



SAFETY DATA SHEET

Aerodux 185

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

1.1 Product identifier

Product name : Aerodux 185

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

Use of the substance/
mixture : Industrial/Professional Use: Adhesive. Woodworking industry.

1.3 Details of the supplier of the safety data sheet

Supplier : Dynea AS
P.O.Box 160, N-2001 Lillestrøm
Norway
Tel. +47 63897100
Fax. +47 63897610

e-mail address of person
responsible for this SDS : sds@dynea.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : Not available.

Supplier

Telephone number : +47 63897100

Hours of operation : 24 hours

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]

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

Acute Tox. 4, H302
Acute Tox. 4, H332
Skin Corr. 1B, H314
Eye Dam. 1, H318
Skin Sens. 1, H317
Muta. 2, H341
STOT SE 2, H371
STOT RE 2, H373
Aquatic Chronic 3, H412

Classification according to Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

SECTION 2: Hazards identification

| | |
|-----------------------------|--|
| Classification | : Muta. Cat. 3; R68 T; R23/24/25 Xn; R48/20/21/22 C; R34 R43 |
| Human health hazards | : Possible risk of irreversible effects. Toxic by inhalation, in contact with skin and if swallowed. Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. Causes burns. May cause sensitisation by skin contact. |

See Section 16 for the full text of the R phrases or 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 | : H302 + H332 - Harmful if swallowed or if inhaled. H314 - Causes severe skin burns and eye damage. H317 - May cause an allergic skin reaction. H341 - Suspected of causing genetic defects. H371 - May cause damage to organs. H373 - May cause damage to organs through prolonged or repeated exposure. H412 - Harmful to aquatic life with long lasting effects. |
|--------------------------|---|

| | |
|---------------------------------|---|
| Precautionary statements | : P201 - Obtain special instructions before use. P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P273 - Avoid release to the environment. P260 - Do not breathe vapour. P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. P303 + P361 + P353 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or physician. P305 + P310 - IF IN EYES: Immediately call a POISON CENTER or physician. P405 - Store locked up. P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
|---------------------------------|---|

| | |
|------------------------------|---|
| Hazardous ingredients | : Formaldehyde, polymer with 1,3-benzenediol and phenol phenol resorcinol |
|------------------------------|---|

| | |
|------------------------------------|-------------------|
| 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

Not applicable.

2.3 Other hazards

SECTION 2: Hazards identification

Other hazards which do not result in classification : Air contaminants may be formed during use of the product.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Chemical characterisation : Phenol resorcinol formaldehyde resin.

| Product/ingredient name | Identifiers | % | Classification | | Type |
|--|--|-----------|---|---|---------|
| | | | 67/548/EEC | Regulation (EC) No. 1272/2008 [CLP] | |
| Formaldehyde, polymer with 1, 3-benzenediol and phenol | REACH #: Exempted CAS: 25986-71-4 | ≥25 - <50 | R43 | Skin Sens. 1, H317 | [1] |
| phenol | REACH #: 01-2119471329-32 EC: 203-632-7 CAS: 108-95-2 Index: 604-001-00-2 | ≥17 - <25 | Muta. Cat. 3; R68 T; R23/24/25 Xn; R48/20/21/22 C; R34 | Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Muta. 2, H341 STOT RE 2, H373 (kidneys, liver, nervous system and skin) Aquatic Chronic 2, H411 | [1] [2] |
| ethanol | REACH #: 01-2119457610-43 EC: 200-578-6 CAS: 64-17-5 Index: 603-002-00-5 | ≥6 - <10 | F; R11 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 | [1] [2] |
| resorcinol | REACH #: 01-2119480136-40 EC: 203-585-2 CAS: 108-46-3 Index: 604-010-00-1 | ≥3 - <4 | Xn; R22 Xi; R36/38 N; R50 | Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 1, H370 (blood system and central nervous system (CNS)) (oral) STOT SE 2, H371 (respiratory tract) (oral) Aquatic Acute 1, H400 Aquatic Chronic 3, H412 | [1] [2] |
| methanol | REACH #: 01-2119433307-44 EC: 200-659-6 CAS: 67-56-1 Index: 603-001-00-X | ≥1.2 - <2 | F; R11 T; R23/24/25, R39/23/24/25 | Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370 (central nervous system (CNS) and optic nerve) | [1] [2] |
| sodium hydroxide | REACH #: 01-2119457892-27 EC: 215-185-5 CAS: 1310-73-2 Index: 011-002-00-6 | ≥0.5 - <1 | C; R35 | Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 | [1] [2] |

SECTION 3: Composition/information on ingredients

| | | | | | |
|--|--|--|--|---|--|
| | | | See Section 16 for the full text of the R-phrases declared above. | See Section 16 for the full text of the H statements declared above. | |
|--|--|--|--|---|--|

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 or vPvBs 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 meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
 [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
 [5] Substance of equivalent concern

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

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

- Eye contact** : Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
- Inhalation** : Get medical attention immediately. Move exposed person to fresh air. If breathing is difficult, give oxygen. If necessary, call a poison center or physician.
- Skin contact** : Get medical attention immediately. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention if irritation occurs.
- Ingestion** : Get medical attention immediately. Wash out mouth with water. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician.
- General** : Move the victim to a safe area as soon as possible. If unconscious, place in recovery position and seek medical advice. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. Allow the victim to rest in a well-ventilated area.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.

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 give off gas, vapour or dust that is very irritating or corrosive to the respiratory system.
- Skin contact** : Causes severe burns. May cause an allergic skin reaction.
- Ingestion** : Harmful if swallowed. May cause burns to mouth, throat and stomach.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
 pain
 watering
 redness
- Skin contact** : Adverse symptoms may include the following:
 pain or irritation
 redness
 blistering may occur

SECTION 4: First aid measures

Ingestion : Adverse symptoms may include the following:
stomach pains

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

Specific treatments : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use dry chemical, CO₂, water spray (fog) or foam.

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 harmful 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 dioxide
carbon monoxide

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.

6.3 Methods and material for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Absorb with liquid-binding material (sand, diatomite, universal binders etc.) or use a spill kit.

SECTION 6: Accidental release measures

- Large spill** : Approach the release from upwind. Stop leak if without risk. Move containers from spill area. 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. 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** : See Section 8 for information on appropriate personal protective equipment. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. 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.
- 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 in accordance with local regulations. Store away from incompatible materials (see Section 10). Store locked up. Keep away from food, drink and animal feeding stuffs. 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.

Seveso II Directive - Reporting thresholds (in tonnes)**Named substances**

| Name | Notification and MAPP threshold | Safety report threshold |
|----------|---------------------------------|-------------------------|
| Methanol | 500 | 5000 |

Danger criteria

| Category | Notification and MAPP threshold | Safety report threshold |
|----------|---------------------------------|-------------------------|
| 2: Toxic | 50 | 200 |

7.3 Specific end use(s)

- Recommendations** : Not available.
- Industrial sector specific solutions** : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product.

8.1 Control parameters

Occupational exposure limits

| Product/ingredient name | Exposure limit values |
|-------------------------|--|
| phenol | EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. TWA: 2 ppm 8 hours. STEL: 16 mg/m ³ 15 minutes. STEL: 4 ppm 15 minutes. TWA: 7.8 mg/m ³ 8 hours. |
| ethanol | EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 1000 ppm 8 hours. TWA: 1920 mg/m ³ 8 hours. |
| resorcinol | EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 20 ppm 15 minutes. TWA: 10 ppm 8 hours. TWA: 46 mg/m ³ 8 hours. STEL: 92 mg/m ³ 15 minutes. |
| methanol | EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 333 mg/m ³ 15 minutes. STEL: 250 ppm 15 minutes. TWA: 266 mg/m ³ 8 hours. TWA: 200 ppm 8 hours. |
| sodium hydroxide | EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 2 mg/m ³ 15 minutes. |
| formaldehyde | [Air contaminant - Curing] EH40/2005 WELs (United Kingdom (UK), 12/2011). STEL: 2.5 mg/m ³ 15 minutes. STEL: 2 ppm 15 minutes. TWA: 2 ppm 8 hours. TWA: 2.5 mg/m ³ 8 hours. |

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. 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

SECTION 8: Exposure controls/personal protection

| Product/ingredient name | Type | Exposure | Value | Population | Effects | |
|-------------------------|------------------|-----------------------|------------------------|---------------------|-----------|-------|
| phenol | DNEL | Short term Inhalation | 16 mg/m ³ | Workers | Local | |
| | DNEL | Long term Dermal | 1.23 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Long term Inhalation | 8 mg/m ³ | Workers | Systemic | |
| | DNEL | Long term Dermal | 0.4 mg/kg bw/day | Consumers | Systemic | |
| | DNEL | Long term Inhalation | 1.32 mg/m ³ | Consumers | Systemic | |
| | DNEL | Long term Oral | 0.4 mg/kg bw/day | Consumers | Systemic | |
| ethanol | DNEL | Short term Inhalation | 1900 mg/m ³ | Workers | Local | |
| | DNEL | Long term Inhalation | 950 mg/m ³ | Workers | Systemic | |
| | DNEL | Long term Dermal | 343 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Short term Inhalation | 950 mg/m ³ | Consumers | Local | |
| | DNEL | Long term Inhalation | 114 mg/m ³ | Consumers | Systemic | |
| | DNEL | Long term Dermal | 206 mg/kg bw/day | Consumers | Systemic | |
| resorcinol | DNEL | Long term Oral | 87 mg/kg bw/day | Consumers | Systemic | |
| | DNEL | Long term Dermal | 40 mg/kg bw/day | Workers | Systemic | |
| methanol | DNEL | Long term Inhalation | 5.6 mg/m ³ | Workers | Systemic | |
| | DNEL | Short term Dermal | 40 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Short term Inhalation | 260 mg/m ³ | Workers | Systemic | |
| | DNEL | Short term Inhalation | 260 mg/m ³ | Workers | Local | |
| | DNEL | Long term Dermal | 40 mg/kg bw/day | Workers | Systemic | |
| | DNEL | Long term Inhalation | 260 mg/m ³ | Workers | Systemic | |
| | DNEL | Long term Inhalation | 260 mg/m ³ | Workers | Local | |
| | DNEL | Short term Dermal | 8 mg/kg bw/day | Consumers | Systemic | |
| | DNEL | Short term Inhalation | 50 mg/m ³ | Consumers | Systemic | |
| | DNEL | Short term Oral | 8 mg/kg bw/day | Consumers | Systemic | |
| | DNEL | Short term Inhalation | 50 mg/m ³ | Consumers | Local | |
| | DNEL | Long term Dermal | 8 mg/kg bw/day | Consumers | Systemic | |
| | DNEL | Long term Inhalation | 50 mg/m ³ | Consumers | Systemic | |
| | DNEL | Long term Oral | 8 mg/kg bw/day | Consumers | Systemic | |
| | DNEL | Long term Inhalation | 50 mg/m ³ | Consumers | Local | |
| | sodium hydroxide | DNEL | Long term Inhalation | 1 mg/m ³ | Workers | Local |
| | | DNEL | Short term Dermal | 20000 ppm | Workers | Local |
| | | DNEL | Long term Inhalation | 1 mg/m ³ | Consumers | Local |
| | | DNEL | Short term Dermal | 20000 ppm | Consumers | Local |

SECTION 8: Exposure controls/personal protection**PNECs**

| Product/ingredient name | Type | Compartment Detail | Value | Method Detail |
|-------------------------|------|------------------------|-------------------|--------------------------|
| phenol | PNEC | Fresh water | 0.0077 mg/l | Assessment Factors |
| | PNEC | Marine | 0.00077 mg/l | Assessment Factors |
| | PNEC | Intermittent release | 0.031 mg/l | Assessment Factors |
| | PNEC | Fresh water sediment | 0.0915 mg/kg dwt | Equilibrium Partitioning |
| | PNEC | Marine water sediment | 0.00915 mg/kg dwt | - |
| | PNEC | Soil | 0.136 mg/kg dwt | Assessment Factors |
| ethanol | PNEC | Sewage Treatment Plant | 2.1 mg/l | Assessment Factors |
| | PNEC | Fresh water | 0.96 mg/l | - |
| | PNEC | Marine | 0.79 mg/l | - |
| resorcinol | PNEC | Sewage Treatment Plant | 580 mg/l | - |
| | PNEC | Fresh water sediment | 3.6 mg/kg dwt | - |
| | PNEC | Marine water sediment | 2.9 mg/kg dwt | - |
| | PNEC | Soil | 0.63 mg/kg dwt | - |
| | PNEC | Fresh water | 0.0172 mg/l | - |
| | PNEC | Marine | 0.00172 mg/l | - |
| methanol | PNEC | Fresh water sediment | 0.109 mg/kg dwt | - |
| | PNEC | Marine water sediment | 0.0109 mg/kg dwt | - |
| | PNEC | Soil | 10 mg/kg dwt | - |
| | PNEC | Fresh water | 154 mg/l | Assessment Factors |
| | PNEC | Marine | 15.4 mg/l | Assessment Factors |
| | PNEC | Intermittent release | 1540 mg/l | Assessment Factors |
| | PNEC | Sediment | 570.4 mg/kg dwt | Equilibrium Partitioning |
| | PNEC | Soil | 23.5 mg/kg ww | Equilibrium Partitioning |
| | PNEC | Sewage Treatment Plant | 100 mg/l | Assessment Factors |

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. Immediately remove any contaminated clothing, shoes or socks. 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 : Use eye protection according to EN 166, designed to protect against liquid splashes. Recommended: Tightly-fitting goggles

Hand protection : Wear suitable gloves tested to EN374. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers.
Recommended : Protective Index 6 / Breakthrough time >480 minutes: neoprene rubber 0.7 mm thickness or butyl rubber 0.7 mm thickness

Other skin protection : Wear work clothing with long sleeves.
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.
Long Term Exposure / high concentrations : Self-contained respirator (DIN EN 133) or full face mask (DIN EN 136)
Short term exposure / Low exposure : Half-face mask (DIN EN 140)

SECTION 8: Exposure controls/personal protection

Recommended: Type A (Brown): organic gases and vapours with a boiling point higher than 65°C. Type B (grey): Inorganic gases and vapours.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

| | |
|---|---|
| Physical state | : Liquid. |
| Colour | : Brownish-red. [Light] |
| Odour | : Phenolic. [Slight] |
| Odour threshold | : Not available. |
| pH | : 6 to 8.5 |
| Melting point/freezing point | : Not available. |
| Initial boiling point and boiling range | : Not available. |
| Flash point | : Closed cup: 37°C [Pensky-Martens.] [Product does not sustain combustion.] |
| Evaporation rate | : Not available. |
| Flammability (solid, gas) | : Not available. |
| Burning time | : Not applicable. |
| Burning rate | : Not applicable. |
| Upper/lower flammability or explosive limits | : Not available. |
| Vapour pressure | : Not available. |
| Vapour density | : Not available. |
| Relative density | : Not available. |
| Density (liquid) | : 1.135 to 1.16 g/cm ³ [25°C] |
| Solubility | : Soluble in water |
| Partition coefficient: n-octanol/water | : 1.8 |
| Auto-ignition temperature | : Not available. |
| Decomposition temperature | : Not available. |
| Viscosity | : Dynamic: 260 to 445 mPa·s [25 °C] |
| Explosive properties | : Not available. |
| Oxidising properties | : Not available. |

9.2 Other information

VOC content (Without volume exclusion) : 28.8 % (w/w)
30.5 g/l

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.

SECTION 10: Stability and reactivity

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

10.6 Hazardous decomposition products : Formaldehyde and phenol may be released during processing.

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Toxicity data****Acute toxicity**

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|------------------------|-----------------------|-----------------------|----------|
| Aerodux 185 phenol | LD50 Oral | Rat | 2048 mg/kg | - |
| | LC0 Inhalation Vapour | Rat - Female | 900 mg/m ³ | 8 hours |
| | LD50 Dermal | Rat - Female | 660 mg/kg | - |
| | LD50 Oral | Rat - Male, Female | 340 mg/kg | - |
| ethanol | LDLo Oral | Human | 140 mg/kg | - |
| | LC50 Inhalation Vapour | Rat - Male, Female | 124.7 mg/l | 4 hours |
| resorcinol | LD50 Oral | Rat - Male, Female | 10470 mg/kg | - |
| | LD50 Dermal | Rabbit | 3.36 g/kg | - |
| methanol | LD50 Oral | Rat | 301 mg/kg | - |
| | LDLo Oral | Human | 29 mg/kg | - |
| | LC50 Inhalation Vapour | Rat - Male, Female | 128.2 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 17100 mg/kg | - |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|------------------------------------|---------|-------|-------------------------|-------------|
| phenol | Skin - Erythema/Eschar | Rabbit | 4 | 24 hours 0.5g | 72 hours |
| ethanol | Eyes - Severe irritant | Rabbit | - | 100mg | 14 days |
| | Skin - Erythema/Eschar | Rabbit | 0 | 60 hours 0.2ml | 24 hours |
| resorcinol | Eyes - Redness of the conjunctivae | Rabbit | 2.1 | 1 minutes 0.1ml | 21 days |
| | Eyes - Severe irritant | Rabbit | - | 100 milligrams | - |
| methanol | Skin - Moderate irritant | Rabbit | - | - | - |
| | Skin - Oedema | Rabbit | 0 | - | 72 hours |
| | Eyes - Cornea opacity | Rabbit | 1 | 24 hours | - |
| | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 milligrams | - |
| sodium hydroxide | Eyes - Moderate irritant | Rabbit | - | 40 milligrams | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 20 milligrams | - |
| | Eyes - Oedema of the conjunctivae | Rabbit | >2.5 | 0.1ml (2%) | 72 hours |
| | Eyes - Cornea opacity | Rabbit | >2 | 0.1ml (2%) | 72 hours |

Conclusion/Summary

Skin : **phenol**: Corrosive to the skin.
ethanol: Non-irritating to the skin.
resorcinol: Irritating to skin.
methanol: Non-irritating to the skin.

SECTION 11: Toxicological information

- Eyes** : **phenol**: Corrosive to eyes.
ethanol: Irritating to eyes.
resorcinol: Irritating to eyes.
methanol: Non-irritating to the eyes.
sodium hydroxide: Risk of serious damage to eyes.
- Respiratory** : **methanol**: No specific data.

Sensitisation

| Product/ingredient name | Route of exposure | Species | Result |
|-------------------------|-------------------|------------|-----------------|
| phenol | skin | Mouse | Not sensitizing |
| | skin | Guinea pig | Not sensitizing |
| resorcinol | skin | Human | Sensitising |
| methanol | Respiratory | Guinea pig | Not sensitizing |
| | skin | Guinea pig | Not sensitizing |
| sodium hydroxide | skin | Human | Not sensitizing |

Conclusion/Summary

- Skin** : **Formaldehyde, polymer with 1,3-benzenediol and phenol**: May cause sensitisation by skin contact.
phenol: Not sensitizing
resorcinol: Sensitising
methanol: Not sensitizing
sodium hydroxide: Not sensitizing
- Respiratory** : **phenol**: Not sensitizing
resorcinol: Not determined
methanol: Not sensitizing

Chronic toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|--|---|--|---|
| phenol | Sub-chronic NOAEL Oral Sub-acute NOAEL Dermal | Rat - Male Rabbit | 300 mg/kg 130 mg/kg | 13 weeks 18 days; 5 hours per day |
| ethanol | Sub-chronic NOAEL Oral Sub-chronic LOAEL Oral | Rat - Male, Female Rat - Male, Female | 1.28 mg/kg 3.16 mg/kg | 14 weeks; 7 days per week 14 weeks; 7 days per week |
| methanol | Chronic NOAEL Oral Chronic NOEC Inhalation Vapour Chronic NOAEC Inhalation Vapour Chronic NOAEC Inhalation Vapour | Rat - Male, Female Rat - Male, Female Rat | 466 to 529 mg/kg Repeated dose 0.13 mg/l 1.3 mg/l 1.33 mg/l Continuous | 104 weeks 12 months 108 days 17 days; 22.7 hours per day |

Mutagenicity

| Product/ingredient name | Test | Experiment | Result |
|-------------------------|---|---|----------|
| phenol | OECD 487 In vitro Micronucleus Test | Experiment: In vitro Subject: Mammalian-Animal Cell: Somatic Metabolic activation: Yes | Positive |
| | OECD 473 In vitro Mammalian Chromosomal Aberration Test | Experiment: In vitro Subject: Mammalian-Animal | Positive |

SECTION 11: Toxicological information

| | | | |
|----------|--|--|-----------|
| ethanol | OECD 471 Bacterial Reverse Mutation Test | Cell: Somatic Metabolic activation: Yes Experiment: In vitro | Negative |
| | OECD 476 In vitro Mammalian Cell Gene Mutation Test | Subject: Bacteria Metabolic activation: + & - Experiment: In vitro | Negative |
| | OECD 478 Genetic Toxicology: Rodent Dominant Lethal Test | Subject: Mammalian-Animal Metabolic activation: + & - Experiment: In vivo | Equivocal |
| methanol | DNA damage and repair assay | Subject: Mammalian-Animal Metabolic activation: + & - Experiment: In vitro | Positive |
| | OECD 471 | Subject: Bacteria Experiment: In vitro | Negative |
| | OECD 476 | Subject: Bacteria Experiment: In vitro | Negative |
| | OECD 474 | Subject: Mammalian-Animal Experiment: In vivo Subject: Mammalian-Animal | Negative |

Carcinogenicity

Conclusion/Summary

- : **phenol**: Phenol is not considered to be carcinogen in experimental animals after repeated oral exposure. There is evidence for promoting activity of phenol after repeated dermal application at concentrations inducing severe local effects due to the corrosive properties. There is no evidence for carcinogenicity in epidemiology.
- resorcinol**: No carcinogenic effect.
- methanol**: Methanol was investigated for chronic toxicity and carcinogenicity in two long-term body inhalation studies. There was no evidence of a carcinogenic potential in rats and mice exposed to air concentrations up to 1.3 mg/L.

In studies with oral administration in rats and mice the number of tumor-bearing animals in the rat study showed a clear dose-related trend. The effective dose levels were far above human occupational exposure levels and are already associated with other forms of toxicity in humans.

Reproductive toxicity

Conclusion/Summary

- : **phenol**: In a long-term drinking water study in rats and mice mammary gland, no effects on reproductive organs were detected.
- resorcinol**: No known significant effects or critical hazards.
- methanol**: Conclusive, but not sufficient for classification.

Teratogenicity

Conclusion/Summary

- : **phenol**: Oral exposure to phenol resulted in growth retardation of the offspring and impaired postnatal viability and growth. However, these effects were found in dose levels that were also toxic to the dams. Therefore, phenol is not considered to have specific embryo- or fetotoxic effects.
- methanol**: Conclusive, but not sufficient for classification.

Specific target organ toxicity (single exposure)

SECTION 11: Toxicological information

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|---|
| resorcinol | Category 1 | Oral | blood system and central nervous system (CNS) |
| | Category 2 | Oral | respiratory tract |
| methanol | Category 1 | All | central nervous system (CNS) and optic nerve |

Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|---|
| phenol | Category 2 | Not determined | kidneys, liver, nervous system and skin |

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

11.2 Mixture / Product-specific information**Numerical measures of toxicity****Acute toxicity estimates**

| Route | ATE value |
|----------------------|--------------|
| Oral | 434.8 mg/kg |
| Dermal | 2773.1 mg/kg |
| Inhalation (vapours) | 13.64 mg/l |

Potential acute health effects

- Inhalation** : Harmful if inhaled. May give off gas, vapour or dust that is very irritating or corrosive to the respiratory system.
- Ingestion** : Harmful if swallowed. May cause burns to mouth, throat and stomach.
- Skin contact** : Causes severe burns. May cause an allergic skin reaction.
- Eye contact** : Causes serious eye damage.

Potential chronic health effects

- General** : May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. Exposure to component solvent vapour concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin.
- Mutagenicity** : Suspected of causing genetic defects.

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

Short term exposure No known significant effects or critical hazards.

Long term exposure No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

- Ingestion** : Adverse symptoms may include the following:
stomach pains

SECTION 11: Toxicological information

- Skin contact** : Adverse symptoms may include the following:
 pain or irritation
 redness
 blistering may occur
- Eye contact** : Adverse symptoms may include the following:
 pain
 watering
 redness

Other information : Not available.

SECTION 12: Ecological information**12.1 Toxicity**

| Product/ingredient name | Result | Species | Exposure |
|-------------------------|---|--|--------------------------|
| Aerodux 185 phenol | Acute EC50 48 mg/l Marine water | Algae - Skeletonema | 72 hours |
| | Acute EC50 76 mg/l Static Marine water | Algae - Entomoneis cf punctulata | 72 hours Static |
| | Acute EC50 61.1 mg/l Static Fresh water | Algae - Pseudokirchnerella subcapitata | 96 hours Static |
| | Acute EC50 3.1 mg/l Static Fresh water | Daphnia - Ceriodaphnia dubia - Neonate | 48 hours Static |
| | Acute IC50 21 mg/l Static Fresh water | Micro-organism - Nitrosomonas sp. | 24 hours Static |
| | Acute LC50 8.9 mg/l Flow through Fresh water | Fish - Oncorhynchus Mykiss | 96 hours Flow through |
| | Chronic EC10 0.46 mg/l Semi-static Fresh water | Daphnia - Daphnia magna | 16 days Semi-static |
| ethanol | Chronic NOEC 0.077 mg/l Semi-static Fresh water | Fish - Cirrhina mrigala | 60 days Semi-static |
| | EC50 675 mg/l Fresh water | Algae - Chlorella vulgaris | 4 days Static |
| | EC50 4432 mg/l Fresh water | Aquatic plants - Lemna gibba | 7 days Static |
| | Acute LC50 5012 mg/l Fresh water | Daphnia - Ceriodaphnia dubia | 48 hours Static |
| | Acute LC50 14200 mg/l Fresh water | Fish - Pimephales promelas | 96 hours Flow through |
| | Acute LC50 15300 mg/l Fresh water | Fish - Pimephales promelas | 96 hours Flow through |
| | Chronic LC50 1806 mg/l Fresh water | Daphnia - Ceriodaphnia dubia | 10 days Semi-static |
| | Chronic LC50 454 mg/l Fresh water | Daphnia - Daphnia magna | 9 days Semi-static |
| | Chronic NOEC 9.6 mg/l Fresh water | Daphnia - Daphnia magna | 9 days Semi-static |
| | resorcinol | Acute EC0 60 mg/l Fresh water | Algae - Scenedesmus |
| Acute EC0 0.8 mg/l | | Daphnia | - |
| Acute EC0 <1000 mg/l | | Micro-organism - E-Coli | - |
| Acute LC50 42 mg/l | | Crustaceans - Grass Shrimp | 96 hours |
| methanol | Acute LC50 53 mg/l Fresh water | Fish - Pimephales Promelas | 96 hours |
| | EC50 22000 mg/l Fresh water | Algae - Selenastrum capricornutum | 96 hours Static |

SECTION 12: Ecological information

| | | | |
|------------------|------------------------------------|-----------------------------------|--------------------------|
| | IC50 8800 mg/l Fresh water | Micro-organism - Nitrosomonas sp. | 24 hours Static |
| | Acute EC50 >10000 mg/l Fresh water | Daphnia - Daphnia magna | 48 hours Static |
| | Acute LC50 15400 mg/l Fresh water | Fish - Lepomis macrochirus | 96 hours Flow through |
| | Chronic NOEC 7900 mg/l Fresh water | Fish - Oryzias latipes | 200 hours Static |
| sodium hydroxide | Acute EC50 40.4 mg/l | Daphnia - Ceriodaphnia sp. | 48 hours |

Conclusion/Summary : **phenol**: Toxic to aquatic organisms.
methanol: No known significant effects or critical hazards.

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|-------------------------|-----------------|-------------------------------|----------------------------|-----------------------------|
| Aerodux 185 phenol | OECD 306 | 28 % - Inherent - 28 days | - | - |
| | - | 86 to 96 % - 20 days | 3 to 10 mg/l | Fresh water Marine water |
| resorcinol methanol | - | 80.1 % - 50 days | 20 to 50 mg/l | Activated sludge |
| | OECD 301C | 62 % - Readily - 4.16 days | 100 mg/l | Activated sludge |
| | - | 89 % - 2 days | 446 mg/l | - |
| | - | 83 to 91 % - Readily - 3 days | - | Fresh water Sediment |
| | - | 71 to 83 % - Readily - 5 days | BOD/ThOD | Sewage |
| | - | 69 to 97 % - 5 days | O ₂ Consumption | Marine water |
| - | 53.4 % - 5 days | - | - | - |
| - | 46.3 % - 5 days | - | - | - |

Conclusion/Summary : **phenol**: Readily biodegradable
methanol: Readily biodegradable

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|--|------------------|------------------|
| Aerodux 185 phenol | - | - | Inherent |
| | Estuarine water 7 days, 24°C | - | Readily |
| | Estuarine water 73 days, 10°C | | |
| resorcinol methanol | Estuarine water 15 days, 10 to 24°C | - | Readily |
| | - | 50%; 17.2 day(s) | Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|-------------------------|--------------------|------|-----------|
| Aerodux 185 phenol | 1.8 | - | low |
| | 1.47 | 17.5 | low |
| ethanol | -0.35 | - | low |
| resorcinol | 0.8 | 3.16 | low |
| methanol | -0.77 | <10 | low |

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

SECTION 12: Ecological information

PBT : Not applicable.

vPvB : Not applicable.

12.6 Other adverse effects : No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods**Product**

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

Hazardous waste : Yes.
Cured resin is regarded as non-hazardous waste.

European waste catalogue (EWC)





| Waste code | Waste designation |
|------------|--|
| 08 04 09* | waste adhesives and sealants containing organic solvents or other dangerous substances |

Packaging

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

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 | <input checked="" type="checkbox"/> N1760 | <input checked="" type="checkbox"/> N1760 | <input checked="" type="checkbox"/> N1760 | <input checked="" type="checkbox"/> N1760 |
| 14.2 UN proper shipping name | <input checked="" type="checkbox"/> CORROSIVE LIQUID, N.O.S. (phenol, sodium hydroxide) | <input checked="" type="checkbox"/> CORROSIVE LIQUID, N.O.S. (phenol, sodium hydroxide) | <input checked="" type="checkbox"/> CORROSIVE LIQUID, N.O.S. (phenol, sodium hydroxide) | <input checked="" type="checkbox"/> Corrosive liquid, n.o.s. (phenol, sodium hydroxide) |
| 14.3 Transport hazard class(es) | <input checked="" type="checkbox"/>  | <input checked="" type="checkbox"/>  | <input checked="" type="checkbox"/>  | <input checked="" type="checkbox"/>  |
| 14.4 Packing group | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| 14.5 Environmental hazards | No. | <input checked="" type="checkbox"/> Yes. | No. | No. |
| | | | | |

SECTION 14: Transport information

| | | | | |
|-------------------------------|--|--|--|---|
| Additional information | <u>Hazard identification number</u> 80 <u>Limited quantity</u> 1 L <u>Special provisions</u> 274 <u>Tunnel code</u> (E) | <input checked="" type="checkbox"/> The product is only regulated as an environmentally hazardous substance when transported in tank vessels. <u>Special provisions</u> 274 | <u>Emergency schedules (EmS)</u> F-A, S-B <u>Special provisions</u> 274 | <u>Passenger and Cargo Aircraft</u> Quantity limitation: 1 L Packaging instructions: 851 <u>Cargo Aircraft Only</u> Quantity limitation: 30 L Packaging instructions: 855 <u>Limited Quantities - Passenger Aircraft</u> Quantity limitation: 0.5 L Packaging instructions: Y840 <u>Special provisions</u> A3, A803 |
|-------------------------------|--|--|--|---|

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 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

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

Other EU regulations

Europe inventory : All components are listed or exempted.

Black List Chemicals : Not listed

Priority List Chemicals : Not listed

Integrated pollution prevention and control list (IPPC) - Air : Not listed

Integrated pollution prevention and control list (IPPC) - Water : Not listed

SECTION 15: Regulatory information

| Product/ingredient name | Carcinogenic effects | Mutagenic effects | Developmental effects | Fertility effects |
|-------------------------|----------------------|-------------------|-----------------------|-------------------|
| phenol | - | Muta. 2, H341 | - | - |

Seveso II Directive

This product is controlled under the Seveso II Directive.

Named substances

| Name |
|----------|
| methanol |

Danger criteria

| Category |
|----------|
| 2: Toxic |

National regulations**Chemical Weapon Convention List Schedules I, II & III Chemicals**

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

15.2 Chemical Safety Assessment

: This product contains substances for which Chemical Safety Assessments are still required.

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

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 |
| Muta. 2, H341 | Calculation method |
| STOT SE 2, H371 | Calculation method |
| STOT RE 2, H373 | Calculation method |
| Aquatic Chronic 3, H412 | Calculation method |

SECTION 16: Other information

| | | |
|---|---|--|
| Full text of abbreviated H statements | <p>H225 H290 H301 H301 (oral) H302 H311 H311 (dermal) H314 H315 H317 H318 H319 H331 H331 (inhalation) H332 H341 H370 (blood system and central nervous system (CNS)) H370 (central nervous system (CNS) and optic nerve) H371 H371 (respiratory tract) H373 H373 (kidneys, liver, nervous system and skin) H400 H411 H412</p> | <p>Highly flammable liquid and vapour. May be corrosive to metals. Toxic if swallowed. Toxic if swallowed. Harmful if swallowed. Toxic in contact with skin. Toxic in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. Toxic if inhaled. Toxic if inhaled. Harmful if inhaled. Suspected of causing genetic defects. Causes damage to organs if swallowed. (blood system and central nervous system (CNS)) Causes damage to organs. (central nervous system (CNS) and optic nerve) May cause damage to organs. May cause damage to organs if swallowed. (respiratory tract) May cause damage to organs through prolonged or repeated exposure. May cause damage to organs through prolonged or repeated exposure. (kidneys, liver, nervous system and skin) Very toxic to aquatic life. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.</p> |
| Full text of classifications [CLP/GHS] | <p>Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 Acute Tox. 4, H302 Acute Tox. 4, H332 Aquatic Acute 1, H400 Aquatic Chronic 2, H411 Aquatic Chronic 3, H412 Eye Dam. 1, H318 Eye Irrit. 2, H319 Flam. Liq. 2, H225 Met. Corr. 1, H290 Muta. 2, H341 Skin Corr. 1A, H314 Skin Corr. 1B, H314 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT RE 2, H373 STOT RE 2, H373 (kidneys, liver, nervous system and skin) STOT SE 1, H370 (blood system and central nervous system (CNS)) (oral) STOT SE 1, H370 (central nervous system (CNS) and optic nerve)</p> | <p>ACUTE TOXICITY (oral) - Category 3 ACUTE TOXICITY (dermal) - Category 3 ACUTE TOXICITY (inhalation) - Category 3 ACUTE TOXICITY (oral) - Category 4 ACUTE TOXICITY (inhalation) - Category 4 ACUTE AQUATIC HAZARD - Category 1 LONG-TERM AQUATIC HAZARD - Category 2 LONG-TERM AQUATIC HAZARD - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 CORROSIVE TO METALS - Category 1 GERM CELL MUTAGENICITY - Category 2 SKIN CORROSION/IRRITATION - Category 1A SKIN CORROSION/IRRITATION - Category 1B SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (kidneys, liver, nervous system and skin) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (blood system and central nervous system (CNS)) (oral) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (central nervous system (CNS) and optic nerve) - Category 1</p> |

SECTION 16: Other information

| | |
|---|--|
| STOT SE 2, H371 | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) - Category 2 |
| STOT SE 2, H371 (respiratory tract) (oral) | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (respiratory tract) (oral) - Category 2 |

| | |
|---|---|
| Full text of abbreviated R phrases | : R11- Highly flammable. R68- Possible risk of irreversible effects. R23/24/25- Toxic by inhalation, in contact with skin and if swallowed. R39/23/24/25- Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed. R22- Harmful if swallowed. R48/20/21/22- Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. R34- Causes burns. R35- Causes severe burns. R36/38- Irritating to eyes and skin. R43- May cause sensitisation by skin contact. R50- Very toxic to aquatic organisms. |
| Full text of classifications [DSD/DPD] | : F - Highly flammable Muta. Cat. 3 - Mutagen category 3 T - Toxic C - Corrosive Xn - Harmful Xi - Irritant N - Dangerous for the environment |
| Date of issue/ Date of revision | : 22.05.2015. |
| Date of previous issue | : 20.11.2012. |
| Previous product name | : Not available. |
| Version | : 5 |