

# SAFETY DATA SHEET



EPINOX 74-01 - All variants

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

### 1.1 Product identifier

**Product name** : EPINOX 74-01 - All variants

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

**Product use** : Paint.

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

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

**e-mail address of person responsible for this SDS** : Prod-safe@teknos.com

#### National contact

Teknos Group Oy, Takkatie 3, FI-00370 HELSINKI, FINLAND. Tel. +358 9 506 091.

### 1.4 Emergency telephone number

#### National advisory body/Poison Centre

**Telephone number** : In an emergency, call 112

## 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]

Fam. Liq. 2, H225

Skin Irrit. 2, H315

Eye Irrit. 2, H319

Skin Sens. 1, H317

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** : H225 - Highly flammable liquid and vapour.  
H315 - Causes skin irritation.  
H317 - May cause an allergic skin reaction.  
H319 - Causes serious eye irritation.

#### Precautionary statements

**Prevention** : P280 - Wear protective gloves. Wear eye or face protection.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 - Avoid breathing vapour.  
P264 - Wash thoroughly after handling.

**Response** : P362 + P364 - Take off contaminated clothing and wash it before reuse.

## SECTION 2: Hazards identification

|   |   |
|---|---|
| <b>Storage</b>  | : Not applicable.   |
| <b>Disposal</b>   | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.  |
| <b>Hazardous ingredients</b>  | : Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane N,N'-ethane-1,2-diylbis(12-hydroxyoctadecan-1-amide) |
| <b>Supplemental label elements</b>  | :   |
| <b>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</b> | :   |

### 2.3 Other hazards

|  |   |
|--|---|
| <b>Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII</b> | : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. |
| <b>Other hazards which do not result in classification</b>   | : None known.   |

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures : Mixture

| Product/ingredient name  | Identifiers  | %         | Classification   | Specific Conc. Limits, M-factors and ATEs                                   | Type    |
|--|--|-----------|--|---|---------|
| Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane | CAS: 25036-25-3  | ≥10 - ≤25 | Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317  | -   | [1]     |
| n-Butyl acetate  | REACH #:<br>01-2119485493-29<br>EC: 204-658-1<br>CAS: 123-86-4<br>Index: 607-025-00-1  | ≥10 - ≤18 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>EUH066  | -   | [1] [2] |
| Xylene   | REACH #:<br>01-2119488216-32<br>EC: 215-535-7<br>CAS: 1330-20-7<br>Index: 601-022-00-9 | <10       | Flam. Liq. 3, H226<br>Acute Tox. 4, H312<br>Acute Tox. 4, H332<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>STOT SE 3, H335<br>STOT RE 2, H373<br>(oral, inhalation)<br>Asp. Tox. 1, H304 | ATE [Dermal] =<br>1100 mg/kg<br>ATE [Inhalation<br>(vapours)] = 11 mg/<br>l | [1] [2] |
| Ethylbenzene   | REACH #:<br>01-2119489370-35<br>EC: 202-849-4<br>CAS: 100-41-4<br>Index: 601-023-00-4  | ≤3        | Flam. Liq. 2, H225<br>Acute Tox. 4, H332<br>STOT RE 2, H373<br>(hearing organs) (oral,<br>inhalation)<br>Asp. Tox. 1, H304   | ATE [Inhalation<br>(vapours)] = 11 mg/<br>l                                 | [1] [2] |
| Naphtha (petroleum), hydrotreated heavy  | REACH #:<br>01-2119457273-39<br>EC: 265-150-3  | ≤3        | Asp. Tox. 1, H304  | -   | [1]     |

## SECTION 3: Composition/information on ingredients

|   |  |      |   |   |     |
|---|--|------|---|---|-----|
| Solvent naphtha (petroleum), light aromatic           | CAS: 64742-48-9<br>REACH #:<br>01-2119455851-35<br>EC: 265-199-0<br>CAS: 64742-95-6<br>Index: 649-356-00-4 | ≤1.5 | Flam. Liq. 3, H226<br>STOT SE 3, H335<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Chronic 2, H411<br>EUH066                | - | [1] |
| N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide) | REACH #:<br>01-2119978265-26<br>EC: 204-613-6<br>CAS: 123-26-2   | ≤0.3 | Skin Sens. 1B, H317<br>Aquatic Chronic 3, H412<br><br><b>See Section 16 for the full text of the H statements declared above.</b> | - | [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

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

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : 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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. 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. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

#### Over-exposure signs/symptoms

## SECTION 4: First aid measures

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : No specific data.
- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness
- Ingestion** : No specific data.

### 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, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

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

- Hazards from the substance or mixture** : Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.
- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
metal oxide/oxides

### 5.3 Advice for firefighters

- Special protective actions 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
- 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing 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).

## SECTION 6: Accidental release measures

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

- Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
- Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. 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 in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Separate from oxidising materials. 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 Directive - Reporting thresholds

##### Danger criteria

| Category | Notification and MAPP threshold | Safety report threshold |
|----------|---------------------------------|-------------------------|
| P5c      | 5000 tonne                      | 50000 tonne             |

### 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. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

### 8.1 Control parameters

#### Occupational exposure limits

| Product/ingredient name | Exposure limit values   |
|-------------------------|---|
| n-Butyl acetate         | <b>EU OEL (Europe, 10/2019). Notes: list of indicative occupational exposure limit values</b><br>STEL: 150 ppm 15 minutes.<br>STEL: 723 mg/m <sup>3</sup> 15 minutes.<br>TWA: 241 mg/m <sup>3</sup> 8 hours.<br>TWA: 50 ppm 8 hours.  |
| Xylene                  | <b>EU OEL (Europe, 10/2019). [xylene, mixed isomers] Absorbed through skin. Notes: list of indicative occupational exposure limit values</b><br>TWA: 50 ppm 8 hours.<br>TWA: 221 mg/m <sup>3</sup> 8 hours.<br>STEL: 100 ppm 15 minutes.<br>STEL: 442 mg/m <sup>3</sup> 15 minutes. |
| Ethylbenzene            | <b>EU OEL (Europe, 10/2019). Absorbed through skin. Notes: list of indicative occupational exposure limit values</b><br>TWA: 100 ppm 8 hours.<br>TWA: 442 mg/m <sup>3</sup> 8 hours.<br>STEL: 200 ppm 15 minutes.<br>STEL: 884 mg/m <sup>3</sup> 15 minutes.                        |

**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

| Product/ingredient name | Type | Exposure              | Value                  | Population         | Effects  |
|-------------------------|------|-----------------------|------------------------|--------------------|----------|
| n-Butyl acetate         | DNEL | Long term Dermal      | 3.4 mg/kg bw/day       | General population | Systemic |
|                         | DNEL | Long term Dermal      | 7 mg/kg bw/day         | Workers            | Systemic |
|                         | DNEL | Long term Inhalation  | 12 mg/m <sup>3</sup>   | General population | Systemic |
|                         | DNEL | Long term Inhalation  | 48 mg/m <sup>3</sup>   | Workers            | Systemic |
|                         | DNEL | Short term Oral       | 2 mg/kg bw/day         | General population | Systemic |
|                         | DNEL | Long term Oral        | 2 mg/kg bw/day         | General population | Systemic |
|                         | DNEL | Short term Dermal     | 6 mg/kg bw/day         | General population | Systemic |
|                         | DNEL | Short term Dermal     | 11 mg/kg bw/day        | Workers            | Systemic |
|                         | DNEL | Long term Inhalation  | 35.7 mg/m <sup>3</sup> | General population | Local    |
|                         | DNEL | Short term Inhalation | 300 mg/m <sup>3</sup>  | General population | Local    |
|                         | DNEL | Short term Inhalation | 300 mg/m <sup>3</sup>  | General            | Systemic |



## SECTION 8: Exposure controls/personal protection

|   |                                    |                              |                              |                        |                       |          |
|---|------------------------------------|------------------------------|------------------------------|------------------------|-----------------------|----------|
| Xylene                                  | DNEL                               | Inhalation<br>Long term      | 300 mg/m <sup>3</sup>        | population<br>Workers  | Local                 |          |
|   | DNEL                               | Inhalation<br>Short term     | 600 mg/m <sup>3</sup>        | Workers                | Local                 |          |
|   | DNEL                               | Inhalation<br>Short term     | 600 mg/m <sup>3</sup>        | Workers                | Systemic              |          |
|   | DNEL                               | Inhalation<br>Long term Oral | 1.6 mg/kg<br>bw/day          | General<br>population  | Systemic              |          |
|   | DNEL                               | Inhalation<br>Long term      | 14.8 mg/m <sup>3</sup>       | General<br>population  | Systemic              |          |
|   | DNEL                               | Inhalation<br>Long term      | 77 mg/m <sup>3</sup>         | Workers                | Systemic              |          |
|   | DNEL                               | Dermal<br>Long term          | 108 mg/kg<br>bw/day          | General<br>population  | Systemic              |          |
|   | DNEL                               | Dermal<br>Long term          | 180 mg/kg<br>bw/day          | Workers                | Systemic              |          |
|   | DNEL                               | Inhalation<br>Short term     | 289 mg/m <sup>3</sup>        | Workers                | Local                 |          |
|   | DNEL                               | Inhalation<br>Short term     | 289 mg/m <sup>3</sup>        | Workers                | Systemic              |          |
|   | DNEL                               | Inhalation<br>Long term      | 65.3 mg/m <sup>3</sup>       | General<br>population  | Local                 |          |
|   | DNEL                               | Inhalation<br>Short term     | 260 mg/m <sup>3</sup>        | General<br>population  | Local                 |          |
|   | DNEL                               | Inhalation<br>Short term     | 260 mg/m <sup>3</sup>        | General<br>population  | Systemic              |          |
|   | DNEL                               | Inhalation<br>Long term      | 221 mg/m <sup>3</sup>        | Workers                | Local                 |          |
|   | Ethylbenzene                       | DNEL                         | Inhalation<br>Long term Oral | 1.6 mg/kg<br>bw/day    | General<br>population | Systemic |
| DNEL                                    |                                    | Inhalation<br>Long term      | 15 mg/m <sup>3</sup>         | General<br>population  | Systemic              |          |
| DNEL                                    |                                    | Inhalation<br>Long term      | 77 mg/m <sup>3</sup>         | Workers                | Systemic              |          |
| DNEL                                    |                                    | Dermal<br>Long term          | 180 mg/kg<br>bw/day          | Workers                | Systemic              |          |
| DNEL                                    |                                    | Inhalation<br>Short term     | 293 mg/m <sup>3</sup>        | Workers                | Local                 |          |
| DMEL                                    |                                    | Inhalation<br>Long term      | 442 mg/m <sup>3</sup>        | Workers                | Local                 |          |
| DMEL                                    |                                    | Inhalation<br>Short term     | 884 mg/m <sup>3</sup>        | Workers                | Systemic              |          |
| DNEL                                    |                                    | Inhalation<br>Long term      | 0.41 mg/m <sup>3</sup>       | General<br>population  | Systemic              |          |
| DNEL                                    |                                    | Inhalation<br>Long term      | 1.9 mg/m <sup>3</sup>        | Workers                | Systemic              |          |
| DNEL                                    |                                    | Inhalation<br>Long term      | 178.57 mg/<br>m <sup>3</sup> | General<br>population  | Local                 |          |
| Naphtha (petroleum), hydrotreated heavy | DNEL                               | Long term Oral               | 300 mg/kg<br>bw/day          | General<br>population  | Systemic              |          |
|   | DNEL                               | Dermal<br>Long term          | 300 mg/kg<br>bw/day          | General<br>population  | Systemic              |          |
|   | DNEL                               | Dermal<br>Long term          | 300 mg/kg<br>bw/day          | Workers                | Systemic              |          |
|   | DNEL                               | Inhalation<br>Short term     | 640 mg/m <sup>3</sup>        | General<br>population  | Local                 |          |
|   | DNEL                               | Inhalation<br>Long term      | 837.5 mg/<br>m <sup>3</sup>  | Workers                | Local                 |          |
|   | DNEL                               | Inhalation<br>Short term     | 1066.67<br>mg/m <sup>3</sup> | Workers                | Local                 |          |
|   | DNEL                               | Inhalation<br>Short term     | 1152 mg/<br>m <sup>3</sup>   | General<br>population  | Systemic              |          |
|   | DNEL                               | Inhalation<br>Short term     | 1286.4 mg/<br>m <sup>3</sup> | Workers                | Systemic              |          |
|   | Solvent naphtha (petroleum), light | DNEL                         | Long term                    | 0.41 mg/m <sup>3</sup> | General               | Systemic |

## SECTION 8: Exposure controls/personal protection

|  |      |  |                              |                       |          |
|--|------|--|------------------------------|-----------------------|----------|
| aromatic<br><br><br><br><br><br><br><br><br><br>N,N'-ethane-1,2-diylbis<br>(12-hydroxyoctadecan-1-amide) | DNEL | Inhalation<br>Long term<br>Inhalation  | 1.9 mg/m <sup>3</sup>        | population<br>Workers | Systemic |
|  | DNEL | Inhalation<br>Long term<br>Inhalation  | 178.57 mg/<br>m <sup>3</sup> | General<br>population | Local    |
|  | DNEL | Inhalation<br>Short term<br>Inhalation | 640 mg/m <sup>3</sup>        | General<br>population | Local    |
|  | DNEL | Inhalation<br>Long term<br>Inhalation  | 837.5 mg/<br>m <sup>3</sup>  | Workers               | Local    |
|  | DNEL | Inhalation<br>Short term<br>Inhalation | 1066.67<br>mg/m <sup>3</sup> | Workers               | Local    |
|  | DNEL | Inhalation<br>Short term<br>Inhalation | 1152 mg/<br>m <sup>3</sup>   | General<br>population | Systemic |
|  | DNEL | Inhalation<br>Short term<br>Inhalation | 1286.4 mg/<br>m <sup>3</sup> | Workers               | Systemic |
|  | DNEL | Inhalation<br>Long term<br>Inhalation  | 0.83 mg/m <sup>3</sup>       | General<br>population | Local    |
|  | DNEL | Inhalation<br>Long term<br>Inhalation  | 3.35 mg/m <sup>3</sup>       | Workers               | Local    |

### PNECs

No PNECs available

## 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. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

### Individual protection measures

#### Hygiene measures

- : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Eye/face protection

- : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

### 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.

Recommendations : Wear suitable gloves tested to EN374.

< 1 hour (breakthrough time): Nitrile gloves. thickness > 0.3 mm

> 8 hours (breakthrough time): 4H / Silver Shield® gloves.

Wash hands before breaks and immediately after handling the product.

#### 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. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.



## SECTION 8: Exposure controls/personal protection

- 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** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.  
Filter type: A  
Filter type (spray application): A P
- 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** : Various
- Odour** : Slight
- Odour threshold** : Not available.
- Melting point/freezing point** : Not available.
- Initial boiling point and boiling range** :

| Ingredient name                             | °C         | °F         | Method   |
|---|------------|------------|----------|
| Butyl acetate                               | 126        | 258.8      | OECD 103 |
| Solvent naphtha (petroleum), light aromatic | 135 to 210 | 275 to 410 |          |

- Flammability** : Not available.
- Lower and upper explosion limit** : Lower: 0.8%  
Upper: 7.6%
- Flash point** : Closed cup: 17°C (62.6°F)
- Auto-ignition temperature** :

| Ingredient name                             | °C         | °F         | Method |
|---|------------|------------|--------|
| Naphtha (petroleum), hydrotreated heavy     | 280 to 470 | 536 to 878 |        |
| Solvent naphtha (petroleum), light aromatic | 280 to 470 | 536 to 878 |        |

- Decomposition temperature** : Not available.
- pH** : Not applicable.
- Viscosity** : Not available.
- Solubility(ies)** :  
Not available.

- Solubility in water** : Not available.
- Partition coefficient: n-octanol/ water** : Not applicable.
- Vapour pressure** :

| Ingredient name | Vapour Pressure at 20°C |     |                | Vapour pressure at 50°C |     |        |
|-----------------|-------------------------|-----|----------------|-------------------------|-----|--------|
|                 | mm Hg                   | kPa | Method         | mm Hg                   | kPa | Method |
| Butyl acetate   | 11.25                   | 1.5 | DIN EN 13016-2 |                         |     |        |
| Ethylbenzene    | 9.3                     | 1.2 |                |                         |     |        |

## SECTION 9: Physical and chemical properties

|                                 |                         |
|---------------------------------|-------------------------|
| Relative density                | : Not available.        |
| Density                         | : 1.4 g/cm <sup>3</sup> |
| Vapour density                  | : Not available.        |
| Explosive properties            | : Not available.        |
| Oxidising properties            | : Not available.        |
| <b>Particle characteristics</b> |                         |
| Median particle size            | : Not applicable.       |

## 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** : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.

**10.5 Incompatible materials** : Reactive or incompatible with the following materials:  
oxidising materials

**10.6 Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

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

#### Acute toxicity

| Product/ingredient name                     | Result                          | Species | Dose                   | Exposure |
|---|---------------------------------|---------|------------------------|----------|
| Butyl acetate                               | LC50 Inhalation Vapour          | Rat     | 0.74 mg/l              | 4 hours  |
|   | LD50 Dermal                     | Rabbit  | 14112 mg/kg            | -        |
|   | LD50 Oral                       | Rat     | 10760 mg/kg            | -        |
| Xylene                                      | LC50 Inhalation Vapour          | Rat     | 21.7 mg/l              | 4 hours  |
|   | LD50 Oral                       | Rat     | 4300 mg/kg             | -        |
| Ethylbenzene                                | LC50 Inhalation Dusts and mists | Rat     | 29000 mg/l             | 4 hours  |
|   | LD50 Dermal                     | Rabbit  | 15400 mg/kg            | -        |
|   | LD50 Oral                       | Rat     | 3500 mg/kg             | -        |
| Naphtha (petroleum), hydrotreated heavy     | LC50 Inhalation Vapour          | Rat     | 8500 mg/m <sup>3</sup> | 4 hours  |
|   | LD50 Oral                       | Rat     | >6 g/kg                | -        |
| Solvent naphtha (petroleum), light aromatic | LD50 Oral                       | Rat     | 8400 mg/kg             | -        |

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

#### Acute toxicity estimates

| Route                | ATE value      |
|----------------------|----------------|
| Dermal               | 12142.63 mg/kg |
| Inhalation (vapours) | 99.57 mg/l     |

#### Irritation/Corrosion

## SECTION 11: Toxicological information

| Product/ingredient name                     | Result                   | Species | Score | Exposure        | Observation |
|---|--------------------------|---------|-------|-----------------|-------------|
| Butyl acetate                               | Eyes - Moderate irritant | Rabbit  | -     | 100 mg          | -           |
|   | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 mg | -           |
| Xylene                                      | Eyes - Mild irritant     | Rabbit  | -     | 87 mg           | -           |
|   | Eyes - Severe irritant   | Rabbit  | -     | 24 hours 5 mg   | -           |
| Ethylbenzene                                | Skin - Mild irritant     | Rat     | -     | 8 hours 60 uL   | -           |
|   | Skin - Moderate irritant | Rabbit  | -     | 100 %           | -           |
|   | Skin - Moderate irritant | Rabbit  | -     | 24 hours 500 mg | -           |
| Solvent naphtha (petroleum), light aromatic | Eyes - Severe irritant   | Rabbit  | -     | 500 mg          | -           |
|   | Skin - Mild irritant     | Rabbit  | -     | 24 hours 15 mg  | -           |
| Solvent naphtha (petroleum), light aromatic | Eyes - Mild irritant     | Rabbit  | -     | 24 hours 100 uL | -           |

**Conclusion/Summary** : Causes skin irritation.

### Sensitisation

**Conclusion/Summary** : May cause an allergic skin reaction.

### Mutagenicity

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

### Carcinogenicity

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

### Reproductive toxicity

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

### Teratogenicity

**Conclusion/Summary** : 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                |
|---|------------|-------------------|------------------------------|
| Butyl acetate                               | Category 3 | -                 | Narcotic effects             |
| Xylene                                      | Category 3 | -                 | Respiratory tract irritation |
| Solvent naphtha (petroleum), light aromatic | Category 3 | -                 | Respiratory tract irritation |
|   | Category 3 | -                 | Narcotic effects             |

### Specific target organ toxicity (repeated exposure)

| Product/ingredient name | Category   | Route of exposure | Target organs  |
|-------------------------|------------|-------------------|----------------|
| Xylene                  | Category 2 | oral, inhalation  | -              |
| Ethylbenzene            | Category 2 | oral, inhalation  | hearing organs |

### Aspiration hazard

| Product/ingredient name                     | Result                         |
|---|--------------------------------|
| Xylene                                      | ASPIRATION HAZARD - Category 1 |
| Ethylbenzene                                | ASPIRATION HAZARD - Category 1 |
| Naphtha (petroleum), hydrotreated heavy     | ASPIRATION HAZARD - Category 1 |
| Solvent naphtha (petroleum), light aromatic | ASPIRATION HAZARD - Category 1 |

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

### Potential acute health effects

**Eye contact** : Causes serious eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : Causes skin irritation. May cause an allergic skin reaction.

## SECTION 11: Toxicological information

**Ingestion** : No known significant effects or critical hazards.

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

**Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness

**Inhalation** : No specific data.

**Skin contact** : Adverse symptoms may include the following:  
irritation  
redness

**Ingestion** : No specific data.

### Delayed and immediate effects as well as chronic effects from short and long-term exposure

#### Short term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Long term exposure

**Potential immediate effects** : Not available.

**Potential delayed effects** : Not available.

#### Potential chronic health effects

Not available.

**Conclusion/Summary** : Not available.

**General** : Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

**Carcinogenicity** :  No known significant effects or critical hazards.

**Mutagenicity** : No known significant effects or critical hazards.

**Reproductive toxicity** : No known significant effects or critical hazards.

## 11.2 Information on other hazards

### 11.2.1 Endocrine disrupting properties

Not available.

### 11.2.2 Other information

Not available.

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name                               | Result                            | Species                      | Exposure |
|---|-----------------------------------|------------------------------|----------|
| <input checked="" type="checkbox"/> n-Butyl acetate   | Acute LC50 32 mg/l Marine water   | Crustaceans - Artemia salina | 48 hours |
|   | Acute LC50 18000 µg/l Fresh water | Fish - Pimephales promelas   | 96 hours |
|   | Acute EC50 3.2 mg/l               | Daphnia                      | 48 hours |
| Solvent naphtha (petroleum), light aromatic           | Acute LC50 9.2 mg/l               | Fish                         | 96 hours |
| N,N'-ethane-1,2-diylbis (12-hydroxyoctadecan-1-amide) | Acute LC50 10 mg/l                | Fish                         | 4 days   |

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

### 12.2 Persistence and degradability

**Conclusion/Summary** : This product has not been tested for biodegradation.

## SECTION 12: Ecological information

### 12.3 Bioaccumulative potential

| Product/ingredient name                        | LogP <sub>ow</sub> | BCF         | Potential |
|--|--------------------|-------------|-----------|
| n-Butyl acetate                                | 2.3                | -           | low       |
| Xylene   | 3.12               | 8.1 to 25.9 | low       |
| Ethylbenzene                                   | 3.6                | -           | low       |
| Naphtha (petroleum),<br>hydrotreated heavy     | -                  | 10 to 2500  | high      |
| Solvent naphtha (petroleum),<br>light aromatic | -                  | 10 to 2500  | high      |

### 12.4 Mobility in soil

**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Mobility** : Not available.

### 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.

### 12.6 Endocrine disrupting properties

Not available.

### 12.7 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

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





**European waste catalogue (EWC)** : 080111\*, 200127\*

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

## SECTION 14: Transport information

|                                 | ADR/RID  | ADN  | IMDG  | IATA   |
|---------------------------------|--|--|---|--|
| 14.1 UN number or ID number     | UN1263   | UN1263   | UN1263  | UN1263   |
| 14.2 UN proper shipping name    | PAINT  | PAINT  | PAINT   | PAINT  |
| 14.3 Transport hazard class(es) | 3<br> | 3<br> | 3<br> | 3<br> |
| 14.4 Packing group              | III  | III  | III   | III  |
| 14.5 Environmental hazards      | No.  | No.  | No.   | No.  |

### Additional information

ADR/RID : **Tunnel code** (D/E)

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 relevant/applicable due to nature of the product.

## 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

##### Other EU regulations

**Industrial emissions** : Listed  
(integrated pollution  
prevention and control) -  
Air

**Industrial emissions** : Listed  
(integrated pollution  
prevention and control) -  
Water

##### Ozone depleting substances (1005/2009/EU)

Not listed.

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



## SECTION 15: Regulatory information

Not listed.

### Persistent Organic Pollutants

Not listed.

### Seveso Directive

This product is controlled under the Seveso Directive.

#### Danger criteria

| Category |
|----------|
| P5c      |

### National regulations

### International regulations

### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

### Montreal Protocol

Not listed.

### Stockholm Convention on Persistent Organic Pollutants

Not listed.

### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

### **15.2 Chemical safety assessment**

: 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]  
DMEL = Derived Minimal Effect Level  
DNEL = Derived No Effect Level  
EUH statement = CLP-specific Hazard statement  
N/A = Not available  
PBT = Persistent, Bioaccumulative and Toxic  
PNEC = Predicted No Effect Concentration  
RRN = REACH Registration Number  
SGG = Segregation Group  
vPvB = Very Persistent and Very Bioaccumulative

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

| Classification  | Justification   |
|---|---|
| ✔ Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Skin Sens. 1, H317 | On basis of test data<br>Calculation method<br>Calculation method<br>Calculation method |

### Full text of abbreviated H statements

## SECTION 16: Other information

|        |  |
|--------|--|
| H225   | Highly flammable liquid and vapour.                                |
| H226   | Flammable liquid and vapour.                                       |
| H304   | May be fatal if swallowed and enters airways.                      |
| H312   | Harmful in contact with skin.                                      |
| H315   | Causes skin irritation.  |
| H317   | May cause an allergic skin reaction.                               |
| H319   | Causes serious eye irritation.                                     |
| H332   | Harmful if inhaled.  |
| H335   | May cause respiratory irritation.                                  |
| H336   | May cause drowsiness or dizziness.                                 |
| H373   | May cause damage to organs through prolonged or repeated exposure. |
| H411   | Toxic to aquatic life with long lasting effects.                   |
| H412   | Harmful to aquatic life with long lasting effects.                 |
| EUH066 | Repeated exposure may cause skin dryness or cracking.              |

### [Full text of classifications \[CLP/GHS\]](#)

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

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**Version** : 5

EPINOX 74-01

All variants

### [Notice to reader](#)

The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfil the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.

