

# SAFETY DATA SHEET

Date of issue/Date of revision

: 1 April 2026

Version

: 2



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

### 1.1 Product identifier

**Product name** : PPG FLR 610 SL EPOXY CATALYST - B

**Product code** : 00462499

#### Other means of identification

Not available.

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

**Product use** : Industrial applications, Professional applications, Used by spraying.

**Use of the substance/mixture** : Hardener.

**Uses advised against** : Product is not intended, labelled or packaged for consumer use.

### 1.3 Details of the supplier of the safety data sheet

PPG Coatings Belgium BV/SRL

Tweemontstraat 104

B-2100 Deurne

Belgium

Telephone +32-33606311

Fax +32-33606435

**e-mail address of person responsible for this SDS** : Product.Stewardship.EMEA@ppg.com

### 1.4 Emergency telephone number

#### Supplier

+31 20 4075210

## 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]

Skin Corr. 1A, H314

Eye Dam. 1, H318

Skin Sens. 1, H317

Repr. 2, H361fd

Aquatic Acute 1, H400

Aquatic Chronic 1, H410

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.

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## SECTION 2: Hazards identification

### 2.2 Label elements

Hazard pictograms



Signal word

: Danger

Hazard statements

: Causes severe skin burns and eye damage.  
May cause an allergic skin reaction.  
Suspected of damaging fertility. Suspected of damaging the unborn child.  
Very toxic to aquatic life with long lasting effects.

Prevention

: Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment.

Response

: Collect spillage. IF INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor.

Storage

: Not applicable.

Disposal

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

P280, P273, P391, P304 + P310, P301 + P310, P501

Hazardous ingredients

: Poly[oxy(methyl-1,2-ethanediyl)],  $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)-; benzyl alcohol; reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight  $\leq$  700); 4-nonylphenol, branched; 1,3-Cyclohexanedimethanamine; amine blend and m-phenylenebis(methylamine)

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

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.

Product meets the criteria for endocrine disrupting properties according to Regulation (EC) No. 1907/2006.

: Contains 4-nonylphenol, branched and 4-tert-butylphenol. May cause endocrine disruption.

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## SECTION 2: Hazards identification

Other hazards which do not result in classification : Causes digestive tract burns.

## SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	% by weight	Classification	Specific Conc. Limits, M-factors and ATEs	Type
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)-	REACH #: 01-2119557899-12 EC: 618-561-0 CAS: 9046-10-0 (n = 2-6)	$\geq 50$ - $\leq 75$	Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412	-	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	$\geq 10$ - $\leq 12$	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317	ATE [Oral] = 1200 mg/kg	[1]
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight $\leq 700$ )	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 Index: 603-074-00-8	$\geq 10$ - $\leq 25$	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C $\geq 5\%$ Eye Irrit. 2, H319: C $\geq 5\%$	[1]
4-nonylphenol, branched	REACH #: 01-2119510715-45 EC: 284-325-5 CAS: 84852-15-3 Index: 601-053-00-8	$\geq 10$ - $\leq 12$	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361fd Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 1300 mg/kg M [Acute] = 10 M [Chronic] = 10	[1] [3]
1,3-Cyclohexanedimethanamine	EC: 219-941-5 CAS: 2579-20-6	$\geq 10$ - $\leq 12$	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412	ATE [Oral] = 700 mg/kg ATE [Dermal] = 1700 mg/kg	[1]
amine blend	CAS: SUB142334	$\geq 1.0$ - $\leq 4.8$	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1A, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Repr. 2, H361 Aquatic Chronic 3, H412	ATE [Oral] = 500 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1]
m-phenylenebis (methylamine)	REACH #: 01-2119480150-50 EC: 216-032-5 CAS: 1477-55-0	$\geq 1.0$ - $\leq 3.6$	Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 Aquatic Chronic 3, H412 EUH071	ATE [Oral] = 930 mg/kg ATE [Inhalation (gases)] = 4500 ppm	[1] [2]
4-tert-butylphenol	REACH #: 01-2119489419-21	$\geq 1.0$ - $\leq 5.0$	Skin Irrit. 2, H315 Eye Dam. 1, H318	M [Chronic] = 1	[1] [3]

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### SECTION 3: Composition/information on ingredients

	EC: 202-679-0 CAS: 98-54-4 Index: 604-090-00-8		Repr. 2, H361f Aquatic Chronic 1, H410  <b>See Section 16 for the full text of the H statements declared above.</b>	
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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
- [3] Substance of equivalent concern - Endocrine disrupting properties

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

**SUB codes represent substances without registered CAS Numbers.**

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

- 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 recognized skin cleanser. Do NOT use solvents or thinners.
- Ingestion** : If swallowed, seek medical advice immediately and show this 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 delayed

##### Potential acute health effects

- Eye contact** : Causes serious eye damage.
- Inhalation** : No known significant effects or critical hazards.
- Skin contact** : Causes severe burns. May cause an allergic skin reaction.
- Ingestion** : Corrosive to the digestive tract. Causes burns.

##### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
  - pain
  - watering
  - redness
- Inhalation** : Adverse symptoms may include the following:
  - reduced fetal weight
  - increase in fetal deaths
  - skeletal malformations

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## SECTION 4: First aid measures

- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
stomach pains  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

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

- 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.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media** : Use an extinguishing agent suitable for the surrounding fire.
- Unsuitable extinguishing media** : None known.

### 5.2 Special hazards arising from the substance or mixture

- Hazards from the substance or mixture** : In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon oxides  
nitrogen oxides  
halogenated compounds

### 5.3 Advice for firefighters

- Special precautions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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## SECTION 6: Accidental release measures

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

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

- : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

### 6.3 Methods and materials for containment and cleaning up

- Small spill** : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product.

### 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.

## 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

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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## SECTION 7: Handling and storage

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

: Do not store above the following temperature: 50°C (122°F). Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

### 7.3 Specific end use(s)

See Section 1.2 for Identified uses.

## SECTION 8: Exposure controls/personal protection

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).

### 8.1 Control parameters

#### Occupational exposure limits

Product/ingredient name	Exposure limit values
m-phenylenebis(methylamine)	ACGIH TLV (United States, 1/2025) Absorbed through skin. C: 0.018 ppm.

#### 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	Exposure	Value
Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-benzyl alcohol  reaction product:	DNEL - Workers - Long term - Inhalation	<i>Systemic</i> 1.36 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Dermal	<i>Systemic</i> 2.5 mg/kg bw/day
	DNEL - General population - Long term - Oral	<i>Systemic</i> 4 mg/kg bw/day
	DNEL - General population - Long term - Dermal	<i>Systemic</i> 4 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	<i>Systemic</i> 5.4 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Dermal	<i>Systemic</i> 8 mg/kg bw/day
	DNEL - General population - Short term - Oral	<i>Systemic</i> 20 mg/kg bw/day
	DNEL - General population - Short term - Dermal	<i>Systemic</i> 20 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation	<i>Systemic</i> 22 mg/m <sup>3</sup>
	DNEL - General population - Short term - Inhalation	<i>Systemic</i> 27 mg/m <sup>3</sup>
	DNEL - Workers - Short term - Dermal	<i>Systemic</i> 40 mg/kg bw/day
	DNEL - Workers - Short term - Inhalation	<i>Systemic</i> 110 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Inhalation	<i>Systemic</i> 12.25 mg/m <sup>3</sup>

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bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	DNEL - Workers - Short term - Inhalation	<i>Systemic</i>	12.25 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Dermal	<i>Systemic</i>	8.33 mg/kg bw/day
	DNEL - Workers - Short term - Dermal	<i>Systemic</i>	8.33 mg/kg bw/day
	DNEL - General population - Consumers - Long term - Dermal	<i>Systemic</i>	3.571 mg/kg bw/day
	DNEL - General population - Consumers - Short term - Dermal	<i>Systemic</i>	3.571 mg/kg bw/day
	DNEL - General population - Consumers - Long term - Oral	<i>Systemic</i>	0.75 mg/kg bw/day
	DNEL - General population - Consumers - Short term - Oral	<i>Systemic</i>	0.75 mg/kg bw/day
	DNEL - General population - Short term - Oral	<i>Systemic</i>	0.4 mg/kg bw/day
	DNEL - General population - Short term - Inhalation	<i>Systemic</i>	0.8 mg/m <sup>3</sup>
	DNEL - General population - Short term - Dermal	<i>Systemic</i>	7.6 mg/kg bw/day
	DNEL - General population - Long term - Oral	<i>Systemic</i>	0.08 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	<i>Systemic</i>	0.4 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Inhalation	<i>Systemic</i>	0.5 mg/m <sup>3</sup>
	DNEL - Workers - Short term - Inhalation	<i>Systemic</i>	1 mg/m <sup>3</sup>
4-nonylphenol, branched	DNEL - General population - Long term - Dermal	<i>Systemic</i>	3.8 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	<i>Systemic</i>	7.5 mg/kg bw/day
	DNEL - Workers - Short term - Dermal	<i>Systemic</i>	15 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation	<i>Local</i>	9.47 µg/m <sup>3</sup>
	DNEL - Workers - Long term - Dermal	<i>Systemic</i>	0.1 mg/kg bw/day
	DNEL - Workers - Short term - Dermal	<i>Systemic</i>	25.2 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation	<i>Local</i>	0.2 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Dermal	<i>Systemic</i>	0.33 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation	<i>Systemic</i>	1.2 mg/m <sup>3</sup>
	DNEL - General population - Long term - Oral	<i>Systemic</i>	0.026 mg/kg bw/day
1,3-Cyclohexanedimethanamine	DNEL - General population - Long term - Dermal	<i>Systemic</i>	0.026 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	<i>Systemic</i>	0.071 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	<i>Systemic</i>	0.09 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Inhalation	<i>Systemic</i>	0.5 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Dermal	<i>Systemic</i>	0.33 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation	<i>Systemic</i>	1.2 mg/m <sup>3</sup>
m-phenylenebis(methylamine)	DNEL - Workers - Long term - Dermal	<i>Systemic</i>	0.33 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation	<i>Systemic</i>	1.2 mg/m <sup>3</sup>
4-tert-butylphenol	DNEL - General population - Long term - Oral	<i>Systemic</i>	0.026 mg/kg bw/day
	DNEL - General population - Long term - Dermal	<i>Systemic</i>	0.026 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	<i>Systemic</i>	0.071 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	<i>Systemic</i>	0.09 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Inhalation	<i>Systemic</i>	0.5 mg/m <sup>3</sup>
	DNEL - Workers - Long term - Dermal	<i>Systemic</i>	0.33 mg/kg bw/day

**PNECs**

Product/ingredient name	Compartment Detail - Method	Value
Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-  reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Fresh water - Assessment Factors	0.015 mg/l
	Marine water - Assessment Factors	0.014 mg/l
	Sewage Treatment Plant - Assessment Factors	7.5 mg/l
	Fresh water sediment - Equilibrium Partitioning	0.132 mg/kg dwt
	Marine water sediment - Equilibrium Partitioning	0.125 mg/kg dwt
	Soil - Equilibrium Partitioning	0.018 mg/kg dwt
	Fresh water - Assessment Factors	0.006 mg/l
	Marine water - Assessment Factors	0.001 mg/l

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	Sewage Treatment Plant - Assessment Factors	10 mg/l
	Fresh water sediment - Equilibrium Partitioning	0.996 mg/kg dwt
	Marine water sediment - Equilibrium Partitioning	0.1 mg/kg dwt

**8.2 Exposure controls**

**Appropriate engineering controls** : If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**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** : Chemical splash goggles and face shield. Use eye protection according to EN 166.

**Skin protection**

**Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. 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.

**Gloves** : nitrile neoprene

**Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

**Respiratory protection** : Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Wear a respirator conforming to EN140. Filter type: organic vapor (Type A) and particulate filter P3

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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## 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.

Color : Amber.

Odor : Characteristic.

Melting point/freezing point : Not determined.

Boiling point or initial boiling point and boiling range : >37.78°C

Flammability : Not determined. There are no data available on the mixture itself.

Lower and upper explosion limit : Not available.

Flash point : Closed cup: 94°C

Auto-ignition temperature :

Ingredient name	°C	°F	Method
4-nonylphenol, branched	372	701.6	ASTM E 659

Decomposition temperature : Stable under recommended storage and handling conditions (see Section 7).

pH : Not applicable. insoluble in water.

Viscosity : Dynamic (room temperature): Not available.  
Kinematic (room temperature): Not available.  
Kinematic (40°C): >21 mm<sup>2</sup>/s

Solubility :

Media	Result
cold water	Not soluble

Partition coefficient n-octanol/water (log Pow) : Not applicable.

Vapor pressure :

Ingredient name	Vapor Pressure at 20°C			Vapor pressure at 50°C		
	mm Hg	kPa	Method	mm Hg	kPa	Method
Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-	0.675	0.09		1.575	0.21	

Relative density : 1.03

#### Particle characteristics

Median particle size : Not applicable.

### 9.2 Other information

#### 9.2.1 Information with regard to physical hazard classes

**Explosive properties** : The product itself is not explosive, but the formation of an explosible mixture of vapor or dust with air is possible.

**Oxidizing properties** : Product does not present an oxidizing hazard.

No additional information.

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## 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** : The product is stable.
- 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. Refer to protective measures listed in sections 7 and 8.
- 10.5 Incompatible materials** : Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.
- 10.6 Hazardous decomposition products** : Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen oxides halogenated compounds

## SECTION 11: Toxicological information

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

The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

Suspected of damaging fertility. Suspected of damaging the unborn child.

#### Acute toxicity

Product/ingredient name	Result	Dose / Exposure
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)-	Rat - Oral - LD50	2885 mg/kg
benzyl alcohol	Rat - Dermal - LD50 Rabbit - Dermal - LD50	2980 mg/kg >2000 mg/kg
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight $\leq$ 700)	Rat - Oral - LD50 Rat - Inhalation - LC50 Dusts and mists Rat - Oral - LD50	1200 mg/kg >5 mg/l [4 hours] >2 g/kg
4-nonylphenol, branched	Rabbit - Dermal - LD50 Rabbit - Dermal - LD50 Rat - Oral - LD50 <i>Toxic effects:</i> Liver - Other changes Blood - Hemorrhage Gross Metabolite Changes - Weight loss or decreased weight gain	>2 g/kg 2.14 g/kg 1300 mg/kg
1,3-Cyclohexanedimethanamine	Rabbit - Dermal - LD50	1700 mg/kg
m-phenylenebis(methylamine)	Rat - Oral - LD50 Rat - Oral - LD50 Rat - Male, Female - Dermal - LD50 Rat - Inhalation - LC50 Gas. <i>Toxic effects:</i> Eye - Lacrimation Lung, Thorax, or Respiration - Respiratory depression	700 mg/kg 930 mg/kg >3100 mg/kg 700 ppm [1 hours]
4-tert-butylphenol	Rat - Oral - LD50 Rabbit - Dermal - LD50	2.95 g/kg 2.29 g/kg

#### Acute toxicity estimates

English (US)

Europe

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Route	ATE value
Oral	2407.48 mg/kg
Dermal	17000 mg/kg
Inhalation (gases)	150000 ppm
Inhalation (vapors)	275 mg/l

**Conclusion/Summary** : Based on available data, the classification criteria are not met.

### Irritation/Corrosion

Product/ingredient name	Result
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight $\leq$ 700)	<u>Rabbit - Skin - Moderate irritant</u>
-	<u>Rabbit - Eyes - Moderate irritant</u>
-	<u>Rabbit - Eyes - Mild irritant</u> Amount/concentration applied: 100 mg
-	<u>Rabbit - Skin - Moderate irritant</u> Amount/concentration applied: 500 UI Duration of treatment/exposure: 24 hours
-	<u>Rabbit - Skin - Severe irritant</u> Amount/concentration applied: 2 mg Duration of treatment/exposure: 24 hours
4-nonylphenol, branched	<u>Rabbit - Skin - Erythema/Eschar</u> Irritation score: 4
m-phenylenebis(methylamine)	<u>Rat - Skin - Severe irritant</u> Duration of treatment/exposure: 4 hours Observation period: 4 hours

### Conclusion/Summary

**Skin** : Causes severe burns.

**Eyes** : Causes serious eye damage.

**Respiratory** : Based on available data, the classification criteria are not met.

### Respiratory or skin sensitization

Product/ingredient name	Test	Result
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight $\leq$ 700)	Mouse - skin OECD 429	Sensitizing
m-phenylenebis(methylamine)	Mouse - skin OECD 429	Sensitizing

### Conclusion/Summary

**Skin** : May cause an allergic skin reaction.

**Respiratory** : Based on available data, the classification criteria are not met.

### Mutagenicity

Based on available data, the classification criteria are not met.

### Carcinogenicity

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Based on available data, the classification criteria are not met.

### Reproductive toxicity

Suspected of damaging fertility. Suspected of damaging the unborn child.

### Specific target organ toxicity (single exposure)

Based on available data, the classification criteria are not met.

### Specific target organ toxicity (repeated exposure)

Based on available data, the classification criteria are not met.

### Aspiration hazard

Based on available data, the classification criteria are not met.

**Information on the likely routes of exposure** : Not available.

### Potential acute health effects

- Inhalation** : No known significant effects or critical hazards.
- Ingestion** : Corrosive to the digestive tract. Causes burns.
- Skin contact** : Causes severe burns. May cause an allergic skin reaction.
- Eye contact** : Causes serious eye damage.

### Symptoms related to the physical, chemical and toxicological characteristics

- Inhalation** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
stomach pains  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Skin contact** : Adverse symptoms may include the following:  
pain or irritation  
redness  
blistering may occur  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Eye contact** : Adverse symptoms may include the following:  
pain  
watering  
redness

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

#### Short term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

#### Long term exposure

- Potential immediate effects** : No known significant effects or critical hazards.
- Potential delayed effects** : No known significant effects or critical hazards.

### Potential chronic health effects

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- General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Reproductive toxicity** : Suspected of damaging fertility. Suspected of damaging the unborn child.
- Other information** : Causes digestive tract burns. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapor/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Exposure to amine vapor has been reported to cause transient corneal edema described as blue haze, halo effect, foggy or blurred vision for several hours. This condition is typically temporary and does not cause permanent visual effects. When the proper eye protection specified in Section 8 is worn, exposure is significantly reduced and the condition has not been observed.

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

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

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.

### 12.1 Toxicity

Product/ingredient name	Result	Species	Dose / Exposure
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)-reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight $\leq$ 700) 4-nonylphenol, branched	EC50	Algae	15 mg/l [72 hours]
	Chronic - NOEC	Daphnia	0.3 mg/l [21 days]
	Acute - LC50	Fish	0.221 mg/l [96 hours]
	Acute - EC50	Crustaceans - Water flea - <i>Moina macrocopa</i>	0.044 mg/l [48 hours]
	Acute - EC50	Algae - Green algae - <i>Raphidocelis subcapitata</i>	0.04 mg/l [72 hours]
1,3-Cyclohexanedimethanamine 4-tert-butylphenol	LC50	Fish - <i>golden orfe</i>	130 mg/l [96 hours]
	Acute - EC50 - Fresh water	Algae - Green algae - <i>Selenastrum capricornutum</i> - Exponential growth phase	16.91 mg/l [72 hours]

**Conclusion/Summary** : Very toxic to aquatic life with long lasting effects.

### 12.2 Persistence and degradability

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## SECTION 12: Ecological information

Product/ingredient name	Test	Result	Dose / Inoculum
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight $\leq$ 700)	OECD 301F	5% [28 days]	

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)-benzyl alcohol	-	-	Not readily
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight $\leq$ 700)	-	-	Readily Not readily

### 12.3 Bioaccumulative potential

Product/ingredient name	LogP <sub>ow</sub>	BCF	Potential
benzyl alcohol	0.87	-	Low
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight $\leq$ 700)	2.64 to 3.78	31	Low
4-nonylphenol, branched	5.4	251.19 [ASTM E 1022-84]	Low
1,3-Cyclohexanedimethanamine	0.783	-	Low
m-phenylenebis(methylamine)	0.18	2.69	Low
4-tert-butylphenol	3	67.61 [OECD 305 C, METI guideline (concentration test on chemical substances in fish)]	Low

### 12.4 Mobility in soil

#### Soil/Water partition coefficient

Product/ingredient name	logK <sub>oc</sub>	K <sub>oc</sub>
benzyl alcohol	1.1	12.6442
reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight $\leq$ 700)	2.6	445
1,3-Cyclohexanedimethanamine	1.6	43.9715
m-phenylenebis(methylamine)	1.7	46.5812
4-tert-butylphenol	3.3	2073.21

### 12.5 Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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## SECTION 12: Ecological information

### 12.6 Endocrine disrupting properties

May cause endocrine disruption.

### 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 minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste** : The classification of the product may meet the criteria for a hazardous waste.

#### Packaging

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

**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. Avoid dispersal of spilled 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	UN3066	UN3066	UN3066	UN3066
14.2 UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	Paint related material
14.3 Transport hazard class(es)	8	8	8	8
14.4 Packing group	II	II	II	II
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	(4-nonylphenol, branched)	Not applicable.

### Additional information

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

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## SECTION 14: Transport information

**Tunnel code** :  (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.  
**IATA** : The environmentally hazardous substance mark may appear if required by other transportation regulations.

**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 applicable.

## 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 authorization](#)

[Annex XIV](#)

None of the components are listed.

[Substances of very high concern](#)

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Endocrine disrupting properties for environment	4-nonylphenol, branched	Candidate	ED/169/2012	12/19/2012
	4-tert-butylphenol	Candidate	ED/71/2019, EU/2019/1194	7/16/2019

[Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles](#)

Product/ingredient name	Entry Number ( REACH )
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4-nonylphenol, branched	46

**Labeling** : Not applicable.

### Other EU regulations

**Explosive precursors** : Not applicable.

[Ozone depleting substances \(EU 2024/590\)](#)

Not listed.

[Persistent Organic Pollutants](#)

Not listed.

### Seveso Directive

This product is controlled under the Seveso Directive.

[Danger criteria](#)


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**SECTION 15: Regulatory information**

<b>Category</b>
E1

**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**

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- PBT = Persistent, Bioaccumulative and Toxic
- vPvB = Very Persistent and Very Bioaccumulative
- ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
- ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
- IMDG = International Maritime Dangerous Goods
- IATA = International Air Transport Association

**Full text of abbreviated H statements**

H302	Harmful if swallowed.
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.
H361	Suspected of damaging fertility or the unborn child.
H361f	Suspected of damaging fertility.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

**Full text of classifications [CLP/GHS]**

Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Chronic 2	AQUATIC HAZARD (LONG-TERM) - Category 2
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Eye Dam. 1	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Repr. 2	TOXIC TO REPRODUCTION - Category 2
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 SENSITIZATION - Category 1

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## SECTION 16: Other information

Skin Sens. 1B	SKIN SENSITIZATION - Category 1B
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### History

**Date of issue/ Date of revision** : 1 April 2026  
**Date of previous issue** : 7 August 2025  
**Prepared by** : EHS  
**Version** : 2

### Disclaimer

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