Martens])
Evaporation rate	No information.
Flammability (solid, gas)	No information.
Explosion limits (vol%)	No information.
Vapour pressure	No information.
Vapour density	No information.
Density / weight	Density: 0.91 – 0.92 g/cm ³ at 25 °C

Solubility	Water: Partially soluble
Partition coefficient	No information.
Auto-ignition temperature	No information.
Decomposition temperature	> 200 °C
Viscosity	Dynamic: 5 – 25 mPas at 25 °C
Explosive properties	No information.
Oxidising properties	No information.

9.2 OTHER INFORMATION

No information.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Stable under recommended transport or storage conditions.

10.2 Chemical stability

Product is stable under normal conditions of use, recommended handling and storage conditions.

10.3 Possibility of hazardous reactions

The product is stable under recommended storage and handling conditions.

10.4 Conditions to avoid

No special precautions required. Consider the directions for use and storage.

10.5 Incompatible materials

Strong oxidising agents.

Strong acids.

Strong bases.

10.6 Hazardous decomposition products

Under normal use conditions no hazardous decomposition products are expected. In case of fire/explosion vapours/gases that pose a health hazard are released. Carbon dioxide; Carbon monoxide. Nitrogen oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

(a) Acute toxicity

For product

EXPOSURE ROUTE	TYPE	SPECIES	TIME	VALUE	METHOD	REMARK
oral	LD ₅₀	rat	/	ca. 1200 mg/kg	/	/
inhalation (dusts/mists)	ATE	/	4 h	> 5 mg/l	/	calculated value

dermal	ATE	/	/	1212 mg/kg	/	calculated value
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Additional information

Harmful in contact with skin. Harmful if swallowed.

(b) Skin corrosion/irritation

For components

NAME	SPECIES	TIME	RESULT	METHOD	REMARK
3-aminomethyl-3,5,5- trimethylcyclohexylami ne	rabbit	/	Corrosive.	/	/
2-methylpentane-1,5- diamine	rabbit	/	Corrosive	OECD 404	/

Additional information

Causes severe skin burns.

(c) Serious eye damage/irritation

For components

NAME	EXPOSURE ROUTE	SPECIES	TIME	RESULT	METHOD	REMARK
2-methylpentane- 1,5-diamine	/	rabbit	/	It causes serious eye damage.	/	/

Additional information

Causes serious eye damage.

(d) Respiratory or skin sensitisation

For product

EXPOSURE ROUTE	SPECIES	TIME	RESULT	METHOD	REMARK
dermal	guinea pig	/	Sensitizing.	/	/

Additional information

May cause an allergic skin reaction.

(e) (Germ cell) mutagenicity

For components

NAME	TYPE	SPECIES	TIME	RESULT	METHOD	REMARK
2-methylpentane- 1,5-diamine	in-vitro mutagenicity	/	/	Negative.	OECD 471	/
2-methylpentane- 1,5-diamine	in-vitro mutagenicity	Cell: Mammalian- Animal	/	Negative with metabolic activation, negative without metabolic activation.	OECD 473	/
2-methylpentane- 1,5-diamine	in-vitro mutagenicity	/	/	Negative with metabolic activation, negative without metabolic activation.	OECD 476	/
2-methylpentane- 1,5-diamine	in-vivo mutagenicity	/	/	Negative.	OECD 474	/

(f) Carcinogenicity

No information.

(g) Reproductive toxicity

For components

NAME	TYPE	SPECIES	TIME	VALUE	RESULT	METHOD	REMARK
3-aminomethyl- 3,5,5- trimethylcyclohe xylamine	NOEL	rat (female)	/	50 mg/kg bw	/	OECD 414	oral
2- methylpentane- 1,5-diamine	NOAEL	rat	/	ca. 184 mg/kg bw	No effect	OECD 414	oral

Summary of evaluation of the CMR properties

The product is not classified as carcinogenic, mutagenic or toxic for reproduction.

(h) STOT-single exposure

For components

NAME	EXPOSURE ROUTE	TYPE	SPECIES	TIME	ORGAN	VALUE	RESULT	METHOD	EXPOSURE	REMARK
2- methylpent ane-1,5- diamine	inhalation	-	/	/	/	/	Irritating to respiratory system.	/	/	/

Additional information

May cause respiratory irritation.

(i) STOT-repeated exposure

For components

NAME	EXPOSURE ROUTE	TYPE	SPECIES	TIME	ORGAN	VALUE	RESULT	METHOD	EXPOSURE	REMARK
3- aminometh yl-3,5,5- trimethylcy clohexylami ne	oral	NOAEL	rat	216 h	/	60 mg/kg bw/day	/	/	/	/

Additional information

STOT RE (repeated exposure): Not classified.

(j) Aspiration hazard

For components

NAME	RESULT	METHOD	REMARK
2-methylpentane-1,5-diamine	ASPIRATION HAZARD	/	/

Additional information

Aspiration hazard: Not classified.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Acute (short-term) toxicity

For components

NAME	TYPE	VALUE	EXPOSURE TIME	SPECIES	ORGANISM	METHOD	REMARK
3-aminomethyl- 3,5,5- trimethylcyclohe xylamine	LC ₅₀	110 mg/L	96 h	fish	Leuciscus idus	Directive 67/548/EEC, Annex V, C.1. Directive 67/548/EEC, Annex V, C.1.	Semi-static system
3-aminomethyl- 3,5,5- trimethylcyclohe xylamine	EC ₅₀	23 mg/L	48 h	crustacea	Daphnia magna	OECD 202	static system
3-aminomethyl- 3,5,5- trimethylcyclohe xylamine	EC ₅₀	37 mg/L	48 h	crustacea	Daphnia magna	Directive 67/548/EEC, Annex V, C.2. Directive 67/548/EEC, Annex V, C.2.	Static system, Fresh water
3-aminomethyl- 3,5,5- trimethylcyclohe xylamine	EC ₁₀	1120 mg/L	18 h	bacteria	Pseudomonas putida	/	Static system, Fresh water
2- methylpentane- 1,5-diamine	LC ₅₀	1825 mg/L	96 h	fish	Pimephales promelas	OECD 203	static system
2- methylpentane- 1,5-diamine	EC ₅₀	23.4 mg/L	48 h	crustacea	Daphnia magna	OECD 202 OECD 202	fresh water
2- methylpentane- 1,5-diamine	ErC ₅₀	> 100 mg/L	72 h	algae	Selenastrum capricornutum	OECD 201	static system

Chronic (long-term) toxicity

For components

NAME	TYPE	VALUE	EXPOSURE TIME	SPECIES	ORGANISM	METHOD	REMARK	
2- methylpentane- 1,5-diamine	NOEC	4.16 mg/l	21 days	crustacea	Daphnia magna	OECD 211	semi-static, fresh water	

12.2 Persistence and degradability

Abiotic degradation, physical- and photo-chemical elimination

No information.

Biodegradation

For components

NAME	TYPE	RATE	TIME	EVALUATION	METHOD	REMARK
3-aminomethyl- 3,5,5- trimethylcyclohexyl amine	aerobic	8 %	28 days	Not readily biodegradable.	67/548/EEC Anex V, C.4.A	activated sludge
2-methylpentane- 1,5-diamine	aerobic	/	28 days	readily biodegradable	OECD 301 D	activated sludge; 1,1 mg/l

12.3 Bioaccumulative potential

Partition coefficient

For components

NAME	MEDIA	VALUE	TEMPERATURE	PH	CONCENTRATION	METHOD
3-aminomethyl- 3,5,5- trimethylcyclohexyl amine	Log Pow	0.99	/	6.34	/	OECD 107
2-methylpentane- 1,5-diamine	Log Pow	≤ 1	/	9	/	/

Bioconcentration factor (BCF)

For components

NAME	SPECIES	ORGANISM	VALUE	DURATION	EVALUATION	METHOD	REMARK
2- methylpentane- 1,5-diamine	BCF	/	3	/	/	/	/
2- methylpentane- 1,5-diamine	bioaccumulation	/	/	/	Bioaccumulation is not expected.	/	/

12.4 Mobility in soil

Known or predicted distribution to environmental compartments

No information.

Surface tension

No information.

Adsorption/Desorption

For components

NAME	TYPE	CRITERION	VALUE	EVALUATION	METHOD	REMARK
3-aminomethyl- 3,5,5- trimethylcyclohexyl amine	Soil	/	928	/	/	Кос

12.5 Results of PBT and vPvB assessment

Does not contain component(s) that meet(s) the criteria of PBT and/or vPvB as listed in Annex XIII of Regulation (EC) No 1907/2006.

12.6 Other adverse effects

No information.

12.7 Additional information

For product

Harmful to aquatic organisms. May cause long term adverse effects in the aquatic environment. Do not allow to reach ground water, water courses or sewage system.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product / Packaging disposal

Waste chemical

Disposal must be made according to official regulations: deliver it to authorised collector/remover/transformer of hazardous waste. Do not allow product to reach drains/sewage systems. Reuse or recycle, if possible. Waste should be handled in accordance with local or national regulations.

Waste codes / waste designations according to LoW No information.

Packaging

Deliver completely emptied containers to approved waste disposal authorities. Uncleaned containers are classified as hazardous waste - they should be handled in the same manner as the contents. Empty container is not suitable for reuse. Dispose of in accordance with applicable waste disposal regulation.

Waste codes / waste designations according to LoW

No information.

Waste treatment-relevant information

No information.

Sewage disposal-relevant information

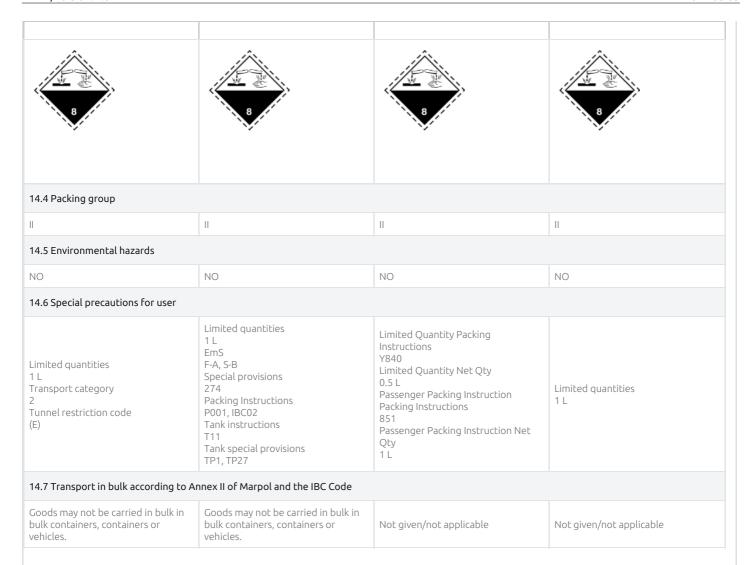
No information.

Other disposal recommendations

No information.

SECTION 14: TRANSPORT INFORMATION

ADR/RID	IMDG	IATA	ADN
14.1 UN number			
UN 2735	UN 2735	UN 2735	UN 2735
14.2 UN proper shipping name			
POLYAMINES, LIQUID, CORROSIVE, N.O.S., 3-aminomethyl-3,5,5- trimethylcyclohexylamine, 2- methylpentane-1,5-diamine	POLYAMINES, LIQUID, CORROSIVE, N.O.S., 3-aminomethyl-3,5,5- trimethylcyclohexylamine, 2- methylpentane-1,5-diamine	POLYAMINES, LIQUID, CORROSIVE, N.O.S., 3-aminomethyl-3,5,5- trimethylcyclohexylamine, 2- methylpentane-1,5-diamine	POLYAMINES, LIQUID, CORROSIVE, N.O.S., 3-aminomethyl-3,5,5-trimethylcyclohexylamine, 2-methylpentane-1,5-diamine
14.3 Transport hazard class(es)			
8	8	8	8



SECTION 15: REGULATORY INFORMATION

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
 - Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)(including last amendment Commission Regulation (EU) 2015/830)
 - Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures

Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline) not applicable

Regulation EC 648/2004 on detergents

No information.

Special instructions

SVHC (substance of very high concern) Candidate list: The product does not contain substances on the SVHC candidate list. Observe the regulations on employment and protection against dangerous substances for young people, pregnant women and nursing mothers.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

SECTION 16: OTHER INFORMATION

Indication of changes

No information.

Key literature references and sources for data

No information.

Abbreviations and acronyms

ATE - Acute Toxicity Estimate

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road

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

CEN - European Committee for Standardisation

C&L - Classification and Labelling

CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008

CAS# - Chemical Abstracts Service number

CMR - Carcinogen, Mutagen, or Reproductive Toxicant

CSA - Chemical Safety Assessment

CSR - Chemical Safety Report

DMEL - Derived Minimal Effect Level

DNEL - Derived No Effect Level

DPD - Dangerous Preparations Directive 1999/45/EC

DSD - Dangerous Substances Directive 67/548/EEC

DU - Downstream User

EC - European Community

ECHA - European Chemicals Agency

EC-Number - EINECS and ELINCS Number (see also EINECS and ELINCS)

EEA - European Economic Area (EU + Iceland, Liechtenstein and Norway)

EEC - European Economic Community

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

EN - European Standard

EQS - Environmental Quality Standard

EU - European Union

Euphrac - European Phrase Catalogue

EWC - European Waste Catalogue (replaced by LoW – see below)

GES - Generic Exposure Scenario

GHS - Globally Harmonized System

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods

IMSBC - International Maritime Solid Bulk Cargoes

IT - Information Technology

IUCLID - International Uniform Chemical Information Database

IUPAC - International Union for Pure Applied Chemistry

JRC - Joint Research Centre

Kow - octanol-water partition coefficient

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)

LE - Legal Entity

LoW - List of Wastes (see http://ec.europa.eu/environment/waste/framework/list.htm)

LR - Lead Registrant

M/I - Manufacturer / Importer

MS - Member States

MSDS - Material Safety Data Sheet

OC - Operational Conditions

OECD - Organization for Economic Co-operation and Development

OEL - Occupational Exposure Limit

OJ - Official Journal

OR - Only Representative

OSHA - European Agency for Safety and Health at work

PBT - Persistent, Bioaccumulative and Toxic substance

PEC - Predicted Effect Concentration

PNEC(s) - Predicted No Effect Concentration(s)

PPE - Personal Protection Equipment

(Q)SAR - Qualitative Structure Activity Relationship

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

RIP - REACH Implementation Project

RMM - Risk Management Measure

SCBA - Self-Contained Breathing Apparatus

SDS - Safety data sheet

SIEF - Substance Information Exchange Forum

SME - Small and Medium sized Enterprises

STOT - Specific Target Organ Toxicity

(STOT) RE - Repeated Exposure

(STOT) SE - Single Exposure

SVHC - Substances of Very High Concern

UN - United Nations

vPvB - Very Persistent and Very Bioaccumulative

List of relevant H phrases

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H412 Harmful to aquatic life with long lasting effects.