



SAFETY DATA SHEET

Topper Gel

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

1.1 Product identifier

Product name : Topper Gel
Product description : Cleaning solutions. Paint remover.
Product type : Liquid.
UFI : ED40-K0EC-700V-EG68

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

| Identified uses | |
|------------------------------------|---|
| Industrial use Professional use | |
| Uses advised against | Reason |
| Consumer use | Product is not intended for consumer use. |

1.3 Details of the supplier of the safety data sheet

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enquiries@tor-coatings.com

e-mail address of person responsible for this SDS : rpmeurohas@rustoleum.eu

1.4 Emergency telephone number

National advisory body/Poison Centre

Supplier

Telephone number United Kingdom: : +44 870 8200418 / +44 2038073798
Great Britain

Hours of operation : 24 / 7

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

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

Acute Tox. 4, H302
Acute Tox. 4, H332
Skin Corr. 1B, H314
Eye Dam. 1, H318
STOT SE 3, H335

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

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SECTION 2: Hazards identification

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

: H302 + H332 - Harmful if swallowed or if inhaled.
H314 - Causes severe skin burns and eye damage.
H335 - May cause respiratory irritation.

Precautionary statements

General

: Not applicable.

Prevention

: P280 - Wear protective gloves, protective clothing and eye or face protection.
P271 - Use only outdoors or in a well-ventilated area.

Response

: P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor.
P303 + P361 + P353, P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor.
P305 + P351 + P338, P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

Storage

: P405 - Store locked up.

Disposal

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

Hazardous ingredients

: benzyl alcohol
2-aminoethanol

Supplemental label elements

: Not applicable.

Supplemental label elements : Detergents - Regulation (EC) No 907/2006

: For professional use only. This information is provided by the present Safety Data Sheet.

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

: Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant fastenings

: Not applicable.

Tactile warning of danger

: Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

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

Other hazards which do not result in classification

: None known.

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SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

United Kingdom: Great Britain

| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Type |
|---------------------------|---|-----------|---|--|---------|
| benzyl alcohol | REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5 | ≥50 - ≤75 | Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319 | ATE [Oral] = 1620 mg/kg ATE [Inhalation (dusts and mists)] = 4,178 mg/l | [1] |
| 2-aminoethanol | REACH #: 01-2119486455-28 EC: 205-483-3 CAS: 141-43-5 Index: 603-030-00-8 | ≥10 - ≤25 | Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 3, H412 | ATE [Oral] = 1089 mg/kg ATE [Dermal] = 1025 mg/kg ATE [Inhalation (dusts and mists)] = 1,487 mg/l STOT SE 3, H335: C ≥ 5% | [1] [2] |
| Isopropyl alcohol | REACH #: 01-2119457558-25 EC: 200-661-7 CAS: 67-63-0 Index: 603-117-00-0 | ≤10 | Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 | - | [1] [2] |
| 2-(2-butoxyethoxy)ethanol | REACH #: 01-2119475104-44 EC: 203-961-6 CAS: 112-34-5 | ≤10 | Eye Irrit. 2, H319 See Section 16 for the full text of the H statements declared above. | - | [1] [2] |

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

: Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician.

Inhalation

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. 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. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie,

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SECTION 4: First aid measures

- belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of 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.
- Ingestion** : Get medical attention immediately. Call a poison center or physician. 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. Chemical burns must be treated promptly by a physician. 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. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed

Over-exposure signs/symptoms

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

4.3 Indication of any immediate medical attention and special treatment needed

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

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SECTION 5: Firefighting measures

Hazards from the substance or mixture : In a fire or if heated, a pressure increase will occur and the container may burst.

Hazardous combustion products : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
nitrogen 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.

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.

Additional information : No unusual hazard if involved in a fire.

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).

6.3 Methods and material for containment and cleaning up

Small spill : Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

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

6.4 Reference to other sections

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

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SECTION 7: Handling and storage

The information in this section contains generic advice and guidance.

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Keep away from acids. 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 original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Separate from acids. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

- 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

United Kingdom: Great Britain

| Product/ingredient name | Exposure limit values |
|---------------------------|---|
| 2-aminoethanol | EH40/2005 WELs (United Kingdom (UK), 8/2018). Absorbed through skin. STEL: 7,6 mg/m ³ 15 minutes. STEL: 3 ppm 15 minutes. TWA: 1 ppm 8 hours. TWA: 2,5 mg/m ³ 8 hours. |
| Isopropyl alcohol | EH40/2005 WELs (United Kingdom (UK), 1/2020). STEL: 1250 mg/m ³ 15 minutes. STEL: 500 ppm 15 minutes. TWA: 999 mg/m ³ 8 hours. TWA: 400 ppm 8 hours. |
| 2-(2-butoxyethoxy)ethanol | EH40/2005 WELs (United Kingdom (UK), 1/2020). TWA: 10 ppm 8 hours. STEL: 15 ppm 15 minutes. TWA: 67,5 mg/m ³ 8 hours. STEL: 101,2 mg/m ³ 15 minutes. |

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SECTION 8: Exposure controls/personal protection

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 |
|---------------------------|------|-----------------------|-------------------------|--------------------------------|----------|
| benzyl alcohol | DNEL | Short term Dermal | 47 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 450 mg/m ³ | Workers | Systemic |
| | DNEL | Long term Dermal | 9,5 mg/kg bw/day | Workers | Systemic |
| | DNEL | Long term Inhalation | 90 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Dermal | 28,5 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Short term Inhalation | 40,55 mg/m ³ | General population [Consumers] | Systemic |
| | DNEL | Short term Oral | 25 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Dermal | 5,7 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Long term Inhalation | 8,11 mg/m ³ | General population [Consumers] | Systemic |
| | DNEL | Long term Oral | 5 mg/kg bw/day | General population [Consumers] | Systemic |
| Isopropyl alcohol | DNEL | Short term Dermal | 888 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 500 mg/m ³ | Workers | Systemic |
| | DNEL | Short term Dermal | 319 mg/kg bw/day | General population [Consumers] | Systemic |
| | DNEL | Short term Inhalation | 89 mg/m ³ | General population [Consumers] | Systemic |
| | DNEL | Short term Oral | 26 mg/kg bw/day | General population [Consumers] | Systemic |
| 2-(2-butoxyethoxy)ethanol | DNEL | Long term Inhalation | 67,5 mg/m ³ | Workers | Local |
| | DNEL | Long term Dermal | 20 mg/kg bw/day | Workers | Systemic |
| | DNEL | Short term Inhalation | 50,6 mg/m ³ | General population | Local |

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SECTION 8: Exposure controls/personal protection

| | | | | | |
|--|------|----------------------|------------------------|-----------------------------------|----------|
| | DNEL | Long term Inhalation | 34 mg/m ³ | [Consumers] General population | Local |
| | DNEL | Long term Dermal | 10 mg/kg bw/day | [Consumers] General population | Systemic |
| | DNEL | Long term Inhalation | 67,5 mg/m ³ | [Consumers] Workers | Systemic |

PNECs

| Product/ingredient name | Compartment Detail | Value | Method Detail |
|---------------------------|------------------------|-------------|--------------------------|
| benzyl alcohol | Fresh water | 1 mg/l | Assessment Factors |
| | Marine | 0,1 mg/l | Assessment Factors |
| | Fresh water sediment | 5,27 mg/kg | Assessment Factors |
| | Marine water sediment | 0,527 mg/kg | Assessment Factors |
| | Soil | 0,456 mg/kg | Assessment Factors |
| | Sewage Treatment Plant | 39 mg/l | Assessment Factors |
| Isopropyl alcohol | Fresh water | 140,9 mg/l | - |
| | Marine | 140,9 mg/l | - |
| | Fresh water sediment | 552 mg/kg | - |
| | Marine water sediment | 552 mg/kg | - |
| | Soil | 28 mg/kg | - |
| | Sewage Treatment Plant | 2251 mg/l | - |
| 2-(2-butoxyethoxy)ethanol | Fresh water | 1,1 mg/l | Assessment Factors |
| | Marine | 0,11 mg/l | - |
| | Fresh water sediment | 4,4 mg/kg | Equilibrium Partitioning |
| | Marine water sediment | 0,44 mg/kg | Equilibrium Partitioning |
| | Sewage Treatment Plant | 200 mg/l | Assessment Factors |
| | Soil | 0,32 mg/kg | Equilibrium Partitioning |
| | Secondary Poisoning | 56 mg/kg | 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. Appropriate techniques should be used to remove potentially contaminated clothing. 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. Use eye protection according to EN 166. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Skin protection

SECTION 8: Exposure controls/personal protection

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

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

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

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

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

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

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

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. > 8 hours (breakthrough time): fluor rubber

The recommendation for the type or types of glove to use when handling this product is based on information from the following source: EN374. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment.

Body protection : 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. Recommended: Wear overalls or long sleeved shirt. (EN 467)

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. Recommended: organic vapour (Type A) and particulate filter (EN 141)

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

| | |
|--|---|
| Physical state | : Liquid. |
| Colour | : Colourless. |
| Odour | : Characteristic. |
| Odour threshold | : Not available. |
| Melting point/freezing point | : Not available. |
| Initial boiling point and boiling range | : >97°C (>206,6°F) [Literature] |
| Flammability (solid, gas) | : Not available. |
| Lower and upper explosion limit | : Lower: 1,3% [Literature] Upper: 13% [Literature] |
| Flash point | : Closed cup: >75°C (>167°F) [Literature] |

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SECTION 9: Physical and chemical properties

| | |
|----------------------------------|--|
| Auto-ignition temperature | : 225°C (437°F) [Literature] |
| Decomposition temperature | : Not available. |
| pH | : 12 [Conc. (% w/w): 100%] [OECD 122] |
| pH : Justification | : Not available. |
| Viscosity | : Dynamic: 6000 to 9000 mPa·s [ISO EN BS DIN 3219] |
| Solubility(ies) | : |

| Media | Result |
|------------|-------------------|
| cold water | Partially soluble |
| hot water | Partially soluble |

| | |
|--|--|
| Solubility in water | : Not available. |
| Partition coefficient: n-octanol/ water | : 1,1 |
| Vapour pressure | : 0,02 kPa (0,15001 mm Hg) |
| Evaporation rate | : Not available. |
| Relative density | : Not available. |
| Density | : 1,01 g/cm ³ [20°C (68°F)] [DIN 53217] |
| Vapour density | : Not available. |
| Explosive properties | : Highly explosive in the presence of the following materials or conditions: open flames, sparks and static discharge. |
| Oxidising properties | : Not available. |
| Particle characteristics | |
| 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 | : No specific data. |
| 10.5 Incompatible materials | : Reactive or incompatible with the following materials: acids |
| 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 |

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SECTION 11: Toxicological information

| Product/ingredient name | Result | Species | Dose | Exposure |
|---------------------------|---------------------------------|--------------|-------------|----------|
| benzyl alcohol | LC50 Inhalation Dusts and mists | Rat | 4,178 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 2000 mg/kg | - |
| | LD50 Oral | Rat | 1620 mg/kg | - |
| 2-aminoethanol | LC50 Inhalation Dusts and mists | Rat | 1,487 mg/l | 4 hours |
| | LC50 Inhalation Vapour | Rat | >1,3 mg/l | 6 hours |
| | LD50 Dermal | Rabbit | 1025 mg/kg | - |
| Isopropyl alcohol | LD50 Dermal | Rat | 2504 mg/kg | - |
| | LD50 Oral | Rat | 1089 mg/kg | - |
| | LC50 Inhalation Vapour | Rat | 30 mg/l | 4 hours |
| | LC50 Inhalation Vapour | Rat | 16000 ppm | 4 hours |
| | LD50 Dermal | Rabbit | 12800 mg/kg | - |
| 2-(2-butoxyethoxy)ethanol | LD50 Oral | Rat | 5000 mg/kg | - |
| | LC50 Inhalation Vapour | Rat | 58 mg/l | 4 hours |
| | LD50 Dermal | Rabbit | 2700 mg/kg | - |
| | LD50 Oral | Mouse | 2400 mg/kg | - |
| | LD50 Oral | Mouse - Male | 2410 mg/kg | - |
| | LD50 Oral | Rat | 3305 mg/kg | - |

Conclusion/Summary : Harmful if inhaled. Harmful if swallowed.

Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapours) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|---------------------------|--------------|----------------|--------------------------|-----------------------------|-------------------------------------|
| benzyl alcohol | 1620 | N/A | N/A | N/A | 4,178 |
| 2-aminoethanol | 1089 | 1025 | N/A | N/A | 1,487 |
| Isopropyl alcohol | 5000 | 12800 | N/A | 30 | N/A |
| 2-(2-butoxyethoxy)ethanol | 3305 | 2700 | N/A | 58 | N/A |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|-------------------------|--------------------------|---------|-------|-------------------------|-------------|
| benzyl alcohol | Eyes - Irritant | Rabbit | - | - | - |
| | Skin - Moderate irritant | Pig | - | 100 Percent | - |
| 2-aminoethanol | Eyes - Severe irritant | Rabbit | - | 250 Micrograms | - |
| | Skin - Moderate irritant | Rabbit | - | 505 milligrams | - |
| Isopropyl alcohol | Skin - Severe irritant | Rabbit | - | - | - |
| | Eyes - Moderate irritant | Rabbit | - | 10 milligrams | - |
| | Eyes - Moderate irritant | Rabbit | - | 24 hours 100 milligrams | - |
| | Eyes - Severe irritant | Rabbit | - | 100 milligrams | - |
| | Skin - Mild irritant | Rabbit | - | 500 milligrams | - |

Conclusion/Summary

Skin : Causes severe skin burns and eye damage.

Eyes : Causes serious eye damage.

Respiratory : May cause respiratory irritation.

Sensitisation

Conclusion/Summary

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

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

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SECTION 11: Toxicological information

Mutagenicity

| Product/ingredient name | Test | Experiment | Result |
|-------------------------|----------|-------------------|----------|
| Isopropyl alcohol | OECD 471 | Subject: Bacteria | Negative |

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

Carcinogenicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|----------------------|---------|------|----------------------------|
| benzyl alcohol | Negative - Oral - TD | Rat | - | 103 weeks; 5 days per week |

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

| Product/ingredient name | Result | Species | Dose | Exposure |
|-------------------------|---|----------------|-----------|----------|
| benzyl alcohol | Negative - Route of exposure unreported | Mouse - Female | 550 mg/kg | - |

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 |
|-------------------------|------------|-------------------|------------------------------|
| 2-aminoethanol | Category 3 | - | Respiratory tract irritation |
| Isopropyl alcohol | Category 3 | - | Narcotic effects |

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on likely routes of exposure : Not available.

Potential acute health effects

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

Symptoms related to the physical, chemical and toxicological characteristics

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

Topper Gel

SECTION 11: Toxicological information

Ingestion : Adverse symptoms may include the following:
stomach pains

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

Short term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Long term exposure

Potential immediate effects : Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

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

General : No known significant effects or critical hazards.

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 |
|---------------------------|---|--|------------|
| benzyl alcohol | Acute EC50 770 mg/l | Algae | 72 hours |
| | Acute LC50 646 mg/l | Fish - Leuciscus idus | 48 hours |
| | Acute LC50 460000 µg/l Fresh water | Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling) | 96 hours |
| 2-aminoethanol | Acute NOEC 310 mg/l | Algae | 72 hours |
| | Acute EC50 80000 µg/l Fresh water | Algae - Isochrysis galbana | 96 hours |
| | Acute LC50 >100000 µg/l Marine water | Crustaceans - Crangon crangon - Adult | 48 hours |
| Isopropyl alcohol | Acute LC50 170000 µg/l Fresh water | Fish - Carassius auratus | 96 hours |
| | Chronic NOEC 0,85 mg/l | Daphnia spec. | 21 days |
| | Chronic NOEC 1,2 mg/l | Fish - Oryzias Latipes | 30 days |
| | Acute LC50 1400 to 1950 mg/l Marine water | Crustaceans - Crangon crangon | 48 hours |
| | Acute LC50 1400 mg/l | Fish - Gambusia affinis | 96 hours |
| 2-(2-butoxyethoxy)ethanol | Acute LC50 9640 to 10000 mg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| | Acute LC50 4200 mg/l Fresh water | Fish - Rasbora heteromorpha | 96 hours |
| | Acute EC10 1995 mg/l Fresh water | Micro-organism | 30 minutes |
| | Acute EC50 3300 mg/l Fresh water | Daphnia spec. | 24 hours |
| | Acute EC50 1101 mg/l Fresh water | Daphnia spec. | 48 hours |
| | Acute EC50 2850 mg/l | Daphnia spec. | 48 hours |
| | Acute EC50 1300 mg/l Fresh water | Fish | 96 hours |
| Acute NOEC >100 mg/l | Algae | 96 hours | |

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SECTION 12: Ecological information

| | | | |
|--|-----------------------|---------------|---------|
| | Chronic EC10 112 mg/l | Daphnia spec. | 14 days |
|--|-----------------------|---------------|---------|

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

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | Dose | Inoculum |
|-------------------------|-----------|---------------------------|--------|----------|
| benzyl alcohol | OECD 301A | 96 % - Readily - 21 days | - | - |
| 2-aminoethanol | OECD 301A | >90 % - Readily - 21 days | - | - |
| Isopropyl alcohol | OECD 301E | 95 % - 19 days | - | - |
| | - | 53 % - Readily - 5 days | - | - |
| | - | >70 % - Readily - 10 days | 7 mg/l | - |

Conclusion/Summary : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|---------------------------|-------------------|------------|------------------|
| benzyl alcohol | - | - | Readily |
| 2-aminoethanol | - | - | Readily |
| Isopropyl alcohol | - | - | Readily |
| 2-(2-butoxyethoxy)ethanol | - | - | Readily |

12.3 Bioaccumulative potential

| Product/ingredient name | LogP _{ow} | BCF | Potential |
|---------------------------|--------------------|-----|-----------|
| benzyl alcohol | 0,87 | - | low |
| 2-aminoethanol | -1,31 | - | low |
| Isopropyl alcohol | 0,05 | - | low |
| 2-(2-butoxyethoxy)ethanol | 1 | - | 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

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

The information in this section contains generic advice and guidance.

13.1 Waste treatment methods

Product

Topper Gel

SECTION 13: Disposal considerations

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.

European waste catalogue (EWC)

| Waste code | Waste designation |
|------------|--|
| 20 01 29* | detergents containing hazardous substances |

Special precautions : This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spill 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 | UN3267 | UN3267 | UN3267 | UN3267 |
| 14.2 UN proper shipping name | Corrosive liquid, basic, organic, n.o.s. (2-aminoethanol) | Corrosive liquid, basic, organic, n.o.s. (2-aminoethanol) | Corrosive liquid, basic, organic, n.o.s. (2-aminoethanol) | Corrosive liquid, basic, organic, n.o.s. (2-aminoethanol) |
| 14.3 Transport hazard class(es) | 8  | 8  | 8  | 8  |
| 14.4 Packing group | III | III | III | III |
| 14.5 Environmental hazards | No. | No. | No. | No. |
| Additional information | Limited quantity : ≤ 5L Tunnel code (E) | | Emergency schedules F-A;S-B Remarks : ≤ 5L: Limited Quantity - IMDG 3.4 | Quantity limitation Passenger and Cargo Aircraft: 5 L. Packaging instructions: 852. Cargo Aircraft Only: 60 L. Packaging instructions: 856. Limited Quantities - Passenger Aircraft: 1 L. Packaging instructions: Y 841. |

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.

Topper Gel

SECTION 14: Transport information

14.7 Transport in bulk according to IMO instruments : Not available.

SECTION 15: Regulatory information

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

Other EU regulations

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

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

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

United Kingdom: Great Britain

UK (GB) /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.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

Aerosol dispensers :

Seveso Directive

This product is not controlled under the Seveso Directive.

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

International regulations

Stockholm Convention on Persistent Organic Pollutants

Topper Gel

SECTION 15: Regulatory information

| List name | Ingredient name | Status |
|-------------|-----------------|--------|
| Not listed. | | |

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

| List name | Ingredient name | Status |
|-------------|-----------------|--------|
| Not listed. | | |

CN code : 3814 00 90 99

Inventory list

| | |
|--------------------------------|--|
| Australia | : All components are listed or exempted. |
| Canada | : All components are listed or exempted. |
| China | : All components are listed or exempted. |
| Eurasian Economic Union | : Russian Federation inventory : Not determined. |
| Japan | : Japan inventory (CSCL) : All components are listed or exempted. Japan inventory (ISHL) : All components are listed or exempted. |
| New Zealand | : All components are listed or exempted. |
| Philippines | : All components are listed or exempted. |
| Republic of Korea | : All components are listed or exempted. |
| Taiwan | : All components are listed or exempted. |
| Thailand | : Not determined. |
| Turkey | : All components are listed or exempted. |
| United States | : Not determined. |
| Viet Nam | : Not determined. |

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 |
|---------------------|-----------------|
| Acute Tox. 4, H302 | Expert judgment |
| Acute Tox. 4, H332 | Expert judgment |
| Skin Corr. 1B, H314 | Expert judgment |
| Eye Dam. 1, H318 | Expert judgment |
| STOT SE 3, H335 | Expert judgment |

Full text of abbreviated H statements

Topper Gel

SECTION 16: Other information

United Kingdom: Great Britain

Full text of abbreviated H statements

| | |
|------|--|
| H225 | Highly flammable liquid and vapour. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H335 | May cause respiratory irritation. |
| H336 | May cause drowsiness or dizziness. |
| H412 | Harmful to aquatic life with long lasting effects. |

Full text of classifications [CLP/GHS]

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

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Notice to reader

IMPORTANT NOTE: The information in this Safety Data Sheet is based on the present state of knowledge and current legislation. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. The information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates. Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

MANUFACTURER'S DISCLAIMER: the conditions, methods and factors affecting the handling, storage, application, use and disposal of the product are not under the control and knowledge of the manufacturer. Therefore the manufacturer does not assume responsibility for any adverse events which may occur in the handling, storage, application, use, misuse or disposal of the product and, so far as permitted by applicable law, the manufacturer expressly disclaims liability for any and all loss, damages and/or expenses arising out of or in any way connected to the storage, handling, use or disposal of the product. Safe handling, storage, use and disposal are the responsibility of the users. Users must comply with all applicable health and safety laws.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.