

Paint Preparation



| | compilation: 16/11/2022 Revised: 27/07/2023 Version: 2 (Replaced 1) |
|------|--|
| SECT | ION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING |
| 1.1 | Product identifier: Paint Preparation |
| | Other means of identification: |
| | Non-applicable |
| 1.2 | Relevant identified uses of the substance or mixture and uses advised against: |
| | Relevant uses: Bodywork cleaning; product for the cleaning and care of means of transport. For professional users/industrial user only. |
| | Uses advised against: All uses not specified in this section or in section 7.3 |
| 1.3 | Details of the supplier of the safety data sheet: |
| | GARDX INTERNATIONAL LTD LAKE HOUSE, 2 PORT WAY, PORT SOLENT, PO6 4TY PORTSMOUTH - UNITED KINGDOM Phone: +44 (0)1243 376426 product@gardx.co.uk www.gardx.co.uk |
| | AUTOMOTOSOL S.R.O RYBNÁ 716/24 PRAHA 1 110 00 CZECH REPUBLIC |
| | +420 222 703288 |
| 1.4 | Emergency telephone number: CNN: 1012486. For 24/7 multilingual advice for spill, leak, fire, exposure, or accident call chemtrec @ + 442038850382. NPIS: 0844 892 0111 (healthcare professionals only) or NHS 111 |
| | |
| SECT | ION 2: HAZARDS IDENTIFICATION |
| | |
| 2.1 | Classification of the substance or mixture: |
| 2.1 | |
| 2.1 | Classification of the substance or mixture: GB CLP Regulation: Classification of this product has been carried out in accordance with GB CLP Regulation. |
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| 2.1 | Classification of the substance or mixture: GB CLP Regulation: Classification of this product has been carried out in accordance with GB CLP Regulation. |
| | Classification of the substance or mixture: GB CLP Regulation: Classification of this product has been carried out in accordance with GB CLP Regulation. Eye Irrit. 2: Eye irritation, Category 2, H319 Flam. Liq. 3: Flammable liquids, Category 3, H226 |
| | Classification of the substance or mixture: GB CLP Regulation: Classification of this product has been carried out in accordance with GB CLP Regulation. Eye Irrit. 2: Eye irritation, Category 2, H319 Flam. Liq. 3: Flammable liquids, Category 3, H226 Label elements: |
| | Classification of the substance or mixture: GB CLP Regulation: Classification of this product has been carried out in accordance with GB CLP Regulation. Eye Irrit. 2: Eye irritation, Category 2, H319 Flam. Liq. 3: Flammable liquids, Category 3, H226 Label elements: GB CLP Regulation: |
| | Classification of the substance or mixture: GB CLP Regulation: Classification of this product has been carried out in accordance with GB CLP Regulation. Eye Irrit. 2: Eye irritation, Category 2, H319 Flam. Liq. 3: Flammable liquids, Category 3, H226 Label elements: GB CLP Regulation: |
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| | Classification of the substance or mixture: GB CLP Regulation: Classification of this product has been carried out in accordance with GB CLP Regulation. Eye Irrit. 2: Eye irritation, Category 2, H319 Flam. Liq. 3: Flammable liquids, Category 3, H226 Label elements: GB CLP Regulation: Warning Warning Hazard statements: Eye Irrit. 2: H319 - Causes serious eye irritation. |
| | Classification of the substance or mixture: GB CLP Regulation: Classification of this product has been carried out in accordance with GB CLP Regulation. Eye Irrit. 2: Eye irritation, Category 2, H319 Flam. Liq. 3: Flammable liquids, Category 3, H226 Label elements: GB CLP Regulation: Warning Image: Statements: Eye Irrit. 2: H319 - Causes serious eye irritation. Flam. Liq. 3: H226 - Flammable liquid and vapour. Precautionary statements: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P230: Wear protective gloves/eye protection. P305: Wear protective gloves/eye protection. P305: HP351: F1N EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| | Classification of the substance or mixture: GB CLP Regulation: Classification of this product has been carried out in accordance with GB CLP Regulation. Eye Irrit. 2: Eye irritation, Category 2, H319 Flam. Liq. 3: Flammable liquids, Category 3, H226 Label elements: GB CLP Regulation: Warning Volume First Statements: Eye Irrit. 2: H319 - Causes serious eye irritation. Flam. Liq. 3: H226 - Flammable liquid and vapour. Precautionary statements: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280: Wear protective gloves/eye protection. P305+P331+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue |

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substance:

Non-applicable





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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS (continued)

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3.2 Mixture:

Chemical description: Alchohol Solvent/s

Components:

In accordance with Annex II of The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020, the product contains:

| | Identification | Chemical name/Classification | Concentration |
|--|---------------------|--|---------------|
| | | ethanol | 25 - <50 % |
| CAS: 64-17-5 Eye Irrit. 2: H319; Flam. Liq. 2: H225 - Danger | | Eye Irrit. 2: H319; Flam. Liq. 2: H225 - Danger | 25 - <50 % |
| | 67-63-0 | propan-2-ol | 3 - <10 % |
| CAS: | | Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336 - Danger | |
| | | Butanone | 1 -2 % |
| CAS: | 78-93-3 | Eye Irrit. 2: H319; Flam. Liq. 2: H225; STOT SE 3: H336; EUH066 - Danger | 1 - <3 % |
| To obt | ain moro informatio | n on the hazards of the substances consult sections 11, 12 and 16 | |

To obtain more information on the hazards of the substances consult sections 11, 12 and 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures:

The symptoms resulting from intoxication can appear after exposure, therefore, in case of doubt, seek medical attention for direct exposure to the chemical product or persistent discomfort, showing the SDS of this product.

By inhalation:

This product is not classified as hazardous through inhalation. However, in case of intoxication symptoms it is recommended to remove the person affected from the area of exposure, provide clean air and keep at rest. Request medical attention if symptoms persist.

By skin contact:

In case of contact it is recommended to clean the affected area thoroughly with water and neutral soap. In case of changes to the skin (stinging, redness, rashes, blisters,...), seek medical advice with this Safety Data Sheet

By eye contact:

Rinse eyes thoroughly with lukewarm water for at least 15 minutes. Do not allow the person affected to rub or close their eyes. If the injured person uses contact lenses, these should be removed unless they are stuck to the eyes, in which case this could cause further damage. In all cases, after cleaning, a doctor should be consulted as quickly as possible with the SDS of the product.

By ingestion/aspiration:

In case of consumption, seek immediate medical assistance showing the SDS for the product.

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

Acute and delayed effects are indicated in sections 2 and 11.

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

Non-applicable

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media:

If possible use polyvalent powder fire extinguishers (ABC powder), alternatively use foam or carbon dioxide extinguishers (CO₂).

Unsuitable extinguishing media:

IT IS RECOMMENDED NOT to use full jet water as an extinguishing agent.

5.2 Special hazards arising from the substance or mixture:

As a result of combustion or thermal decomposition reactive sub-products are created that can become highly toxic and, consequently, can present a serious health risk.

5.3 Advice for firefighters:

Depending on the magnitude of the fire it may be necessary to use full protective clothing and self-contained breathing apparatus (SCBA). Minimum emergency facilities and equipment should be available (fire blankets, portable first aid kit,...). Additional provisions:





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SECTION 5: FIREFIGHTING MEASURES (continued)

Act in accordance with the Internal Emergency Plan and the Information Sheets on actions to take after an accident or other emergencies. Eliminate all sources of ignition. In case of fire, cool the storage containers and tanks for products susceptible to combustion, explosion or BLEVE as a result of high temperatures. Avoid spillage of the products used to extinguish the fire into an aqueous medium.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

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For non-emergency personnel:

Isolate leaks provided that there is no additional risk for the people performing this task. Evacuate the area and keep out those without protection. Personal protection equipment must be used against potential contact with the spilt product (See section 8). Above all prevent the formation of any vapour-air flammable mixtures, through either ventilation or the use of an inert medium. Remove any source of ignition. Eliminate electrostatic charges by interconnecting all the conductive surfaces on which static electricity could form, and also ensuring that all surfaces are connected to the ground.

For emergency responders:

Wear protective equipment. Keep unprotected persons away. See section 8.

6.2 Environmental precautions:

This product is not classified as hazardous to the environment. Keep product away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up:

It is recommended:

Absorb the spillage using sand or inert absorbent and move it to a safe place. Do not absorb in sawdust or other combustible absorbents. For any concern related to disposal consult section 13.

6.4 Reference to other sections:

See sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling:

A.- General precautions for safe use

Comply with the current legislation concerning the prevention of industrial risks. Keep containers hermetically sealed. Control spills and residues, destroying them with safe methods (section 6). Avoid leakages from the container. Maintain order and cleanliness where dangerous products are used.

B.- Technical recommendations for the prevention of fires and explosions

Transfer in well ventilated areas, preferably through localized extraction. Fully control sources of ignition (mobile phones, sparks,...) and ventilate during cleaning operations. Avoid the existence of dangerous atmospheres inside containers, applying inertization systems where possible. Transfer at a slow speed to avoid the creation of electrostatic charges. Against the possibility of electrostatic charges: ensure a perfect equipotential connection, always use groundings, do not wear work clothes made of acrylic fibres, preferably wearing cotton clothing and conductive footwear. Comply with the essential security requirements for equipment and systems defined in The Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016 and with the minimum requirements for protecting the security and health of workers under the selection criteria of The Dangerous Substances and Explosive Atmospheres Regulations 2002, 2002 No. 2776. Consult section 10 for conditions and materials that should be avoided.

C.- Technical recommendations on general occupational hygiene

Do not eat or drink during the process, washing hands afterwards with suitable cleaning products.

D.- Technical recommendations to prevent environmental risks

It is recommended to have absorbent material available at close proximity to the product (See subsection 6.3)

7.2 Conditions for safe storage, including any incompatibilities:

A.- Technical measures for storage

Minimum Temp.: 4 °C Maximum Temp.: 40 °C

Maximum Temp.: 40

B.- General conditions for storage

Avoid sources of heat, radiation, static electricity and contact with food. For additional information see subsection 10.5

7.3 Specific end use(s):



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SECTION 7: HANDLING AND STORAGE (continued

Except for the instructions already specified it is not necessary to provide any special recommendation regarding the uses of this product.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Substances whose occupational exposure limits have to be monitored in the workplace:

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EH40/2005 Workplace exposure limits, fourth edition, published 2020:

| Identification | Occup | ational exposure lin | nits |
|----------------|--------------|----------------------|------------------------|
| propan-2-ol | WEL (8h) | 400 ppm | 999 mg/m³ |
| CAS: 67-63-0 | WEL (15 min) | 500 ppm | 1250 mg/m ³ |
| Butanone | WEL (8h) | 200 ppm | 600 mg/m ³ |
| CAS: 78-93-3 | WEL (15 min) | 300 ppm | 899 mg/m³ |
| ethanol | WEL (8h) | 1000 ppm | 1920 mg/m³ |
| CAS: 64-17-5 | WEL (15 min) | | |

Biological limit values:

| BIOLOGICAL MONITORING GUIDANCE VALUES (BMGVS) - EH40/2005 | | | |
|---|--------|----------------------|------------|
| Identification | NULL | NULL | NULL |
| Butanone CAS: 78-93-3 | 5 mg/L | Butan-2-one in urine | Post shift |

DNEL (Workers):

| | | Short e | xposure | Long ex | kposure |
|----------------|------------|----------------|----------------|----------------|----------------|
| Identification | | Systemic | Local | Systemic | Local |
| ethanol | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 64-17-5 | Dermal | Non-applicable | Non-applicable | 343 mg/kg | Non-applicable |
| EC: 200-578-6 | Inhalation | Non-applicable | Non-applicable | 950 mg/m³ | Non-applicable |
| propan-2-ol | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 67-63-0 | Dermal | Non-applicable | Non-applicable | 888 mg/kg | Non-applicable |
| EC: 200-661-7 | Inhalation | Non-applicable | Non-applicable | 500 mg/m³ | Non-applicable |
| Butanone | Oral | Non-applicable | Non-applicable | Non-applicable | Non-applicable |
| CAS: 78-93-3 | Dermal | Non-applicable | Non-applicable | 1161 mg/kg | Non-applicable |
| EC: 201-159-0 | Inhalation | Non-applicable | Non-applicable | 600 mg/m³ | Non-applicable |

DNEL (General population):

| | | Short exposure | | Long exposure | |
|----------------|------------|----------------|----------------|---------------|----------------|
| Identification | | Systemic | Local | Systemic | Local |
| ethanol | Oral | Non-applicable | Non-applicable | 87 mg/kg | Non-applicable |
| CAS: 64-17-5 | Dermal | Non-applicable | Non-applicable | 206 mg/kg | Non-applicable |
| EC: 200-578-6 | Inhalation | Non-applicable | Non-applicable | 114 mg/m³ | Non-applicable |
| propan-2-ol | Oral | Non-applicable | Non-applicable | 26 mg/kg | Non-applicable |
| CAS: 67-63-0 | Dermal | Non-applicable | Non-applicable | 319 mg/kg | Non-applicable |
| EC: 200-661-7 | Inhalation | Non-applicable | Non-applicable | 89 mg/m³ | Non-applicable |
| Butanone | Oral | Non-applicable | Non-applicable | 31 mg/kg | Non-applicable |
| CAS: 78-93-3 | Dermal | Non-applicable | Non-applicable | 412 mg/kg | Non-applicable |
| EC: 201-159-0 | Inhalation | Non-applicable | Non-applicable | 106 mg/m³ | Non-applicable |

PNEC:

| Identification | | | | |
|----------------|--------------|------------|-------------------------|-----------|
| ethanol | STP | 580 mg/L | Fresh water | 0.96 mg/L |
| CAS: 64-17-5 | Soil | 0.63 mg/kg | Marine water | 0.79 mg/L |
| EC: 200-578-6 | Intermittent | 2.75 mg/L | Sediment (Fresh water) | 3.6 mg/kg |
| | Oral | 0.38 g/kg | Sediment (Marine water) | 2.9 mg/kg |





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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION (continued)

| Identification | | | | |
|----------------|--------------|------------|-------------------------|--------------|
| propan-2-ol | STP | 2251 mg/L | Fresh water | 140.9 mg/L |
| CAS: 67-63-0 | Soil | 28 mg/kg | Marine water | 140.9 mg/L |
| EC: 200-661-7 | Intermittent | 140.9 mg/L | Sediment (Fresh water) | 552 mg/kg |
| | Oral | 0.16 g/kg | Sediment (Marine water) | 552 mg/kg |
| Butanone | STP | 709 mg/L | Fresh water | 55.8 mg/L |
| CAS: 78-93-3 | Soil | 22.5 mg/kg | Marine water | 55.8 mg/L |
| EC: 201-159-0 | Intermittent | 55.8 mg/L | Sediment (Fresh water) | 284.74 mg/kg |
| | Oral | 1 g/kg | Sediment (Marine water) | 284.7 mg/kg |

8.2

2 Exposure controls:

A.- Individual protection measures, such as personal protective equipment

As a preventative measure it is recommended to use basic Personal Protective Equipment, with the corresponding <<UKCA marking>>. For more information on Personal Protective Equipment (storage, use, cleaning, maintenance, class of protection,...) consult the information leaflet provided by the manufacturer. For more information see subsection 7.1. All information contained herein is a recommendation which needs some specification from the labour risk prevention services as it is not known whether the company has additional measures at its disposal.

B.- Respiratory protection

| Pictogram | | PPE | Remarks |
|--|------|---|--|
| Mandatory respirat tract protection | | Filter mask for gases and vapours (Filter type: A2) | Replace when there is a taste or smell of the contaminant inside the face mask. If the contaminant comes with warnings it is recommended to use isolation equipment. |
| C Specific protec | tion | for the hands | |

| Pictogram | PPE | Remarks |
|------------------------------|--|--|
| Mandatory hand protection | Protective gloves against minor risks (Material: Latex (natural rubber), Breakthrough time: > 480 min, Thickness: 0.062 mm, Conditions of use: Normal) | Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+A1:2010 and EN ISO 374-1:2016+A1:2018 |
| Mandatory hand protection | Protective gloves against minor risks (Material: Nitrile, Breakthrough time: > 480 min, Thickness: 0.062 mm, Conditions of use: Normal) | Replace gloves in case of any sign of damage. For prolonged periods of exposure to the product for professional users/industrials, we recommend using CE III gloves in line with standards EN 420:2004+A1:2010 and EN ISO 374-1:2016+A1:2018 |

As the product is a mixture of several substances, the resistance of the glove material can not be calculated in advance with total reliability and has therefore to be checked prior to the application.

D.- Eye and face protection

| Pictogram | PPE | Remarks |
|------------------------------|---|---|
| Mandatory face protection | Panoramic glasses against splash/projections. | Clean daily and disinfect periodically according to the manufacturer's instructions. Use if there is a risk of splashing. |

E.- Body protection

| Pictogram | PPE | Remarks |
|---------------------------------------|--|--|
| | Work clothing | Replace before any evidence of deterioration. For periods of prolonged exposure to th product for professional/industrial users CE III is recommended, in accordance with th regulations in EN ISO 6529:2013, EN ISO 6530:2005, EN ISO 13688:2013, EN 464:1994 |
| Mandatory complete body protection | Antistatic and fireproof protective clothing | Limited protection against flames. |





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| | Pictogram | | PPE | Remarks | | |
|-----|--|--|---|---|--|--|
| | Mandatory foot protection Safety fo | | twear with antistatic and heat resistant properties | Replace boots at any sign of deterioration. | | |
| F A | dditional emerger | | res Standards | Emergency measure | Standards | |
| | * | | ANSI Z358-1 ISO 3864-1:2011, ISO 3864-4:2011 | * * | DIN 12 899 ISO 3864-1:2011, ISO 3864-4:2011 | |

Emergency shower Environmental exposure controls:

In accordance with the community legislation for the protection of the environment it is recommended to avoid environmental spillage of both the product and its container. For additional information see subsection 7.1.D

Eyewash stations

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

| Appearance: | |
|--|----------------------------|
| Physical state at 20 °C: | Liquid |
| Appearance: | Volatile |
| Colour: | Colourless |
| Odour: | Alcohol |
| Odour threshold: | Non-applicable * |
| Volatility: | |
| Boiling point at atmospheric pressure: | 90 ºC |
| Vapour pressure at 20 °C: | 3255 Pa |
| Vapour pressure at 50 ºC: | 16311.02 Pa (16.31 kPa) |
| Evaporation rate at 20 °C: | Non-applicable * |
| Product description: | |
| Density at 20 ºC: | Non-applicable * |
| Relative density at 20 °C: | 0.878 - 0.978 |
| Dynamic viscosity at 20 ºC: | 1.06 cP |
| Kinematic viscosity at 20 ºC: | 1.15 mm²/s |
| Kinematic viscosity at 40 ºC: | Non-applicable * |
| Concentration: | Non-applicable * |
| pH: | Non-applicable * |
| Vapour density at 20 ºC: | Non-applicable * |
| Partition coefficient n-octanol/water 20 ºC: | Non-applicable * |
| Solubility in water at 20 ºC: | Non-applicable * |
| Solubility properties: | Dispersible |
| Decomposition temperature: | Non-applicable * |
| Melting point/freezing point: | Non-applicable * |
| Flammability: | |
| Flash Point: | ≥24 ºC |
| Flammability (solid, gas): | Non-applicable * |
| *Not relevant due to the nature of the product, not providing informatic | n property of its hazards. |



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| SECT | FION 9: PHYSICAL AND CHEMICAL PROPERTIES (cc | ontinued) |
|------|--|---------------------------------|
| | Autoignition temperature: | 399 ºC |
| | Lower flammability limit: | Not available |
| | Upper flammability limit: | Not available |
| | Particle characteristics: | |
| | Median equivalent diameter: | Non-applicable |
| 9.2 | Other information: | |
| | Information with regard to physical hazard classes: | |
| | Explosive properties: | Non-applicable * |
| | Oxidising properties: | Non-applicable * |
| | Corrosive to metals: | Non-applicable * |
| | Heat of combustion: | Non-applicable * |
| | Aerosols-total percentage (by mass) of flammable components: | Non-applicable * |
| | Other safety characteristics: | |
| | Surface tension at 20 ^o C: | Non-applicable * |
| | Refraction index: | Non-applicable * |
| | *Not relevant due to the nature of the product, not providing inform | nation property of its hazards. |

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity:

No hazardous reactions are expected because the product is stable under recommended storage conditions. See section 7.

10.2 Chemical stability:

Chemically stable under the indicated conditions of storage, handling and use.

10.3 Possibility of hazardous reactions:

Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.

10.4 Conditions to avoid:

Applicable for handling and storage at room temperature:

| Not applicable Not applicable Bisk of combustion Avoid direct impact Not applicable | Shock and friction | Contact with air | Increase in temperature | Sunlight | Humidity |
|---|--------------------|------------------|-------------------------|---------------------|----------------|
| Not applicable Not applicable Not applicable | Not applicable | Not applicable | Risk of combustion | Avoid direct impact | Not applicable |

10.5 Incompatible materials:

| Acids | Water | Oxidising materials | Combustible materials | Others |
|--------------------|----------------|---------------------|-----------------------|-------------------------------|
| Avoid strong acids | Not applicable | Avoid direct impact | Not applicable | Avoid alkalis or strong bases |

10.6 Hazardous decomposition products:

See subsection 10.3, 10.4 and 10.5 to find out the specific decomposition products. Depending on the decomposition conditions, complex mixtures of chemical substances can be released: carbon dioxide (CO_2) , carbon monoxide and other organic compounds.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

The experimental information related to the toxicological properties of the product itself is not available

Dangerous health implications:

In case of exposure that is repetitive, prolonged or at concentrations higher than the recommended occupational exposure limits, adverse effects on health may result, depending on the means of exposure:

A- Ingestion (acute effect):





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SECTION 11: TOXICOLOGICAL INFORMATION (continued

| NN. | 11: TOXICOLOGICAL INFORMATION (continued) | | | |
|-------------|---|-----------------------|----------------------------|----------------------|
| В- | Acute toxicity: Based on available data, the classification criteria are not m for consumption. For more information see section 3 Corrosivity/Irritability: Based on available data, the classification criteria are hazardous for this effect. For more information see section 3. Inhalation (acute effect): | | | |
| | Acute toxicity : Based on available data, the classification criteria are not r for inhalation. For more information see section 3. Corrosivity/Irritability: Based on available data, the classification criteria are hazardous for this effect. For more information see section 3. | | | |
| C- | Contact with the skin and the eyes (acute effect): | | | |
| D- | Contact with the skin: Based on available data, the classification criteria ar hazardous for skin contact. For more information see section 3. Contact with the eyes: Produces eye damage after contact. CMR effects (carcinogenicity, mutagenicity and toxicity to reproduction): | e not met, as it do | es not contain substance | s classified as |
| | - Carcinogenicity: Based on available data, the classification criteria are not | met as it does not | contain substances class | ified as hazardous |
| | for the effects mentioned. For more information see section 3. | | . contain substances class | |
| | - Mutagenicity: Based on available data, the classification criteria are not me | et, as it does not co | ontain substances classifi | ed as hazardous |
| | for this effect. For more information see section 3. | | | |
| | - Reproductive toxicity: Based on available data, the classification criteria ar | e not met, as it do | es not contain substance | s classified as |
| | hazardous for this effect. For more information see section 3. | | | |
| E- | Sensitizing effects: | | | |
| _ | Respiratory: Based on available data, the classification criteria are not met with sensitising effects. For more information see section 3. Skin: Based on available data, the classification criteria are not met, as it d effect. For more information see section 3. | | | |
| F- | Specific target organ toxicity (STOT) - single exposure: | | | |
| | Based on available data, the classification criteria are not met. However, it comore information see section 3. | ontains substances | classified as hazardous f | or inhalation. For |
| G- | Specific target organ toxicity (STOT)-repeated exposure: | | | |
| H- | Specific target organ toxicity (STOT)-repeated exposure: Based on available contain substances classified as hazardous for this effect. For more informati Skin: Based on available data, the classification criteria are not met, as it d effect. For more information see section 3. Aspiration hazard: | on see section 3. | | |
| | Based on available data, the classification criteria are not met, as it does not more information see section 3. | contain substance | s classified as hazardous | for this effect. For |
| Oth | ner information: | | | |
| No | n-applicable | | | |
| 6 m- | cific toxicology information on the substances | | | |
| эре | ecific toxicology information on the substances: | | | |
| | Identification | 1 | Acute toxicity | Genus |
| pro | ppan-2-ol | LD50 oral | 5280 mg/kg | Rat |
| CA | S: 67-63-0 | LD50 dermal | 12800 mg/kg | Rat |
| | | LC50 inhalation | 72.6 mg/L (4 h) | Rat |
| But | tanone | LD50 oral | 4000 mg/kg | Rat |
| | S: 78-93-3 | LD50 dermal | 6400 mg/kg | Rabbit |
| | | LC50 inhalation | 23.5 mg/L (4 h) | Rat |
| | | | | |

ethanol

CAS: 64-17-5

LD50 oral

LD50 dermal

LC50 inhalation

6200 mg/kg

20000 mg/kg

124.7 mg/L (4 h)

Rat

Rabbit

Rat



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SECTION 12: ECOLOGICAL INFORMATION (continued

The experimental information related to the eco-toxicological properties of the product itself is not available

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12.1 Toxicity:

Acute toxicity:

| Identification | | Concentration | Species | Genus | |
|----------------|------|-------------------|-------------------------|------------|--|
| ethanol | LC50 | 11000 mg/L (96 h) | Alburnus alburnus | Fish | |
| CAS: 64-17-5 | EC50 | 9268 mg/L (48 h) | Daphnia magna | Crustacean | |
| | EC50 | 1450 mg/L (192 h) | Microcystis aeruginosa | Algae | |
| propan-2-ol | LC50 | 9640 mg/L (96 h) | Pimephales promelas | Fish | |
| CAS: 67-63-0 | EC50 | 13299 mg/L (48 h) | Daphnia magna | Crustacean | |
| | EC50 | 1000 mg/L (72 h) | Scenedesmus subspicatus | Algae | |
| Butanone | LC50 | 3220 mg/L (96 h) | Pimephales promelas | Fish | |
| CAS: 78-93-3 | EC50 | 5091 mg/L (48 h) | Daphnia magna | Crustacean | |
| | EC50 | 4300 mg/L (168 h) | Scenedesmus quadricauda | Algae | |

Chronic toxicity:

| Identification | | Concentration | Species | Genus |
|----------------|------|---------------|--------------------|------------|
| ethanol | NOEC | 250 mg/L | Danio rerio | Fish |
| CAS: 64-17-5 | NOEC | 2 mg/L | Ceriodaphnia dubia | Crustacean |

12.2 Persistence and degradability:

Substance-specific information:

| Identification | Deg | radability | Biodegradability | |
|----------------|----------|----------------|------------------|----------------|
| ethanol | BOD5 | Non-applicable | Concentration | 100 mg/L |
| CAS: 64-17-5 | COD | Non-applicable | Period | 14 days |
| | BOD5/COD | Non-applicable | % Biodegradable | 89 % |
| propan-2-ol | BOD5 | 1.19 g O2/g | Concentration | 100 mg/L |
| CAS: 67-63-0 | COD | 2.23 g O2/g | Period | 14 days |
| | BOD5/COD | 0.53 | % Biodegradable | 86 % |
| Butanone | BOD5 | 2.03 g O2/g | Concentration | Non-applicable |
| CAS: 78-93-3 | COD | 2.31 g O2/g | Period | 20 days |
| | BOD5/COD | 0.88 | % Biodegradable | 89 % |

12.3 Bioaccumulative potential:

Substance-specific information:

| | Identification | Bioa | Bioaccumulation potential | | |
|--------------|----------------|-----------|---------------------------|--|--|
| ethanol | | BCF | 3 | | |
| CAS: 64-17-5 | | Pow Log | -0.31 | | |
| | Potential | Low | | | |
| propan-2-ol | | BCF | 3 | | |
| CAS: 67-63-0 | | Pow Log | 0.05 | | |
| | | Potential | Low | | |
| Butanone | | BCF | 3 | | |
| CAS: 78-93-3 | | Pow Log | 0.29 | | |
| | | Potential | Low | | |

12.4 Mobility in soil:

| Identification | Absorp | Absorption/desorption | | Volatility | |
|----------------|-----------------|-----------------------|------------|--------------------|--|
| ethanol | Кос | 1 | Henry | 4.61E-1 Pa·m³/mol | |
| CAS: 64-17-5 | Conclusion | Very High | Dry soil | Yes | |
| | Surface tension | 2.339E-2 N/m (25 ºC) | Moist soil | Yes | |
| propan-2-ol | Кос | 1.5 | Henry | 8.207E-1 Pa·m³/mol | |
| CAS: 67-63-0 | Conclusion | Very High | Dry soil | Yes | |
| | Surface tension | 2.24E-2 N/m (25 ºC) | Moist soil | Yes | |





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| Identification | Absorp | Absorption/desorption | | Volatility | |
|----------------|-----------------|-----------------------|------------|----------------|--|
| Butanone | Кос | 30 | Henry | 5.77 Pa∙m³/mol | |
| CAS: 78-93-3 | Conclusion | Very High | Dry soil | Yes | |
| | Surface tension | 2.396E-2 N/m (25 ºC) | Moist soil | Yes | |

12.5 Results of PBT and vPvB assessment:

Product does not meet PBT/vPvB criteria

Other adverse effects: 12.6

Not described

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods:

Type of waste:

Non-applicable

Waste management (disposal and evaluation):

Consult the authorized waste service manager on the assessment and disposal operations in accordance The Waste Regulations 2011, 2011 No. 988. As under 15 01 of the code and in case the container has been in direct contact with the product, it will be processed the same way as the actual product. Otherwise, it will be processed as non-dangerous residue. Waste should not be disposed of to drains. See paragraph 6.2.

Regulations related to waste management:

In accordance with Annex II of UK REACH the provisions related to waste management are stated:

UK legislation: The Waste Regulations 2011.

Transport of dangerous goods by land:

| With regard t | 2023 | and | RID | 2023 |
|---------------|------|-----|-----|------|
| withitegalut | 2023 | anu | NID | 2023 |

| | 14.1 | UN number: | UN1993 | | |
|--|------|---|------------------------------------|--|--|
| ste | 14.2 | UN proper shipping name: | FLAMMABLE LIQUID, N.O.S. (ethanol) | | |
| $\langle \underline{\mathbf{c}} \rangle$ | 14.3 | Transport hazard class(es): | 3 | | |
| | | Labels: | 3 | | |
| 3 | 14.4 | Packing group: | III | | |
| • | 14.5 | Environmental hazards: | No | | |
| | 14.6 | Special precautions for user | | | |
| | | Tunnel restriction code: | D/E | | |
| | | Physico-Chemical properties: | see section 9 | | |
| | | Limited quantities: | 5 L | | |
| | 14.7 | Transport in bulk according to Annex II of Marpol and the IBC Code: | Non-applicable | | |
| Transport of dangerous goods by sea: | | | | | |
| With regard to IMDG 40-20: | | | | | |





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|--|--|--|--|--|--|
| SECTION 14: TRANSPORT INFORMATION (continued) | | | | | |
| 14.1 14.2 14.3 | UN number: UN proper shipping name: Transport hazard class(es): Labels: | UN1993 FLAMMABLE LIQUID, N.O.S. (ethanol) 3 3 | | | |
| | Packing group: | 3 | | | |
| 14.5 | Marine pollutant: | No | | | |
| 14.6 | Special precautions for user | | | | |
| | Special regulations: | 274, 223, 955 | | | |
| | EmS Codes: | F-E, S-E | | | |
| | Physico-Chemical properties: | see section 9 | | | |
| | Limited quantities: | 5 L | | | |
| | Segregation group: | Non-applicable | | | |
| 14.7 | Transport in bulk according to Annex II of Marpol and the IBC Code: | Non-applicable | | | |
| Transport of dangerous g | oods by air: | | | | |
| With regard to IATA/ICAO 2023: | | | | | |
| 14.1 | UN number: | UN1993 | | | |
| 14.2 | UN proper shipping name: | FLAMMABLE LIQUID, N.O.S. (ethanol) | | | |
| 14.3 | Transport hazard class(es): | 3 | | | |
| | Labels: | 3 | | | |
| 3 14.4 | Packing group: | III | | | |
| 14.5 | Environmental hazards: | No | | | |
| 14.6 | Special precautions for user | | | | |
| | Physico-Chemical properties: | see section 9 | | | |
| 14.7 | Transport in bulk according to Annex II of Marpol and the IBC Code: | Non-applicable | | | |
| SECTION 15: REGULATORY IN | FORMATION | | | | |
| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture: | | | | | |

- Substances listed in UK candidate list of substances of very high concern (SVHCs): Non-applicable

- Substances listed in UK REACH Authorisation List (Annex 14): Non-applicable

Restrictions to commercialisation and the use of certain dangerous substances and mixtures (Annex XVII UK REACH, etc):

Shall not be used in:

-ornamental articles intended to produce light or colour effects by means of different phases, for example in ornamental lamps and ashtrays, -tricks and jokes,

-games for one or more participants, or any article intended to be used as such, even with ornamental aspects.

Specific provisions in terms of protecting people or the environment:

It is recommended to use the information included in this safety data sheet as a basis for conducting workplace-specific risk assessments in order to establish the necessary risk prevention measures for the handling, use, storage and disposal of this product.

Other legislation:

The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2020. Control of Substances Hazardous to Health Regulations 2002 (as amended)

EH40/2005 Workplace exposure limits.

COSHH-SR24 Storing chemical products (small scale).

COSHH-SR2 Diluting chemical concentrates.

COSHH-SR4 Manual cleaning and disinfecting surfaces.

The Product Safety and Metrology etc. (Amendment etc.) (EU Exit) Regulations 2019: SCHEDULE 34 - Amendment of Regulation (EC) No 1223/2009 and related amendments.

The Detergents (Amendment) (EU Exit) Regulations 2020.





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SECTION 16: OTHER INFORMATION

Legislation related to safety data sheets:

This safety data sheet has been designed in accordance with ANNEX II-The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020.

Texts of the legislative phrases mentioned in section 2:

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H319: Causes serious eye irritation.

H226: Flammable liquid and vapour.

Texts of the legislative phrases mentioned in section 3:

The phrases indicated do not refer to the product itself; they are present merely for informative purposes and refer to the individual components which appear in section 3

GB CLP Regulation:

Eye Irrit. 2: H319 - Causes serious eye irritation. Flam. Liq. 2: H225 - Highly flammable liquid and vapour. STOT SE 3: H336 - May cause drowsiness or dizziness.

Classification procedure:

Eye Irrit. 2: Calculation method Flam. Liq. 3: Calculation method (2.6.4.3)

Advice related to training:

Training is recommended in order to prevent industrial risks for staff using this product and to facilitate their comprehension and interpretation of this safety data sheet, as well as the label on the product.

Principal bibliographical sources:

http://echa.europa.eu

http://eur-lex.europa.eu

Abbreviations and acronyms:

ADR: European agreement concerning the international carriage of dangerous goods by road IMDG: International maritime dangerous goods code IATA: International Air Transport Association ICAO: International Civil Aviation Organisation COD: Chemical Oxygen Demand BOD5: 5day biochemical oxygen demand BCF: Bioconcentration factor LD50: Lethal Dose 50 LC50: Lethal Concentration 50 EC50: Effective concentration 50 LOgPOW: Octanolwater partition coefficient Koc: Partition coefficient of organic carbon UFI: unique formula identifier IARC: International Agency for Research on Cancer

The information contained in this safety data sheet is based on sources, technical knowledge and current legislation at UK, without being able to guarantee its accuracy. This information cannot be considered a guarantee of the properties of the product, it is simply a description of the security requirements. The occupational methodology and conditions for users of this product are not within our awareness or control, and it is ultimately the responsibility of the user to take the necessary measures to obtain the legal requirements concerning the manipulation, storage, use and disposal of chemical products. The information on this safety data sheet only refers to this product, which should not be used for needs other than those specified.