

SAFETY DATA SHEET

Date of issue/Date of revision

: 24 June 2025

Version

: 17.01



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

1.1 Product identifier

Product name : AMERLOCK SEALER CURE

Product code : 00289027

Other means of identification

Not available.

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

Product use : Industrial applications, Used by spraying.

Use of the substance/
mixture : Coating.

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

National advisory body/Poison Centre

National Poison Information Centre at Beaumont Hospital. Tel: +353 1 8092566, email: npicdublin@beaumont.ie

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]

Acute Tox. 4, H302
Acute Tox. 4, H332
Skin Corr. 1B, H314
Eye Dam. 1, H318
Skin Sens. 1, H317
Carc. 2, H351
STOT SE 3, H335
STOT RE 2, H373

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SECTION 2: Hazards identification

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.

2.2 Label elements

Hazard pictograms

:



- Signal word
- :
- Danger
- Hazard statements
- :
- Harmful if swallowed or if inhaled.
Causes severe skin burns and eye damage.
May cause an allergic skin reaction.
May cause respiratory irritation.
Suspected of causing cancer.
May cause damage to organs through prolonged or repeated exposure.
Toxic to aquatic life with long lasting effects.

Precautionary statements

- Prevention
- :
- Wear protective gloves, protective clothing and eye or face protection. Avoid release to the environment. Do not breathe vapour.
- Response
- :
- Collect spillage.
- Storage
- :
- Store in a well-ventilated place. Keep container tightly closed.
- Disposal
- :
- Dispose of contents and container in accordance with all local, regional, national and international regulations.
P280, P273, P260, P391, P403 + P233, P501
- Hazardous ingredients
- :
- urfuryl alcohol; Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-; benzyl alcohol; Formaldehyde, polymer with benzenamine, hydrogenated; 3,6-diazaoctanethylenediamin and 4,4'-methylenebis(cyclohexylamine)
- 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

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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	: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C/140F. May cause endocrine disruption.

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
2-furfuryl alcohol	REACH #: 01-2119493965-18 EC: 202-626-1 CAS: 98-00-0 Index: 603-018-00-2	≥10 - ≤25	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 3, H331 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373	ATE [Oral] = 500 mg/kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (vapours)] = 3 mg/l	[1] [2]
Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-	REACH #: 01-2119557899-12 EC: 618-561-0 CAS: 9046-10-0 (n = 2-6)	≥10 - ≤25	Skin Corr. 1C, H314 Eye Dam. 1, H318 Aquatic Chronic 3, H412	-	[1]
Polyaminoamide	EC: Polymer CAS: 68082-29-1	≥10 - ≤25	Eye Dam. 1, H318	-	[1]
Formaldehyde, polymer with 1,3-dimethylbenzene	CAS: 26139-75-3	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	-	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥5.0 - ≤10	Acute Tox. 4, H302 Eye Irrit. 2, H319 Skin Sens. 1B, H317	ATE [Oral] = 1200 mg/kg	[1]
Formaldehyde, polymer with benzenamine, hydrogenated	CAS: 135108-88-2	≥5.0 - <10	Acute Tox. 3, H301 Skin Corr. 1C, H314 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT RE 2, H373 (kidneys) (oral) Aquatic Chronic 3, H412	ATE [Oral] = 300 mg/kg	[1]
Fatty acids, tall-oil, reaction products with diethylenetriamine	EC: 263-160-2 CAS: 61790-69-0	≥0.30 - ≤2.4	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT RE 2, H373 (oral) Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/kg M [Acute] = 1 M [Chronic] = 1	[1]

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SECTION 3: Composition/information on ingredients

2,4,6-tris (dimethylaminomethyl) phenol	REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2	≥1.0 - ≤3.9	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318	ATE [Oral] = 1200 mg/kg ATE [Dermal] = 1280 mg/kg	[1]
4-nonylphenol, branched	REACH #: 01-2119510715-45 EC: 284-325-5 CAS: 84852-15-3 Index: 601-053-00-8	≤1.4	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]
3,6-diazaoctanethylenediamin	EC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5	≤1.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	ATE [Oral] = 1716 mg/kg ATE [Dermal] = 1465 mg/kg	[1]
salicylic acid	REACH #: 01-2119486984-17 EC: 200-712-3 CAS: 69-72-7 Index: 607-732-00-5	≥1.0 - <3.0	Acute Tox. 4, H302 Eye Dam. 1, H318 Repr. 2, H361d	ATE [Oral] = 891 mg/kg	[1]
4,4'-methylenebis (cyclohexylamine)	REACH #: 01-2119541673-38 EC: 217-168-8 CAS: 1761-71-3	≥1.0 - ≤3.7	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT RE 2, H373 (liver) (oral) Aquatic Chronic 2, H411 See Section 16 for the full text of the H statements declared above.	ATE [Oral] = 625 mg/kg	[1]

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.

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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 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 delayed

Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	: Harmful if inhaled. May cause respiratory irritation.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed. 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: respiratory tract irritation coughing
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

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.

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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 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
Formaldehyde.

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.

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 spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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

: Avoid dispersal of spilt 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 material 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.

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SECTION 6: Accidental release measures

Large spill	: Stop leak if without risk. Move containers from spill area. Approach the 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 spilt 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. 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 vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°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 unlabelled 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

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Exposure limit values
2-Furfuryl alcohol	NAOSH (Ireland, 4/2024) Absorbed through skin. OELV 8 hours: 5 ppm. OELV 8 hours: 20 mg/m³. OELV 15 minutes: 15 ppm. OELV 15 minutes: 60 mg/m³.

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
2-Furfuryl alcohol	DNEL - General population - Short term - Oral	Effects: Systemic 2.4 mg/kg bw/day
	DNEL - General population - Long term - Oral	Effects: Systemic 2.4 mg/kg bw/day
	DNEL - General population - Long term - Dermal	Effects: Systemic 2.4 mg/kg bw/day
	DNEL - Workers - Long term - Dermal	Effects: Systemic 4 mg/kg bw/day
	DNEL - General population - Short term - Inhalation	Effects: Local 8 mg/m³
	DNEL - General population - Long term - Inhalation	Effects: Local 8 mg/m³
	DNEL - Workers - Short term - Inhalation	Effects: Local 8 mg/m³
	DNEL - Workers - Long term - Inhalation	Effects: Local 8 mg/m³
	DNEL - General population - Long term - Inhalation	Effects: Systemic 9.3 mg/m³
	DNEL - Workers - Long term - Inhalation	Effects: Systemic 31 mg/m³
	DNEL - General population - Short term - Inhalation	Effects: Systemic 128.5 mg/m³
	DNEL - Workers - Short term - Inhalation	Effects: Systemic 143 mg/m³
	DNEL - Workers - Long term - Inhalation	Effects: Systemic 1.36 mg/m³
Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-benzyl alcohol	DNEL - Workers - Long term - Dermal	Effects: Systemic 2.5 mg/kg bw/day
	DNEL - General population - Long term - Oral	Effects: Systemic 4 mg/kg bw/day
	DNEL - General population - Long term - Dermal	Effects: Systemic 4 mg/kg bw/day
	DNEL - General population - Long term - Inhalation	Effects: Systemic 5.4 mg/m³
	DNEL - Workers - Long term - Dermal	Effects: Systemic 8 mg/kg bw/day
	DNEL - General population - Short term - Oral	Effects: Systemic 20 mg/kg bw/day
	DNEL - General population - Short term - Dermal	Effects: Systemic 20 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation	Effects: Systemic 22 mg/m³
	DNEL - General population - Short term - Inhalation	Effects: Systemic 27 mg/m³
	DNEL - Workers - Short term - Dermal	Effects: Systemic 40 mg/kg bw/day
Formaldehyde, polymer with	DNEL - Workers - Short term - Inhalation	Effects: Systemic 110 mg/m³
	DNEL - Workers - Long term - Inhalation	Effects: Systemic 0.2 mg/m³

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SECTION 8: Exposure controls/personal protection

benzenamine, hydrogenated			
2,4,6-tris (dimethylaminomethyl) phenol	DNEL - Workers - Long term - Dermal DNEL - Workers - Short term - Inhalation DNEL - Workers - Short term - Dermal DNEL - General population - Long term - Oral	<i>Effects: Systemic</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i>	2 mg/kg bw/day 2 mg/m ³ 6 mg/kg bw/day 0.075 mg/kg bw/day
	DNEL - General population - Short term - Dermal DNEL - General population - Long term - Dermal DNEL - General population - Short term - Inhalation DNEL - General population - Long term - Inhalation	<i>Effects: Systemic</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i>	0.075 mg/kg bw/day 0.075 mg/kg bw/day 0.13 mg/m ³ 0.13 mg/m ³
4-nonylphenol, branched	DNEL - Workers - Long term - Dermal DNEL - Workers - Long term - Inhalation DNEL - Workers - Short term - Dermal DNEL - Workers - Short term - Inhalation DNEL - General population - Short term - Oral	<i>Effects: Systemic</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i>	0.15 mg/kg bw/day 0.53 mg/m ³ 0.6 mg/kg bw/day 2.1 mg/m ³ 0.4 mg/kg bw/day
	DNEL - General population - Short term - Inhalation DNEL - General population - Short term - Dermal DNEL - General population - Long term - Oral DNEL - General population - Long term - Inhalation	<i>Effects: Systemic</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i>	0.8 mg/m ³ 7.6 mg/kg bw/day 0.08 mg/kg bw/day 0.4 mg/m ³
3,6-diazaoctanethylenediamin	DNEL - Workers - Long term - Inhalation DNEL - Workers - Short term - Inhalation DNEL - General population - Long term - Dermal DNEL - Workers - Long term - Dermal DNEL - Workers - Short term - Dermal DNEL - Workers - Long term - Dermal DNEL - General population - Long term - Dermal DNEL - General population - Long term - Inhalation	<i>Effects: Systemic</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i>	0.5 mg/m ³ 1 mg/m ³ 3.8 mg/kg bw/day 7.5 mg/kg bw/day 15 mg/kg bw/day 28 µg/cm ² 0.25 mg/kg bw/day 0.29 mg/m ³
	DNEL - General population - Long term - Oral DNEL - General population - Long term - Dermal DNEL - Workers - Long term - Dermal DNEL - General population - Short term - Dermal DNEL - Workers - Long term - Inhalation DNEL - General population - Short term - Dermal DNEL - General population - Short term - Oral DNEL - General population - Short term - Inhalation	<i>Effects: Systemic</i> <i>Effects: Local</i> <i>Effects: Systemic</i> <i>Effects: Local</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i>	0.41 mg/kg bw/day 0.43 mg/cm ² 0.57 mg/kg bw/day 1 mg/cm ² 1 mg/m ³ 8 mg/kg bw/day 20 mg/kg bw/day 1600 mg/m ³
salicylic acid	DNEL - Workers - Short term - Inhalation DNEL - Workers - Long term - Dermal DNEL - General population - Long term - Oral DNEL - General population - Long term - Dermal DNEL - General population - Short term - Oral DNEL - General population - Long term - Inhalation	<i>Effects: Systemic</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i>	5380 mg/m ³ 2.3 mg/kg bw/day 1 mg/kg bw/day 1 mg/kg bw/day 4 mg/kg bw/day 4 mg/m ³
4,4'-methylenebis (cyclohexylamine)	DNEL - Workers - Long term - Inhalation DNEL - Workers - Long term - Inhalation DNEL - Workers - Long term - Dermal	<i>Effects: Local</i> <i>Effects: Systemic</i> <i>Effects: Systemic</i>	5 mg/m ³ 5 mg/m ³ 0.053 mg/kg bw/day
	DNEL - Workers - Long term - Inhalation	<i>Effects: Systemic</i>	0.13 mg/m ³

PNECs

English (GB)

Ireland

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SECTION 8: Exposure controls/personal protection

Product/ingredient name	Compartment Detail - Method	Value
Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-	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

8.2 Exposure controls

Appropriate engineering controls	: Use only with adequate ventilation. 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 vapour (Type A) and particulate filter P3

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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.

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.
Odour : Amine-like. [Strong]
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: 80°C
Auto-ignition temperature :

Ingredient name	°C	°F	Method
4,4'-methylenebis(cyclohexylamine)	300	572	EU A.15

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): <14 mm²/s

Solubility :

Media	Result
cold water	Not soluble

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

Ingredient name	Vapour Pressure at 20°C			Vapour 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 : 1.02

Particle characteristics

Median particle size : Not applicable.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

Explosive properties :

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SECTION 9: Physical and chemical properties

The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.

Oxidising properties : Product does not present an oxidizing hazard.
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** : 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:
oxidising agents, strong alkalis, strong acids.
- 10.6 Hazardous decomposition products** : Depending on conditions, decomposition products may include the following materials:
carbon oxides nitrogen oxides Formaldehyde.

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.

- Harmful if swallowed or if inhaled.
- Causes severe skin burns and eye damage.
- May cause an allergic skin reaction.
- Suspected of causing cancer.
- May cause respiratory irritation.
- May cause damage to organs through prolonged or repeated exposure.

Acute toxicity

Product/ingredient name	Result	Dose / Exposure
Furfuryl alcohol	Rabbit - Dermal - LD50	400 mg/kg
	<i>Toxic effects:</i> Behavioral - Convulsions or effect on seizure threshold	
	Rat - Dermal - LD50	3825 mg/kg
	Rat - Oral - LD50	0.132 g/kg
	Rat - Inhalation - LC50 Vapour	934 mg/m³ [4 hours]
Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-	Rat - Inhalation - LC50 Vapour	233 ppm [4 hours]
	Rat - Oral - LD50	2885 mg/kg
benzyl alcohol	Rat - Dermal - LD50	2980 mg/kg
	Rabbit - Dermal - LD50	>2000 mg/kg
	Rat - Oral - LD50	1200 mg/kg
	Rat - Inhalation - LC50 Dusts and mists	>5 mg/l [4 hours]
Formaldehyde, polymer with benzenamine, hydrogenated 2,4,6-tris(dimethylaminomethyl) phenol	Rat - Oral - LD50	300 mg/kg
	Rat - Dermal - LD50	1280 mg/kg

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SECTION 11: Toxicological information

4-nonylphenol, branched	Rat - Oral - LD50 <i>Toxic effects:</i> Peripheral Nerve and Sensation - Flaccid paralysis without anesthesia (usually neuromuscular blockage) Lung, Thorax, or Respiration - Dyspnea Rabbit - Dermal - LD50	1200 mg/kg
3,6-diazaoctanethylenediamin	Rat - Oral - LD50 <i>Toxic effects:</i> Liver - Other changes Blood - Hemorrhage Gross Metabolite Changes - Weight loss or decreased weight gain Rabbit - Dermal - LD50	2.14 g/kg 1300 mg/kg
salicylic acid	Rat - Oral - LD50	1465 mg/kg
4,4'-methylenebis(cyclohexylamine)	Rat - Oral - LD50 Rabbit - Dermal - LD50	1716 mg/kg 0.891 g/kg 0.625 g/kg 2.11 g/kg

Acute toxicity estimates

Route	ATE value
Oral	1116.99 mg/kg
Dermal	4636.36 mg/kg
Inhalation (vapours)	13.96 mg/l

Conclusion/Summary : Harmful if swallowed or if inhaled.

Irritation/Corrosion

Product/ingredient name	Result
4-nonylphenol, branched	Rabbit - Skin - Erythema/Eschar Irritation score: 4

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
3,6-diazaoctanethylenediamin	Guinea pig - skin OECD 406	Result: Sensitising

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

Suspected of causing cancer.

Reproductive toxicity

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

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
4-nonylphenol, branched	Category 3	-	Respiratory tract irritation
Formaldehyde, polymer with 1,3-dimethylbenzene	Category 3	-	Respiratory tract irritation

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SECTION 11: Toxicological information

Conclusion/Summary :
May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Formfuryl alcohol	Category 2	-	-
Formaldehyde, polymer with benzenamine, hydrogenated	Category 2	oral	kidneys
Fatty acids, tall-oil, reaction products with diethylenetriamine	Category 2	oral	-
4,4'-methylenebis(cyclohexylamine)	Category 2	oral	liver

Conclusion/Summary :
May cause damage to organs through prolonged or repeated exposure.

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

Information on likely routes of exposure : Not available.

- Potential acute health effects
- Inhalation : Harmful if inhaled. May cause respiratory irritation.
 - Ingestion : Harmful if swallowed. Corrosive to the digestive tract. Causes burns.
 - Skin contact : Causes severe burns. Defatting to the skin. 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:
respiratory tract irritation
coughing
 - Ingestion : Adverse symptoms may include the following:
stomach pains
 - Skin contact : Adverse symptoms may include the following:
pain or irritation
redness
dryness
cracking
blistering may occur
 - Eye contact : Adverse symptoms may include the following:
pain
watering
redness

Delayed and immediate effects as well as 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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SECTION 11: Toxicological information

General	: May cause damage to organs through prolonged or repeated exposure. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.
Carcinogenicity	: Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
Mutagenicity	: No known significant effects or critical hazards.
Reproductive toxicity	: No known significant effects or critical hazards.
Other information	: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Contains a substance that may emit formaldehyde if stored beyond its shelf life and/or during cure at curing temperatures greater than 60C/140F. Avoid contact with skin and clothing. Can form nitrosamines in the presence of certain organic materials and if heated.

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)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-Formaldehyde, polymer with benzenamine, hydrogenated	EC50	Algae	15 mg/l [72 hours]
	Acute - LC50	Fish	63 mg/l [96 hours]
	Acute - EC50	Daphnia	15.4 mg/l [48 hours]
	Acute - EC50	Algae	43.94 mg/l [72 hours]
2,4,6-tris(dimethylaminomethyl)phenol	Acute - LC50	Daphnia	>100 mg/l [48 hours]
	Acute - LC50	Fish	>100 mg/l [96 hours]
	Acute - LC50	Fish	0.221 mg/l [96 hours]
	Acute - EC50	Crustaceans - Water flea - <i>Moina macrocopa</i>	0.044 mg/l [48 hours]
4-nonylphenol, branched	Acute - EC50	Algae - Green algae - <i>Raphidocelis subcapitata</i>	0.04 mg/l [72 hours]
	Acute - EC50	Daphnia - Water flea - <i>Daphnia longispina</i> - Neonate	1147.57 mg/l [48 hours]
	Acute - EC50	Daphnia - Water flea - <i>Daphnia magna</i> - Neonate	5.6 mg/l [21 days]
	Acute - EC50		
salicylic acid	Acute - EC50 - Fresh water		
	Chronic - NOEC - Fresh water		

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SECTION 12: Ecological information

Conclusion/Summary : Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose / Inoculum
Formaldehyde, polymer with benzenamine, hydrogenated 2,4,6-tris (dimethylaminomethyl)phenol	- OECD [Ready Biodegradability - Closed Bottle Test]	0% [28 days] - Not readily 4% [28 days] - Not readily	

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-benzyl alcohol	-	-	Not readily
Formaldehyde, polymer with benzenamine, hydrogenated 2,4,6-tris (dimethylaminomethyl)phenol	-	-	Readily
	-	-	Not readily
	-	-	Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
Furfuryl alcohol	0.3	-	Low
benzyl alcohol	0.87	-	Low
Formaldehyde, polymer with benzenamine, hydrogenated 2,4,6-tris(dimethylaminomethyl)phenol	2.68	209 to 219	Low
4-nonylphenol, branched	0.219	-	Low
3,6-diazaoctanethylenediamin	5.4	251.19	Low
salicylic acid	-1.66 to -1.4	-	Low
4,4'-methylenebis(cyclohexylamine)	2.21 to 2.26	-	Low
	2.03	-	Low

12.4 Mobility in soil

Soil/water partition coefficient

Product/ingredient name	logK _{oc}	K _{oc}
Furfuryl alcohol	1.09	12.1871
benzyl alcohol	1.1	12.6442
2,4,6-tris(dimethylaminomethyl)phenol	2.72	525.589
3,6-diazaoctanethylenediamin	1.53	33.6474
salicylic acid	1.58	37.6361
4,4'-methylenebis(cyclohexylamine)	2.16	144.598

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 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 :
[European waste catalogue \(EWC\)](#)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous 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.

Type of packaging	European waste catalogue (EWC)
Container	15 01 06 mixed packaging

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 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	UN3066	UN3066	UN3066	UN3066
14.2 UN proper shipping name	PAINT	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	8	8	8	8
14.4 Packing group	II	II	II	II

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SECTION 14: Transport information

14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	Not applicable.	✔ (Fatty acids, tall-oil, reaction products with diethylenetriamine)	Not applicable.

Additional information

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

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)
✔ AMERLOCK SEALER CURE 4-nonylphenol, branched	3 46

Labelling : Not applicable.

Explosive precursors : Not applicable.

Ozone depleting substances (EU 2024/590)
Not listed.

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SECTION 15: Regulatory information

Seveso Directive
This product is controlled under the Seveso Directive.

Danger criteria

Category
2

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

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

Classification	Justification
Acute Tox. 4, H302	Calculation method
Acute Tox. 4, H332	Calculation method
Skin Corr. 1B, H314	Calculation method
Eye Dam. 1, H318	Calculation method
Skin Sens. 1, H317	Calculation method
Carc. 2, H351	Calculation method
STOT SE 3, H335	Calculation method
STOT RE 2, H373	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

H301	Toxic if swallowed.
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.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated

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SECTION 16: Other information

H400 H410 H411 H412	exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.
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Full text of classifications [CLP/GHS]

Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Carc. 2 Eye Dam. 1 Eye Irrit. 2 Repr. 2 Skin Corr. 1B Skin Corr. 1C Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1B STOT RE 2 STOT SE 3	ACUTE TOXICITY - Category 3 ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 REPRODUCTIVE TOXICITY - Category 2 SKIN CORROSION/IRRITATION - Category 1B SKIN CORROSION/IRRITATION - Category 1C SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SKIN SENSITISATION - Category 1B SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
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Prepared by	: EHS
Version	: 17.01

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