

SAFETY DATA SHEET



Barrier 80 XT Comp B

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

1.1 Product identifier

Product name : Barrier 80 XT Comp B
Product code : 54963
Product description : Hardener.
Product type : Liquid.
Other means of identification : Not available.

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

Identified uses

Use in coatings - Industrial use
Use in coatings - Professional use

Uses advised against

Not applicable.

1.3 Details of the supplier of the safety data sheet

Jotun A/S
P.O. Box 2021
3202 Sandefjord Norway

Tel: + 47 33 45 70 00
Fax: +47 33 45 72 42
sdsjotun@jotun.no

1.4 Emergency telephone number

Norwegian National Poison Centre: +47 22 59 13 00

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226
Acute Tox. 4, H302
Skin Corr. 1B, H314
Eye Dam. 1, H318
Skin Sens. 1, H317
STOT SE 3, H335
STOT RE 2, H373 (hearing organs)
Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

Barrier 80 XT Comp B

SECTION 2: Hazards identification

2.2 Label elements

Hazard pictograms



Signal word

: Danger.

Hazard statements

: H226 - Flammable liquid and vapour.
H302 - Harmful if swallowed.
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.
H335 - May cause respiratory irritation.
H373 - May cause damage to organs through prolonged or repeated exposure. (hearing organs)
H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements

General

: Not applicable.

Prevention

: P280 - Wear protective gloves, protective clothing and eye or face protection.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P273 - Avoid release to the environment.
P260 - Do not breathe vapour.
P270 - Do not eat, drink or smoke when using this product.

Response

: P391 - Collect spillage.
P304 + P310 - IF INHALED: Immediately call a POISON CENTER or doctor.
P301 + P310, P330, P331 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.
P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
P363 - Wash contaminated clothing before reuse.
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.

Storage

: P403 + P233 - Store in a well-ventilated place. Keep container tightly closed.
P403 + P235 - Keep cool.

Disposal

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements

: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings

: Not applicable.

Tactile warning of danger

: Not applicable.

2.3 Other hazards

Barrier 80 XT Comp B

SECTION 2: Hazards identification

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

Other hazards which do not result in classification : None known.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Type
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤39	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
aminepoxyadduct	CAS: 1075254-00-0	≤50	Acute Tox. 4, H302 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 2, H411	ATE [Oral] = 500 mg/kg	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≤13	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≤25	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317	ATE [Oral] = 1200 mg/kg	[1]
3-aminomethyl-3,5,5-trimethylcyclohexylamine	REACH #: 01-2119514687-32 EC: 220-666-8 CAS: 2855-13-2 Index: 612-067-00-9	≤10	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317	ATE [Oral] = 1030 mg/kg Skin Sens. 1, H317: C ≥ 0.001%	[1]
2-methylpentane-1,5-diamine	EC: 239-556-6 CAS: 15520-10-2	≤1.7	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 1690 mg/kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1]
2,4,6-tris (dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 Index: 603-069-00-0	≤3	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318	ATE [Oral] = 500 mg/kg	[1]

*Barrier 80 XT Comp B***SECTION 3: Composition/information on ingredients**

			See Section 16 for the full text of the H statements declared above.		
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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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures**4.1 Description of first aid measures**

- General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
- Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
- Inhalation** : Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
- Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
- 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.

4.2 Most important symptoms and effects, both acute and delayedPotential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : May cause respiratory irritation.
- Skin contact** : Causes severe burns. May cause an allergic skin reaction.
- Ingestion** : Harmful if swallowed.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact** : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur
- Ingestion** : Adverse symptoms may include the following:
stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

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SECTION 4: First aid measures

- 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.

See toxicological information (Section 11)

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media** : Recommended: alcohol-resistant foam, CO₂, powders, water spray.
- Unsuitable extinguishing media** : Do not use water jet.

5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.
- Hazardous combustion products** : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

5.3 Advice for firefighters

- Special protective actions for fire-fighters** : Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.
- Special protective equipment for fire-fighters** : Appropriate breathing apparatus may be required.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.
- For emergency responders** : If specialised 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".

6.2 Environmental precautions

- : Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

6.3 Methods and material for containment and cleaning up

- : 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). Preferably clean with a detergent. Avoid using solvents.

6.4 Reference to other sections

- : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

Barrier 80 XT Comp B**SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits.

In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard.

Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type.

Keep away from heat, sparks and flame. No sparking tools should be used.

Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding.

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed.

Put on appropriate personal protective equipment (see Section 8).

Never use pressure to empty. Container is not a pressure vessel.

Always keep in containers made from the same material as the original one.

Comply with the health and safety at work laws.

Do not allow to enter drains or watercourses.

Information on fire and explosion protection

Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process and until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

Liquid paint and washing water with paint residues must not be emptied into drains or watercourses. It must be delivered to an approved local environmental protection station.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations.

Notes on joint storage

Keep away from: oxidising agents, strong alkalis, strong acids.

Additional information on storage conditions

Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Seveso Directive - Reporting thresholds**Danger criteria**

Category	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonnes	50000 tonnes
E2	200 tonnes	500 tonnes

See Technical Data Sheet / packaging for further information.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

*Barrier 80 XT Comp B***SECTION 8: Exposure controls/personal protection**

The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parametersOccupational exposure limits

Product/ingredient name	Exposure limit values
xylene	FOR-2011-12-06-1358 (Norway, 12/2025) [xylen] Absorbed through skin. TWA 8 hours: 25 ppm. TWA 8 hours: 108 mg/m ³ . EU OEL (Europe, 1/2022) [xylene, mixed isomers] Absorbed through skin. TWA 8 hours: 50 ppm. TWA 8 hours: 221 mg/m ³ . STEL 15 minutes: 100 ppm. STEL 15 minutes: 442 mg/m ³ .
ethylbenzene	FOR-2011-12-06-1358 (Norway, 12/2025) Carc. Absorbed through skin. TWA 8 hours: 5 ppm. TWA 8 hours: 20 mg/m ³ . EU OEL (Europe, 1/2022) Absorbed through skin. TWA 8 hours: 100 ppm. TWA 8 hours: 442 mg/m ³ . STEL 15 minutes: 200 ppm. STEL 15 minutes: 884 mg/m ³ .

Biological exposure indices

No exposure indices known.

Recommended monitoring procedures : Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Result
xylene	DNEL - General population - Long term - Oral 5 mg/kg bw/day <u>Effects:</u> Systemic DNEL - General population - Long term - Inhalation 65.3 mg/m ³ <u>Effects:</u> Local DNEL - General population - Long term - Inhalation 65.3 mg/m ³ <u>Effects:</u> Systemic DNEL - General population - Long term - Dermal 125 mg/kg bw/day <u>Effects:</u> Systemic DNEL - Workers - Long term - Dermal 212 mg/kg bw/day <u>Effects:</u> Systemic DNEL - Workers - Long term - Inhalation 221 mg/m ³ <u>Effects:</u> Local

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SECTION 8: Exposure controls/personal protection

ethylbenzene

DNEL - Workers - Long term - Inhalation221 mg/m³Effects: Systemic**DNEL - General population - Short term - Inhalation**260 mg/m³Effects: Local**DNEL - General population - Short term - Inhalation**260 mg/m³Effects: Systemic**DNEL - Workers - Short term - Inhalation**442 mg/m³Effects: Local**DNEL - Workers - Short term - Inhalation**442 mg/m³Effects: Systemic**DNEL - Workers - Long term - Inhalation**442 mg/m³Effects: Local**DNEL - Workers - Short term - Inhalation**884 mg/m³Effects: Systemic**DNEL - General population - Long term - Oral**

1.6 mg/kg bw/day

Effects: Systemic**DNEL - General population - Long term - Inhalation**15 mg/m³Effects: Systemic**DNEL - Workers - Long term - Inhalation**77 mg/m³Effects: Systemic**DNEL - Workers - Long term - Dermal**

180 mg/kg bw/day

Effects: Systemic**DNEL - Workers - Short term - Inhalation**293 mg/m³Effects: Local

benzyl alcohol

DNEL - General population - Long term - Oral

4 mg/kg bw/day

Effects: Systemic**DNEL - General population - Long term - Dermal**

4 mg/kg bw/day

Effects: Systemic**DNEL - General population - Long term - Inhalation**5.4 mg/m³Effects: Systemic**DNEL - Workers - Long term - Dermal**

8 mg/kg bw/day

Effects: Systemic**DNEL - General population - Short term - Oral**

20 mg/kg bw/day

Effects: Systemic**DNEL - General population - Short term - Dermal**

20 mg/kg bw/day

Effects: Systemic**DNEL - Workers - Long term - Inhalation**22 mg/m³Effects: Systemic**DNEL - General population - Short term - Inhalation**27 mg/m³Effects: Systemic

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SECTION 8: Exposure controls/personal protection

3-aminomethyl-
3,5,5-trimethylcyclohexylamine

DNEL - Workers - Short term - Dermal

40 mg/kg bw/day

Effects: Systemic**DNEL - Workers - Short term - Inhalation**110 mg/m³Effects: Systemic**DNEL - General population - Consumers - Long term - Oral**

0.526 mg/kg bw/day

Effects: Systemic**DNEL - Workers - Short term - Inhalation**0.073 mg/m³Effects: Local**DNEL - Workers - Long term - Inhalation**0.073 mg/m³Effects: Local**DNEL - General population - Long term - Oral**

0.3 mg/kg bw/day

Effects: Systemic**DNEL - General population - Short term - Oral**

0.3 mg/kg bw/day

Effects: Systemic

2-methylpentane-1,5-diamine

DNEL - General population - Long term - Inhalation0.125 mg/m³Effects: Local**DNEL - General population - Short term - Inhalation**0.25 mg/m³Effects: Local**DNEL - Workers - Long term - Inhalation**0.25 mg/m³Effects: Local**DNEL - Workers - Short term - Inhalation**0.5 mg/m³Effects: Local**DNEL - General population - Long term - Oral**

0.25 mg/kg bw/day

Effects: Systemic

2,4,6-tris(dimethylaminomethyl)phenol

DNEL - Workers - Long term - Dermal

0.2 mg/kg bw/day

Effects: Systemic**DNEL - Workers - Long term - Inhalation**0.31 mg/m³Effects: Systemic**DNEL - General population - Long term - Oral**

0.075 mg/kg bw/day

Effects: Systemic**DNEL - General population - Short term - Dermal**

0.075 mg/kg bw/day

Effects: Systemic**DNEL - General population - Long term - Dermal**

0.075 mg/kg bw/day

Effects: Systemic**DNEL - General population - Short term - Inhalation**0.13 mg/m³Effects: Systemic**DNEL - General population - Long term - Inhalation**0.13 mg/m³Effects: Systemic**DNEL - Workers - Long term - Dermal**

0.15 mg/kg bw/day

Effects: Systemic

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SECTION 8: Exposure controls/personal protection**DNEL - Workers - Long term - Inhalation**0.53 mg/m³Effects: Systemic**DNEL - Workers - Short term - Dermal**

0.6 mg/kg bw/day

Effects: Systemic**DNEL - Workers - Short term - Inhalation**2.1 mg/m³Effects: Systemic**PNECs****Product/ingredient name**

xylene

Result**Fresh water**

0.327 mg/l

Marine

0.327 mg/l

Sewage Treatment Plant

6.58 mg/l

Fresh water sediment

12.46 mg/kg dwt

Marine water sediment

12.46 mg/kg dwt

Soil

2.31 mg/kg dwt

Fresh water

0.1 mg/l

Marine

0.01 mg/l

Sewage Treatment Plant

9.6 mg/l

Fresh water sediment

13.7 mg/kg dwt

Soil

2.68 mg/kg dwt

Secondary Poisoning

20 mg/kg

ethylbenzene

Fresh water

1 mg/l

Marine

0.1 mg/l

Sewage Treatment Plant

39 mg/l

Fresh water sediment

5.27 mg/kg dwt

Marine water sediment

0.527 mg/kg dwt

Soil

0.456 mg/kg dwt

Fresh water

0.06 mg/l

Marine

0.006 mg/l

Sewage Treatment Plant

3.18 mg/l

Fresh water sediment

5.784 mg/kg dwt

Marine water sediment

0.578 mg/kg dwt

Soil

1.121 mg/kg dwt

3-aminomethyl-

3,5,5-trimethylcyclohexylamine

SECTION 8: Exposure controls/personal protection

2,4,6-tris(dimethylaminomethyl)phenol

Fresh water

0.084 mg/l

Marine

0.0084 mg/l

Sewage Treatment Plant

0.2 mg/l

8.2 Exposure controls

Appropriate engineering controls : Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn.

Individual protection measures

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 to EN 166 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.

Skin protection**Hand protection**

There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals.

The breakthrough time must be greater than the end use time of the product.

The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed.

Gloves should be replaced regularly and if there is any sign of damage to the glove material.

Always ensure that gloves are free from defects and that they are stored and used correctly.

The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance.

Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Gloves

Wear suitable gloves tested to EN 374.

Recommended, gloves(breakthrough time) > 8 hours: Teflon (> 0.35 mm), polyvinyl alcohol (PVA) (> 0.3 mm), 4H/Silver Shield® (> 0.07 mm), fluor rubber (> 0.35 mm), Viton® (> 0.7 mm), nitrile rubber (> 0.75 mm)

May be used, gloves(breakthrough time) 4 - 8 hours: PVC (> 0.5 mm), neoprene (> 0.35 mm), butyl rubber (> 0.4 mm)

For right choice of glove materials, with focus on chemical resistance and time of penetration, seek advice by the supplier of chemical resistant gloves.

The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Body protection : Use chemical-resistant protective suit / disposable overall.

Personnel should wear antistatic clothing made of natural fibres or of high-temperature-resistant synthetic fibres.

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.

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SECTION 8: Exposure controls/personal protection

Respiratory protection : If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. Use respiratory mask with charcoal and dust filter when spraying this product, according to EN 14387 (as filter combination A2-P2). In confined spaces, use compressed-air or fresh-air respiratory equipment. When use of roller or brush, consider use of charcoalfilter.

Environmental exposure controls : Do not allow to enter drains or watercourses.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties**Appearance**

Physical state : Liquid.
Colour : Colourless to light yellow.
Odour : Amine-like.
Odour threshold : Not applicable.
Melting point/freezing point : Not available.
Boiling point or initial boiling point and boiling range : Not available.
Flammability : Not applicable.
Lower and upper explosion limit : Not available.
Flash point : Closed cup: 28°C
Auto-ignition temperature : Not available.

Ingredient name	°C	°F	Method
xylene	432	809.6	
ethylbenzene	432.22	810	
benzyl alcohol	436	816.8	

Decomposition temperature : Not available.
pH : Not applicable.
Viscosity : Dynamic (room temperature): Not available.
 Kinematic (room temperature): Not available.
 Kinematic (40°C): >20.5 mm²/s

Solubility :

Media	Result
cold water	Not soluble
hot water	Not soluble

Solubility in water : Not available.

Partition coefficient: n-octanol/ water : Not applicable.

Vapour pressure : Not available.

Ingredient name	Vapour Pressure at 20°C			Vapour pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
ethylbenzene	9.30076	1.2				
xylene	6.7	0.89				
benzyl alcohol	0.05	0.0067				

Density : 0.948 g/cm³

Vapour density : Not available.

Particle characteristics

Median particle size : Not applicable.

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SECTION 9: Physical and chemical properties

- 9.2 Other information
- 9.2.1 Information with regard to physical hazard classes
- Explosive properties : Not available.
- Oxidising properties : Not available.
- 9.2.2 Other safety characteristics
- No additional information.

SECTION 10: Stability and reactivity

- 10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.
- 10.2 Chemical stability : Stable under recommended storage and handling conditions (see Section 7).
- 10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.
- 10.4 Conditions to avoid : When exposed to high temperatures may produce hazardous decomposition products.
- 10.5 Incompatible materials : Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
- 10.6 Hazardous decomposition products : Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity	
Product/ingredient name	Result
xylene	Rat - Oral - LD50 4300 mg/kg <u>Toxic effects:</u> Liver - Other changes Kidney, Ureter, and Bladder - Other changes Rabbit - Dermal - TDLo 4300 mg/kg <u>Toxic effects:</u> Skin After topical exposure - Corrosive
ethylbenzene	Rat - Inhalation - LC50 Vapour 11 mg/l [4 hours] Rat - Oral - LD50 3500 mg/kg <u>Toxic effects:</u> Liver - Other changes Kidney, Ureter, and Bladder - Other changes Rabbit - Dermal - LD50 >5000 mg/kg Rat - Male - Inhalation - LC50 Vapour 11 mg/l [4 hours]
benzyl alcohol	Rat - Oral - LD50 1230 mg/kg <u>Toxic effects:</u> Behavioral - Somnolence (general depressed activity) Behavioral - Excitement Behavioral - Coma
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Rat - Oral - LD50 1030 mg/kg
2-methylpentane-1,5-diamine	Rat - Oral - LD50 1690 mg/kg
2,4,6-tris(dimethylaminomethyl)phenol	

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SECTION 11: Toxicological information**Rat - Oral - LD50**

500 mg/kg

Conclusion/Summary [Product] : Not available.**Acute toxicity estimates**

Product/ingredient name	Oral (mg/kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
Barrier 80 XT Comp B	1361.7	2727.6	N/A	20.7	N/A
xylene	4300	1100	N/A	11	N/A
aminepoxyadduct	500	N/A	N/A	N/A	N/A
ethylbenzene	3500	N/A	N/A	11	N/A
benzyl alcohol	1200	N/A	N/A	N/A	N/A
3-aminomethyl-3,5,5-trimethylcyclohexylamine	1030	N/A	N/A	N/A	N/A
2-methylpentane-1,5-diamine	1690	1100	N/A	11	N/A
2,4,6-tris(dimethylaminomethyl)phenol	500	N/A	N/A	N/A	N/A

Skin corrosion/irritation**Product/ingredient name**

xylene

2-methylpentane-1,5-diamine

2,4,6-tris(dimethylaminomethyl)phenol

Result**Rat - Skin - Mild irritant**Duration of treatment/exposure: 8 hoursAmount/concentration applied: 60 microliters**Rabbit - Skin - Severe irritant**Amount/concentration applied: 0.5 Milliliters**Rat - Skin - Severe irritant**Amount/concentration applied: 0.25 ml**Conclusion/Summary [Product]** : Not available.**Serious eye damage/eye irritation****Product/ingredient name**

xylene

aminepoxyadduct

benzyl alcohol

2-methylpentane-1,5-diamine

2,4,6-tris(dimethylaminomethyl)phenol

Result**Rabbit - Eyes - Mild irritant**Amount/concentration applied: 87 milligrams**Mammal - species unspecified - Eyes - Irritant****Mammal - species unspecified - Eyes - Mild irritant****Rabbit - Eyes - Severe irritant**Amount/concentration applied: 0.1 Milliliters**Rabbit - Eyes - Severe irritant**Duration of treatment/exposure: 24 hoursAmount/concentration applied: 50 µg**Conclusion/Summary [Product]** : Not available.**Respiratory corrosion/irritation**

Not available.

Conclusion/Summary [Product] : Not available.**Respiratory or skin sensitization****Product/ingredient name****Result**

*Barrier 80 XT Comp B***SECTION 11: Toxicological information**

aminepoxyyadduct

Mammal - species unspecified - skinResult: Sensitising3-aminomethyl-
3,5,5-trimethylcyclohexylamine**Mammal - species unspecified - skin**Result: Sensitising**Skin****Conclusion/Summary [Product]** : Not available.**Ingredient name****Conclusion/Summary**

aminepoxyyadduct

May cause an allergic skin reaction.

3-aminomethyl-

May cause an allergic skin reaction.

3,5,5-trimethylcyclohexylamine

Respiratory**Conclusion/Summary [Product]** : Not available.**Germ cell mutagenicity**

Not available.

Conclusion/Summary [Product] : Not available.**Carcinogenicity**

Not available.

Conclusion/Summary [Product] : Not available.**Reproductive toxicity**

Not available.

Conclusion/Summary [Product] : Not available.**Specific target organ toxicity (single exposure)****Product/ingredient name****Result**

xylene

STOT SE 3, H335 (Respiratory tract irritation)

2-methylpentane-1,5-diamine

STOT SE 3, H335 (Respiratory tract irritation)

Specific target organ toxicity (repeated exposure)**Product/ingredient name****Result**

ethylbenzene

STOT RE 2, H373 (hearing organs)

Aspiration hazard**Product/ingredient name****Result**

xylene

ASPIRATION HAZARD - Category 1

ethylbenzene

ASPIRATION HAZARD - Category 1

Information on likely routes of exposure

Not available.

Potential acute health effects**Eye contact** : Causes serious eye damage.**Inhalation** : May cause respiratory irritation.**Skin contact** : Causes severe burns. May cause an allergic skin reaction.**Ingestion** : Harmful if swallowed.**Symptoms related to the physical, chemical and toxicological characteristics**

Barrier 80 XT Comp B

SECTION 11: Toxicological information

- Eye contact** : Adverse symptoms may include the following:
pain
watering
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- 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 as well as 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 effects

Not available.

Conclusion/Summary [Product] : Not available.

General : May cause damage to organs through prolonged or repeated exposure. 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.

Reproductive toxicity : No known significant effects or critical hazards.

11.2 Information on other hazards**11.2.1 Endocrine disrupting properties**

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

11.2.2 Other information

Not available.

SECTION 12: Ecological information**12.1 Toxicity**

There are no data available on the mixture itself.
Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result
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Barrier 80 XT Comp B

SECTION 12: Ecological information

xylene	Acute - LC50 - Marine water Crustaceans - Daggerblade grass shrimp - <i>Palaemonetes pugio</i> 8500 µg/l [48 hours] <u>Effect</u> : Mortality Acute - LC50 - Fresh water Fish - Fathead minnow - <i>Pimephales promelas</i> Age: 31 days; Size: 18.4 mm; Weight: 0.077 g 13400 µg/l [96 hours] <u>Effect</u> : Mortality
aminepoxyadduct	Acute - LC50 Fish - Trout - <i>Oncorhynchus Mykiss</i> 7.9 mg/l [96 hours] Acute - EC50 Daphnia - <i>Daphnia magna</i> 5.7 mg/l [48 hours] Acute - EC50 Algae - <i>Pseudokirchneriella subcapitata</i> 8.1 mg/l [72 hours]
ethylbenzene	Acute - EC50 Daphnia 2.93 mg/l [48 hours] <u>Effect</u> : Intoxication Acute - LC50 Fish 4.2 mg/l [96 hours] <u>Effect</u> : Mortality Acute - EC50 - Marine water Algae - Diatom - <i>Skeletonema costatum</i> 7700 µg/l [96 hours] <u>Effect</u> : Population
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	Acute - LC50 Fish 110 mg/l [96 hours] Acute - EC50 OECD 202 Daphnia 23 mg/l [48 hours] Acute - EC50 Crustaceans 388 mg/l [48 hours]

Conclusion/Summary [Product] : Not available.**12.2 Persistence and degradability**

Product/ingredient name	Result
aminepoxyadduct	0% [28 days] - Not readily

Conclusion/Summary [Product] : Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
xylene	-	-	Readily
aminepoxyadduct	-	-	Not readily
ethylbenzene	-	-	Readily
benzyl alcohol	-	-	Readily
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	-	-	Not readily

Barrier 80 XT Comp B

SECTION 12: Ecological information**12.3 Bioaccumulative potential**

Product/ingredient name	LogP _{ow}	BCF	Potential
xylene	3.12	8.1 to 25.9	Low
ethylbenzene	3.6	-	Low
benzyl alcohol	0.87	<100	Low
3-aminomethyl-	0.99	-	Low
3,5,5-trimethylcyclohexylamine	0.219	-	Low
2,4,6-tris			
(dimethylaminomethyl)			
phenol			

12.4 Mobility in soil**Soil/water partition coefficient**

Product/ingredient name	logKoc	Koc
ethylbenzene	2.2	170.406
benzyl alcohol	1.1	12.6442
3-aminomethyl-	2	98.3852
3,5,5-trimethylcyclohexylamine	1.4	27.2997
2-methylpentane-1,5-diamine		
2,4,6-tris(dimethylaminomethyl)phenol		
	2.7	525.589

Results of PMT and vPvM assessment

Product/ingredient name	PMT	P	M	T	vPvM	vP	vM
xylene	No	No	No	No	No	No	No
amineoxyadduct	No	No	No	No	No	No	No
ethylbenzene	No	No	No	No	No	No	No
benzyl alcohol	No	No	No	No	No	No	No
3-aminomethyl-	No	No	No	No	No	No	No
3,5,5-trimethylcyclohexylamine	No	No	No	No	No	No	No
2-methylpentane-							
1,5-diamine							
2,4,6-tris	No	No	No	No	No	No	No
(dimethylaminomethyl)							
phenol							

Mobility : Not available.**Conclusion/Summary** : The product does not meet the criteria to be considered as a PMT or vPvM.**12.5 Results of PBT and vPvB assessment****Regulation (EC) No. 1907/2006 [REACH]**

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
xylene	No	N/A	No	No	No	N/A	No
amineoxyadduct	No	N/A	N/A	No	N/A	N/A	N/A
ethylbenzene	N/A	N/A	N/A	Yes	N/A	N/A	N/A
benzyl alcohol	No	N/A	No	No	No	N/A	No
3-aminomethyl-	No	N/A	N/A	No	N/A	N/A	N/A
3,5,5-trimethylcyclohexylamine	No	N/A	N/A	No	N/A	N/A	N/A
2-methylpentane-							
1,5-diamine							
2,4,6-tris	No	N/A	N/A	No	N/A	N/A	N/A
(dimethylaminomethyl)							
phenol							

Regulation (EC) No. 1272/2008 [CLP]

Barrier 80 XT Comp B**SECTION 12: Ecological information**

Product/ingredient name	PBT	P	B	T	vPvB	vP	vB
xylene	No	No	No	No	No	No	No
aminepoxyadduct	No	No	No	No	No	No	No
ethylbenzene	No	No	No	No	No	No	No
benzyl alcohol	No	No	No	No	No	No	No
3-aminomethyl-	No	No	No	No	No	No	No
3,5,5-trimethylcyclohexylamine	No	No	No	No	No	No	No
2-methylpentane-	No	No	No	No	No	No	No
1,5-diamine	No	No	No	No	No	No	No
2,4,6-tris	No	No	No	No	No	No	No
(dimethylaminomethyl)	No	No	No	No	No	No	No
phenol	No	No	No	No	No	No	No

Conclusion/Summary Regulation (EC) No. 1272/2008 [CLP] : The product does not meet the criteria to be considered as a PBT or vPvB.

12.6 Endocrine disrupting properties

Not available.

Conclusion/Summary [Product] : The product does not meet the criteria to be considered as having endocrine disrupting properties according to the criteria set out in either Regulation (EC) No. 1907/2006 or Regulation (EC) No 1272/2008.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods**Product**

Methods of disposal : The generation of waste should be avoided or minimised 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.

Hazardous waste : Yes.

Disposal considerations : Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Waste code	Waste designation
08 01 11*	Waste paint and varnish containing organic solvents or other dangerous substances

Packaging

Methods of disposal : The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Barrier 80 XT Comp B

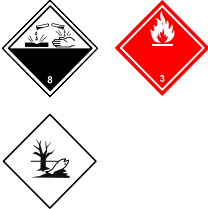
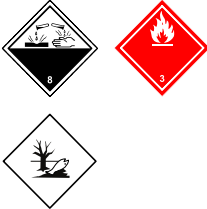
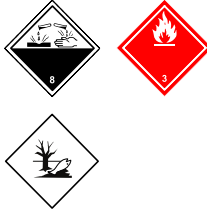
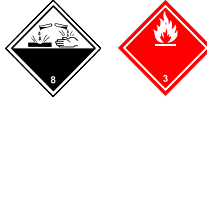
SECTION 13: Disposal considerations

Disposal considerations : Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.

Type of packaging	European waste catalogue (EWC)
CEPE Guidelines	15 01 10* packaging containing residues of or contaminated by hazardous substances

Special precautions : 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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	ADN	IMDG	IATA
14.1 UN number or ID number	UN3470	UN3470	UN3470	UN3470
14.2 UN proper shipping name	Paint related material, corrosive, flammable	Paint related material, corrosive, flammable	Paint related material, corrosive, flammable. Marine pollutant (aminepoxyadduct)	Paint related material, corrosive, flammable
14.3 Transport hazard class(es)	8 (3) 	8 (3) 	8 (3) 	8 (3) 
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information**ADR/RID**

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Hazard identification number 83

Tunnel code (D/E)

ADN

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

IMDG

: The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. **Emergency schedules** F-E, S-C

Segregation Group: 18- Alkalis

IATA

: The environmentally hazardous substance mark may appear if required by other transportation regulations.

Barrier 80 XT Comp B

SECTION 14: Transport information

14.6 Special 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 in the event of an accident or spillage.

14.7 Maritime transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed above the relevant limit.

Substances of very high concern

None of the components are listed above the relevant limit.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Product/ingredient name	%	Designation [Usage]
Barrier 80 XT Comp B	≥90	3

Labelling : Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable.

Other EU regulations

VOC : The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.

VOC for Ready-for-Use Mixture : Not available.

Industrial emissions (integrated pollution prevention and control) - Air : Not listed

Industrial emissions (integrated pollution prevention and control) - Water : Not listed

Explosive precursors : Not applicable.

Ozone depleting substances (EU 2024/590)

Not listed.

Prior Informed Consent (PIC) (649/2012/EU)

Not listed.

Persistent Organic Pollutants

Not listed.

Seveso Directive

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

Barrier 80 XT Comp B

SECTION 15: Regulatory information

National regulations

Industrial use

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

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.

15.2 Chemical safety assessment

: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
 ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
 ATE = Acute Toxicity Estimate
 B = Bioaccumulative
 BCF = Bioconcentration Factor
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
 DMEL = Derived Minimal Effect Level
 DNEL = Derived No Effect Level
 EUH statement = CLP-specific Hazard statement
 IATA = International Air Transport Association
 IMDG = International Maritime Dangerous Goods
 IMO = International Maritime Organization
 M = Mobile
 N/A = Not available
 P = Persistent
 PBT = Persistent, Bioaccumulative and Toxic
 PMT = Persistent, Mobile and Toxic
 PNEC = Predicted No Effect Concentration
 RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
 RRN = REACH Registration Number
 SGG = Segregation Group
 T = Toxic
 vB = Very Bioaccumulative
 vM = Very Mobile
 vP = Very Persistent
 vPvB = Very Persistent and Very Bioaccumulative
 vPvM = Very Persistent and Very Mobile

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Barrier 80 XT Comp B**SECTION 16: Other information**

Classification	Justification
Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 STOT RE 2, H373 (hearing organs) Aquatic Chronic 2, H411	On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Chronic 2	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Skin Corr. 1A	SKIN CORROSION/IRRITATION - Category 1A
Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
Skin Sens. 1A	SKIN SENSITISATION - Category 1A
Skin Sens. 1B	SKIN SENSITISATION - Category 1B
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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