

# SAFETY DATA SHEET according to Regulation 1907/2006

Product name: **EXRR-2**

Creation date: **1.7.2014** · Revision: **16.10.2020** · Version: **1**

## SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

Product name

**EXRR-2**



chemius.net/UIC36

### 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.

Address: Vrtna ulica 39, 4294 Križe, Slovenia

Phone: +386(0)51-354-081

Fax: 0599-50-636

E-mail: gregor.janc@sanikom.si

Point of contact for safety info: Gregor Janc

### 1.4. Emergency telephone number

112

+386(0)51-354-081

## 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.

Skin Corr. 1B; H314 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.

Acute Tox. 4; H332 Harmful if inhaled.

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

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## 2.2 Label elements

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



Signal word: **Danger**

H302 + H332 Harmful if swallowed or if inhaled.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H412 Harmful to aquatic life with long lasting effects.

P261 Avoid breathing mist/vapours.

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 + P310 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.

### 2.2.2. Contains:

m-phenylenebis(methylamine) (CAS: 1477-55-0, EC: 216-032-5)

### 2.2.3. Special provisions

Special hazards are not known or expected.

## 2.3. Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Product description

Polyamines.

### 3.1. Substances

For mixtures see 3.2.

### 3.2. Mixtures

Name	CAS EC Index	%	Classification according to Regulation (EC) No 1272/2008 (CLP)	Specific Conc. Limits	REACH Registration No.
m-phenylenebis(methylamine)	1477-55-0 216-032-5 -	>=50 - <70	Acute Tox. 4; H302 Skin Corr. 1B; H314 Skin Sens. 1B; H317 Eye Dam. 1; H318 Acute Tox. 4; H332 Aquatic Chronic 3; H412		01-2119480150-50

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## SECTION 4. FIRST AID MEASURES

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### 4.1. Description of first aid measures

#### General notes

Never give anything by mouth to an unconscious person. Place patient in recovery position and ensure airway patency. When in doubt or if feeling unwell seek medical assistance. Show the safety data sheet and label to the physician.

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. When it is suspected, that there may still be harmful vapours/fumes present in the air, respiratory protection (mask; self contained breathing apparatus) must be used.

#### Following inhalation

Remove patient to fresh air - move out of dangerous area. 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. If symptoms persist seek medical attention. Wash contaminated clothes and shoes before reuse.

#### Following eye contact

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

#### Following ingestion

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

### 4.2. Most important symptoms and effects, both acute and delayed

#### Inhalation

Harmful.

Inhalation may result in irritation and burns to the respiratory tract.

#### Skin contact

Skin burns: Signs/symptoms may include localised redness, swelling, itching, dryness, blistering.

May cause sensitisation by skin contact (symptoms: itching, redness, rashes).

#### Eye contact

Redness, pain, burning sensation, tearing, can cause permanent damage to the eyes.

#### Ingestion

Harmful if swallowed.

Causes corrosions in mouth, throat, digestive tract.

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

Treat symptomatically.

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## SECTION 5. FIREFIGHTING MEASURES

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### 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.

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## 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. No action shall be taken involving any personal risk or without suitable training.

### Special protective equipment for firefighters

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.

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## SECTION 6. ACCIDENTAL RELEASE MEASURES

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### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

##### **Protective equipment**

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

##### **Emergency procedures**

Ensure adequate ventilation. Prevent access to unprotected personnel. Do not breathe vapour or mist. Avoid contact with skin and eyes. No action shall be taken involving any personal risk or without suitable training. Prevent access to unauthorised personnel. Evacuate the danger zone.

#### 6.1.2. 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. If accidental large entry into water or ground occurs, inform responsible authorities.

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

#### 6.3.1. For containment

Stem the spill if this does not pose risks.

#### 6.3.2. For cleaning up

Absorb product (with inert material), collect it in special container and dispose it to a licensed hazardous-waste disposal contractor. Prevent release into the sewer, water, basements or confined areas. Keep the remains in a closed container.

#### 6.3.3. Other information

See Section 1 for contact information in case of emergency.

### 6.4. Reference to other sections

See also Sections 8 and 13.

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## SECTION 7. HANDLING AND STORAGE

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### 7.1. Precautions for safe handling

#### 7.1.1. Protective measures

##### **Measures to prevent fire**

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

##### **Measures to prevent aerosol and dust generation**

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## Measures to protect the environment

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

### 7.1.2. 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 and eyes. Do not breathe vapours/mist. Refer to instructions on label and regulations for safety and health at work. Wear suitable protective equipment; see Section 8. To avoid spills during handling keep bottle on a metal tray. Persons with a history of skin sensitisation problems or asthma, allergies or chronic or recurrent respiratory disease should not be employed in any process in which this product is used.

## 7.2. Conditions for safe storage, including any incompatibilities

### 7.2.1. Technical measures and storage conditions

Keep in cool and well ventilated area. Keep away from food, drink and animal feeding stuffs. Keep container closed. Keep in properly labelled containers. Store between: 2 - 40 °C

### 7.2.2. Packaging materials

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### 7.2.3. Requirements for storage rooms and vessels

Close opened containers after use. Put the containers upright to prevent from leaking. Do not store in unlabelled containers.

### 7.2.4. Storage class

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### 7.2.5. Further information on storage conditions

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## 7.3. Specific end use(s)

### Recommendations

See identified uses in Section 1.2.

### Industrial sector specific solutions

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### 8.1.1. Occupational exposure limit values

No information.

#### 8.1.2. Information on monitoring procedures

BS EN 14042:2003 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. BS EN 689:2018 Workplace exposure. Measurement of exposure by inhalation to chemical agents. Strategy for testing compliance with occupational exposure limit values.

#### 8.1.3. DNEL/DMEL values

##### For components

Name	Type	Exposure route	Exposure frequency	Value	Remark
m-phenylenebis(methylamine) (1477-55-0)	Worker	dermal	long term (systemic effects)	0,33 mg/kg	
m-phenylenebis(methylamine) (1477-55-0)	Worker	inhalation	long term (systemic effects)	1,2 mg/m <sup>3</sup>	
m-phenylenebis(methylamine) (1477-55-0)	Worker	inhalation	long term (local effects)	0,2 mg/m <sup>3</sup>	

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## 8.1.4. PNEC values

### For components

Name	Exposure route	Value	Remark
m-phenylenebis(methylamine) (1477-55-0)	fresh water	0,094 mg/L	
m-phenylenebis(methylamine) (1477-55-0)	marine water	0,009 mg/L	
m-phenylenebis(methylamine) (1477-55-0)	fresh water sediment	12,4 mg/kg	dry weight
m-phenylenebis(methylamine) (1477-55-0)	marine water sediment	1,24 mg/kg	dry weight
m-phenylenebis(methylamine) (1477-55-0)	water, intermittent release	0,152 mg/L	
m-phenylenebis(methylamine) (1477-55-0)	soil	2,44 mg/kg	dry weight
m-phenylenebis(methylamine) (1477-55-0)	water treatment plant	10 mg/L	

## 8.2. Exposure controls

### 8.2.1. 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. Do not eat, drink or smoke while working. Avoid contact with eyes and skin. Do not breathe vapours/aerosols. Handle in accordance with good industrial hygiene and safety practice.

#### Organisational measures to prevent exposure

Remove all contaminated clothes immediately and wash them before reuse. Keep eyewash bottles or personal eyewash units and emergency showers available. Do not eat, drink or smoke while working.

#### 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.

### 8.2.2. Personal protective equipment

#### Eye and face protection

Tight fitting protective goggles (EN 166). If there is danger of splash or spray use the face shield.

#### 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. The penetration time is determined by the protective glove manufacturer and must be observed. 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. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves.

#### Appropriate materials

Material	Thickness	Penetration Time	Remark
Butyl rubber		> 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). Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. At high risk of skin exposure chemical suits (EN ISO 6530:2005) and boots may be required (EN ISO 20345:2012).

#### Respiratory protection

Not needed under normal use and adequate ventilation. In case of insufficient ventilation wear suitable respiratory protection. Wear suitable protective breathing mask (EN 136) with filter A2-P2 (EN 14387).

#### Thermal hazards

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## 8.2.3. Environmental exposure controls

### Substance/mixture related measures to prevent exposure

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

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

- <b>Physical state:</b>	liquid
- <b>Colour:</b>	clear, slight yellow tint
- <b>Odour:</b>	mild

### Important health, safety and environmental information

- <b>pH</b>	No information.
- <b>Melting point/freezing point</b>	No information.
- <b>Initial boiling point/boiling range</b>	> 200 °C
- <b>Flash point</b>	> 100 °C (Closed cup)
- <b>Evaporation rate</b>	No information.
- <b>Flammability (solid, gas)</b>	No information.
- <b>Explosion limits (vol%)</b>	No information.
- <b>Vapour pressure</b>	No information.
- <b>Vapour density</b>	No information.
- <b>Density</b>	No information.
- <b>Solubility</b>	<b>Water:</b> Soluble
- <b>Partition coefficient</b>	No information.
- <b>Auto-ignition temperature</b>	No information.
- <b>Decomposition temperature</b>	No information.
- <b>Viscosity</b>	<b>Dynamic:</b> 6800 mPas at 25 °C
- <b>Explosive properties</b>	No information.
- <b>Oxidising properties</b>	No information.

### 9.2. Other information

- <b>Remarks:</b>	
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## 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. There are no known hazardous reactions.

### 10.4. Conditions to avoid

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

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## 10.5. Incompatible materials

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## 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.

## SECTION 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### (a) Acute toxicity

Name	Exposure route	Type	Species	Time	Value	Method	Remark
For product	oral	ATE			1577 mg/kg		calculated value
For product	inhalation (dusts/mists)	ATE		4 h	2,27 mg/l		calculated value
m-phenylenebis(methylamine) (1477-55-0)	dermal	LD <sub>50</sub>	rat		> 3100 mg/kg		

**Additional information:** Harmful by inhalation and ingestion.

#### (b) Skin corrosion/irritation

Name	Species	Time	Result	Method	Remark
m-phenylenebis(methylamine) (1477-55-0)	rat		Causes serious burns.	Directive 67/548/EEC, Annex V, B.4.	

**Additional information:** Causes severe skin burns.

#### (c) Serious eye damage/irritation

**Additional information:** Causes serious eye damage.

#### (d) Respiratory or skin sensitisation

Name	Exposure route	Species	Time	Result	Method	Remark
m-phenylenebis(methylamine) (1477-55-0)	dermal	mouse		May cause sensitisation by skin contact.	OECD 429	

**Additional information:** May cause an allergic skin reaction.



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## (e) (Germ cell) mutagenicity

Name	Type	Species	Time	Result	Method	Remark
m-phenylenebis(methylamine) (1477-55-0)	in-vitro mutagenicity	bacteria ( <i>Salmonella typhimurium</i> )		Negative with metabolic activation, negative without metabolic activation.	OECD 471	Ames test
m-phenylenebis(methylamine) (1477-55-0)	in-vitro mutagenicity	Chinese hamster lung fibroblasts.		Negative with metabolic activation, negative without metabolic activation.	OECD 473	Chromosome aberration assay
m-phenylenebis(methylamine) (1477-55-0)	in-vitro mutagenicity	mouse (lymphoma cells)		Negative with metabolic activation, negative without metabolic activation.	OECD 476	
m-phenylenebis(methylamine) (1477-55-0)	in-vivo mutagenicity	mouse (bone marrow)		Negative.	OECD 474	oral; single dose 750 mg/kg body weight
m-phenylenebis(methylamine) (1477-55-0)	in-vitro mutagenicity	Bacteria		Negative.		
m-phenylenebis(methylamine) (1477-55-0)	in-vitro mutagenicity	Cell: Mammalian-Animal		Negative.		
m-phenylenebis(methylamine) (1477-55-0)				Animal testing did not show any mutagenic effects.		

## (f) Carcinogenicity

No information.

## (g) Reproductive toxicity

Name	Reproductive toxicity type	Type	Species	Time	Value	Result	Method	Remark
m-phenylenebis(methylamine) (1477-55-0)	Effects on fertility	NOEL	rat		50 – 150 mg/kg bw	No effects observed.	OECD 421	oral; Dose: 0, 50, 150 in 450 mg/kg
m-phenylenebis(methylamine) (1477-55-0)	Effects on fertility	NOEL	rat (F1)		450 mg/kg bw	No effects observed.	OECD 421	oral; Dose: 0, 50, 150 in 450 mg/kg
m-phenylenebis(methylamine) (1477-55-0)	Maternal toxicity	NOAEL	rat	19 days	100 mg/kg bw	Negative.	OECD 414	Oral; Dose: 0, 30, 100, 300 mg/kg; 19 days - Frequency of Treatment: 1 daily
m-phenylenebis(methylamine) (1477-55-0)	Effects on fertility	NOAEL	rat	19 days	300 mg/kg bw	Negative.	OECD 414	Oral; Dose: 0, 30, 100, 300 mg/kg; 19 days - Frequency of Treatment: 1 daily

## Summary of evaluation of the CMR properties

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

## (h) STOT-single exposure

No information.

## (i) STOT-repeated exposure

Name	Exposure route	Type	Species	Time	Organ	Value	Result	Method	Remark
m-phenylenebis(methylamine) (1477-55-0)	oral	NOEL	rat	672 h		150 mg/kg		OECD 407	Dose: 0, 10, 40, 150 in 600 mg/kg/day

**Additional information:** STOT RE (repeated exposure): Not classified.

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(j) Aspiration hazard

**Additional information:** Aspiration hazard: Not classified.

## SECTION 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### 12.1.1. Acute (short-term) toxicity

**For components**

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
m-phenylenebis(methylamine) (1477-55-0)	LC <sub>50</sub>	87,6 mg/L	96 h	fish	<i>Oryzias latipes</i>	OECD 203	Semi-static system
	EC <sub>50</sub>	15,2 mg/L	48 h	crustacea	<i>Daphnia magna</i>	OECD 202	static system
	ErC <sub>50</sub>	32,1 mg/L	72 h	algae	<i>Selenastrum capricornutum</i>	OECD 201	static system
	EC <sub>50</sub>	> 1000 mg/L	30 min	Microorganisms/Effect on activated sludge	Bacteria	OECD 209	static system

#### 12.1.2. Chronic (long-term) toxicity

**For components**

Substance (CAS Nr.)	Type	Value	Exposure time	Species	Organism	Method	Remark
m-phenylenebis(methylamine) (1477-55-0)	NOEC	4,7 mg/l	21 days	crustacea	<i>Daphnia magna</i>	OECD 211	semi-static system

### 12.2. Persistence and degradability

#### 12.2.1. Abiotic degradation, physical- and photo-chemical elimination

No information.

#### 12.2.2. Biodegradation

**For components**

Substance (CAS Nr.)	Type	Rate	Time	Evaluation	Method	Remark
m-phenylenebis(methylamine) (1477-55-0)	aerobic	49 %	28 days	Not readily biodegradable.	OECD 301 B	activated sludge; Concentration: 14,2 mg/l

### 12.3. Bioaccumulative potential

#### 12.3.1. Partition coefficient

**For components**

Substance (CAS Nr.)	Media	Value	Temperature	pH	Concentration	Method
m-phenylenebis(methylamine) (1477-55-0)	Log Pow	0,18	25 °C	10,4		OECD 107

#### 12.3.2. Bioconcentration factor (BCF)

**For components**

Substance (CAS Nr.)	species	Organism	Value	Duration	Evaluation	Method	Remark
m-phenylenebis(methylamine) (1477-55-0)	BCF	<i>Cyprinus carpio</i>	< 0,3		Bioaccumulation is not expected.		

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## 12.4. Mobility in soil

### 12.4.1. Known or predicted distribution to environmental compartments

No information.

### 12.4.2. Surface tension

No information.

### 12.4.3. Adsorption/Desorption

No information.

## 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.

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## SECTION 13. DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

#### 13.1.1. 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. Waste should be handled in accordance with local or national regulations.

##### **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.

#### 13.1.2. Waste treatment-relevant information

Treat contaminated packaging as the product.

#### 13.1.3. Sewage disposal-relevant information

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#### 13.1.4. Other disposal recommendations

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## SECTION 14. TRANSPORT INFORMATION

### 14.1. UN number

UN 2735

### 14.2. UN proper shipping name

POLYAMINES, LIQUID, CORROSIVE, N.O.S. (m-phenylenebis(methylamine))

### 14.3. Transport hazard class(es)

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## 14.4. Packing group

II

## 14.5. Environmental hazards

NO.

## 14.6. Special precautions for user

### Limited quantities

1 L

### Tunnel restriction code

(E)

### IMDG flashpoint

100 °C, c.c.

### IMDG EmS

F-A, S-B

## 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Goods may not be carried in bulk in bulk containers, containers or vehicles.

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## SECTION 15. REGULATORY INFORMATION

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### 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

#### 15.1.1. Information according 2004/42/EC about limitation of emissions of volatile organic compounds (VOC-guideline)

Not applicable.

#### 15.1.2. 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.

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## SECTION 16. OTHER INFORMATION

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### Indication of changes

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### 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

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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  
LC<sub>50</sub> - Lethal Concentration to 50 % of a test population  
LD<sub>50</sub> - 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

# SAFETY DATA SHEET according to Regulation 1907/2006

Product name: **EXRR-2**

Creation date: **1.7.2014** · Revision: **16.10.2020** · Version: **1**

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## Key literature references and sources for data

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## List of relevant H phrases

- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage.
- H332 Harmful if inhaled.
- H412 Harmful to aquatic life with long lasting effects.



- Provided correct labelling of the product
- Compliance with the local legislation
- Provided correct classification of the product
- Provided adequate transport data

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The information of this SDS is based on the present state of our knowledge and meets the requirements of EU and national laws. The user's working conditions however, are beyond our knowledge and control. The product is not to be used for purposes other than those specified under Section 1 without a written permission. It remains the responsibility of the user to ensure that the necessary steps are taken to meet the laws and regulations. Handling of the product may only be done by people above 18 years of age, who are satisfactorily informed of how to do the work, the hazardous properties and necessary safety precautions. The information given in this SDS is to describe the product only in terms of health and safety requirements and should not, therefore, be construed as guaranteeing specific properties.