

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830 - United Kingdom (UK)

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

#### 1.1 Product identifier

Product name : Hempel's Brilliant Gloss  
Product identity : 5320021401  
Product type : Silicone alkyd paint

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

Field of application : yacht.  
Identified uses : Consumer applications, Used by spraying.

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

Company details : Hempel UK Ltd  
Berwyn House, The Pavilions  
Llantarnam Park  
Cwmbran  
South Wales NP44 3FD  
Telephone: 01633 833600  
hempel@hempel.com

#### 1.4 Emergency telephone number

Emergency telephone number (with hours of operation)  
  
01633 833600 (08.00 - 17.00)  
See Section 4 of the safety data sheet (first aid measures).

Date of issue : 2 July 2020  
Date of previous issue : No previous validation.

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

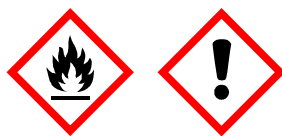
#### Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Flam. Liq. 3, H226 FLAMMABLE LIQUIDS  
STOT SE 3, H336 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects)  
Aquatic Chronic 3, H412 LONG-TERM (CHRONIC) AQUATIC HAZARD

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

Hazard pictograms :



Signal word : Warning  
Hazard statements : H226 - Flammable liquid and vapour.  
H336 - May cause drowsiness or dizziness.  
H412 - Harmful to aquatic life with long lasting effects.

Precautionary statements :

General : If medical advice is needed, have product container or label at hand. Keep out of reach of children.  
Prevention : Avoid breathing vapours, spray or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use only outdoors or in a well-ventilated area.  
Response : In case of fire: Use alcohol-resistant foam to extinguish.  
Storage : Keep cool. Store locked up.  
Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.  
Hazardous ingredients : hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics  
Supplemental label elements : Contains bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine. May produce an allergic reaction. Repeated exposure may cause skin dryness or cracking.

#### Special packaging requirements

Containers to be fitted with child-resistant fastenings : Not applicable.

### SECTION 2: Hazards identification

Tactile warning of danger : Not applicable.

#### 2.3 Other hazards

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.

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

| Product/ingredient name                                                                                         | Identifiers                                                               | %         | Regulation (EC) No. 1272/2008 [CLP]                                                | Type    |
|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------|---------|
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics                                             | REACH #: 01-2119463258-33<br>EC: 919-857-5 (265-150-3)<br>CAS: 64742-48-9 | ≥25 - ≤50 | Flam. Liq. 3, H226<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>EUH066               | [1]     |
| bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate                                                                | EC: 255-437-1<br>CAS: 41556-26-7                                          | <1        | Skin Sens. 1, H317<br>Aquatic Acute 1, H400 (M=1)<br>Aquatic Chronic 1, H410 (M=1) | [1]     |
| trimethylolpropane                                                                                              | REACH #: 01-2119486799-10<br>EC: 201-074-9<br>CAS: 77-99-6                | ≤0.3      | Repr. 2, H361fd                                                                    | [1]     |
| zirconium octoate                                                                                               | REACH #: 01-2119979088-21<br>EC: 245-018-1<br>CAS: 22464-99-9             | ≤0.3      | Repr. 2, H361d (oral)                                                              | [1] [2] |
| Fatty acids, C18-unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine | REACH #: 01-2119970640-38<br>CAS: 162627-17-0                             | <0.1      | Skin Sens. 1A, H317                                                                | [1]     |
|                                                                                                                 |                                                                           |           | See Section 16 for the full text of the H statements declared above.               |         |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

#### Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit, see section 8.
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [6] Additional disclosure due to company policy

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

|                              |                                                                                                                                                                                                                                                                                                              |
|------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| General :                    | In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.<br>If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 112 and give immediate treatment (first aid).                                                |
| Eye contact :                | Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. In all cases of doubt, or when symptoms persist, seek medical attention.                                                                     |
| Inhalation :                 | Remove to fresh air. Keep person warm and at rest. If unconscious, place in recovery position and seek medical advice.                                                                                                                                                                                       |
| Skin contact :               | Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.                                                                                                                                                           |
| Ingestion :                  | If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting unless directed to do so by medical personnel. Lower the head so that vomit will not re-enter the mouth and throat.                                                     |
| 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. |

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

##### Potential acute health effects

Eye contact : No known significant effects or critical hazards.

### SECTION 4: First aid measures

Inhalation : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness.  
Skin contact : No known significant effects or critical hazards.  
Ingestion : Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

Eye contact : No specific data.  
Inhalation : Adverse symptoms may include the following:  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness  
Skin contact : No specific data.  
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

Extinguishing media : Recommended: alcohol resistant foam, CO<sub>2</sub>, powders, water spray.  
Not to be used : waterjet.

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

Hazards from the substance or mixture : 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. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous combustion products : Decomposition products may include the following materials: carbon oxides metal oxide/oxides

#### 5.3 Advice for firefighters

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. Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses. 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

Exclude sources of ignition and be aware of explosion hazard. Ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8. No action shall be taken involving any personal risk or without suitable training. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

#### 6.2 Environmental precautions

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material.

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

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 (see Section 13). Use spark-proof tools and explosion-proof equipment. Contaminated absorbent material may pose the same hazard as the spilt product.

#### 6.4 Reference to other sections

### SECTION 6: Accidental release measures

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

#### 7.1 Precautions for safe handling

Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits. In addition, the product should be used only in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap. No sparking tools should be used.

Avoid inhalation of vapour, dust and spray mist. Avoid contact with skin and eyes. Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Appropriate personal protective equipment: see Section 8. Always keep in containers made from the same material as the original one.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a cool, well-ventilated area away from incompatible materials and ignition sources. Keep out of the reach of children. Keep away from: Oxidizing agents, strong alkalis, strong acids. No smoking. Prevent unauthorized access. Containers that are opened must be carefully resealed and kept upright to prevent leakage.

#### 7.3 Specific end use(s)

See separate Product Data Sheet for recommendations or industrial sector specific solutions.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

| Product/ingredient name | Exposure limit values                                                                                                                                   |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| zirconium octoate       | <b>EH40/2005 WELs (United Kingdom (UK), 8/2018).</b><br>STEL: 10 mg/m <sup>3</sup> , (as Zr) 15 minutes.<br>TWA: 5 mg/m <sup>3</sup> , (as Zr) 8 hours. |

#### Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### Derived effect levels

Not applicable.

#### Predicted effect concentrations

Not applicable.

#### 8.2 Exposure controls

##### Appropriate engineering controls

Arrange sufficient ventilation by local exhaust ventilation and good general ventilation to keep the airborne concentrations of vapors or dust lowest possible and below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

##### Individual protection measures

General :

Gloves must be worn for all work that may result in soiling. Apron/coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. Safety eyewear should be used when there is a likelihood of exposure.



### SECTION 8: Exposure controls/personal protection

|                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Hygiene measures :       | Wash hands, forearms, and face thoroughly after handling compounds and before eating, smoking, using lavatory, and at the end of day.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 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: safety glasses with side-shields.                                                                                                                                                                                                                                                                                                                                       |
| Hand protection :        | <p>Wear chemical-resistant gloves (tested to EN374) in combination with 'basic' employee training. The quality of the chemical-resistant protective gloves must be chosen as a function of the specific workplace concentrations and quantity of hazardous substances.</p> <p>Since the actual work situation is unknown. Supplier of gloves should be contacted in order to find the appropriate type. Below listed glove(s) should be regarded as generic advice:</p> <p>Recommended: Silver Shield / Barrier / 4H gloves, nitrile rubber, polyvinyl alcohol (PVA), Viton®<br/>Short term exposure: neoprene rubber, butyl rubber, natural rubber (latex), polyvinyl chloride (PVC)</p> |
| Body protection :        | <p>Personal protective equipment for the body should be selected based on the task being performed and the risks involved handling this product.</p> <p>Wear suitable protective clothing. Always wear protective clothing when spraying.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Respiratory protection : | Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. If working areas have insufficient ventilation: When the product is applied by means that will not generate an aerosol such as, brush or roller wear half or totally covering mask equipped with gas filter of type A, when grinding use particle filter of type P. Be sure to use an approved/certified respirator or equivalent.                                        |

#### 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

#### 9.1 Information on basic physical and chemical properties

|                                                |                                                                                                                                 |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| Physical state :                               | Liquid.                                                                                                                         |
| Colour :                                       | Cream                                                                                                                           |
| Odour :                                        | Solvent-like                                                                                                                    |
| pH :                                           | Testing not relevant or not possible due to nature of the product.                                                              |
| Melting point/freezing point :                 | -66°C This is based on data for the following ingredient: hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics   |
| Boiling point/boiling range :                  | Testing not relevant or not possible due to nature of the product.                                                              |
| Flash point :                                  | Closed cup: 41°C (105.8°F)                                                                                                      |
| Evaporation rate :                             | Testing not relevant or not possible due to nature of the product.                                                              |
| Flammability :                                 | Not available.                                                                                                                  |
| Lower and upper explosive (flammable) limits : | 1.4 - 7.6 vol %                                                                                                                 |
| Vapour pressure :                              | 0.2 kPa This is based on data for the following ingredient: hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics |
| Vapour density :                               | Testing not relevant or not possible due to nature of the product.                                                              |
| Specific gravity :                             | 1.191 g/cm <sup>3</sup>                                                                                                         |
| Solubility(ies) :                              |                                                                                                                                 |
| Partition coefficient (LogKow) :               | Testing not relevant or not possible due to nature of the product.                                                              |
| Auto-ignition temperature :                    | Lowest known value: 280 - 470°C (536 - 878°F) (hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics).            |
| Decomposition temperature :                    | Testing not relevant or not possible due to nature of the product.                                                              |
| Viscosity :                                    | Aspiration hazard (H304) Not classified. Testing not relevant due to nature of the product.                                     |
| Explosive properties :                         | Testing not relevant or not possible due to nature of the product.                                                              |
| Oxidising properties :                         | Testing not relevant or not possible due to nature of the product.                                                              |

#### 9.2 Other information

|                          |                        |
|--------------------------|------------------------|
| Solvent(s) % by weight : | Weighted average: 32 % |
|--------------------------|------------------------|

### SECTION 9: Physical and chemical properties

|                     |                              |
|---------------------|------------------------------|
| Water % by weight : | Weighted average: 0 %        |
| VOC content :       | 380.6 g/l                    |
| TOC Content :       | Weighted average: 339 g/l    |
| Solvent Gas :       | Weighted average: 0.064 m³/l |

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

#### 10.2 Chemical stability

The product is stable.

#### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

#### 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

#### 10.6 Hazardous decomposition products

When exposed to high temperatures (i.e. in case of fire) harmful decomposition products may be formed:

Decomposition products may include the following materials: carbon oxides metal oxide/oxides

### SECTION 11: Toxicological information

#### 11.1 Information on toxicological effects

Exposure to component solvent vapor concentrations may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Solvents may cause some of the above effects by absorption through the skin. Symptoms and signs include headaches, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin. If splashed in the eyes, the liquid may cause irritation and reversible damage. Accidental swallowing may cause stomach pain. Chemical lung inflammation may occur if the product is taken into the lungs via vomiting.

#### Acute toxicity

| Product/ingredient name                                                                                              | Result                          | Species | Dose        | Exposure |
|----------------------------------------------------------------------------------------------------------------------|---------------------------------|---------|-------------|----------|
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | LD50 Oral                       | Rat     | >2000 mg/kg | -        |
|                                                                                                                      | LD50 Dermal                     | Rat     | >2000 mg/kg | -        |
| trimethylolpropane zirconium octoate                                                                                 | LD50 Oral                       | Rat     | >2000 mg/kg | -        |
|                                                                                                                      | LD50 Oral                       | Rat     | 14100 mg/kg | -        |
|                                                                                                                      | LC50 Inhalation Dusts and mists | Rat     | >8800 mg/m³ | 1 hours  |
|                                                                                                                      | LD50 Dermal                     | Rabbit  | >2000 mg/kg | -        |
|                                                                                                                      | LD50 Oral                       | Rat     | >2000 mg/kg | -        |

#### 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 |
|-------------------------|------------|--------------|------------------------|---------------------------|-----------------------------------|
| trimethylolpropane      | 14100      |              |                        |                           |                                   |

#### Irritation/Corrosion

| Product/ingredient name                                             | Result               | Species | Score | Exposure |
|---------------------------------------------------------------------|----------------------|---------|-------|----------|
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | Eyes - Mild irritant | Rabbit  | -     | -        |

#### Sensitiser



### SECTION 11: Toxicological information

| Product/ingredient name                          | Route of exposure | Species    | Result      |
|--------------------------------------------------|-------------------|------------|-------------|
| bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | skin              | Guinea pig | Sensitising |

#### Mutagenic effects

No known significant effects or critical hazards.

#### Carcinogenicity

No known significant effects or critical hazards.

#### Reproductive toxicity

No known significant effects or critical hazards.

#### Teratogenic effects

No known significant effects or critical hazards.

#### Specific target organ toxicity (single exposure)

| Product/ingredient name                                             | Category   | Route of exposure | Target organs    |
|---------------------------------------------------------------------|------------|-------------------|------------------|
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | Category 3 |                   | Narcotic effects |

#### Specific target organ toxicity (repeated exposure)

| Product/ingredient name                  | Category | Route of exposure | Target organs |
|------------------------------------------|----------|-------------------|---------------|
| No known data available in our database. |          |                   |               |

#### Aspiration hazard

| Product/ingredient name                                             | Result                         |
|---------------------------------------------------------------------|--------------------------------|
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | ASPIRATION HAZARD - Category 1 |

#### Information on likely routes of exposure

Routes of entry anticipated: Oral, Dermal, Inhalation.

#### Potential chronic health effects

Sensitisation : Contains bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate. May produce an allergic reaction.

Other information : No additional known significant effects or critical hazards.

### SECTION 12: Ecological information

#### 12.1 Toxicity

Do not allow to enter drains or watercourses. Harmful to aquatic life with long lasting effects.

| Product/ingredient name                          | Result                           | Species                    | Exposure |
|--------------------------------------------------|----------------------------------|----------------------------|----------|
| bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate | Acute EC50 1.68 mg/l             | Aquatic plants             | 72 hours |
|                                                  | Acute LC50 0.97 mg/l Fresh water | Fish - Lepomis macrochirus | 96 hours |

#### 12.2 Persistence and degradability

| Product/ingredient name                                                                  | Test                                                            | Result                   | Dose             | Inoculum |
|------------------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------|------------------|----------|
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics<br>zirconium octoate | OECD 301F Ready Biodegradability - Manometric Respirometry Test | 80 % - Readily - 28 days | -                | -        |
|                                                                                          |                                                                 | 99 % - Readily - 28 days | 20 mg/l          | -        |
| Product/ingredient name                                                                  | Aquatic half-life                                               | Photolysis               | Biodegradability |          |
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics<br>zirconium octoate | -                                                               | -                        | Readily          |          |
|                                                                                          | -                                                               | -                        | Readily          |          |

#### 12.3 Bioaccumulative potential

### SECTION 12: Ecological information

| Product/ingredient name                                             | LogP <sub>ow</sub> | BCF       | Potential |
|---------------------------------------------------------------------|--------------------|-----------|-----------|
| hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics | 5 - 6.7            | 10 - 2500 | high      |
| trimethylolpropane                                                  | -0.47              | <1        | low       |
| zirconium octoate                                                   | -                  | 2.96      | low       |

#### 12.4 Mobility in soil

Soil/water partition coefficient (K<sub>oc</sub>) : No known data available in our database.

Mobility :

No known data available in our database.

#### 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 Other adverse effects

No known significant effects or critical hazards.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

The generation of waste should be avoided or minimised wherever possible. Residues of the product is listed as hazardous waste. Dispose of according to all state and local applicable regulations. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Spillage, remains, discarded clothes and similar should be discarded in a fireproof container.

European waste catalogue no. (EWC) is given below.




European waste catalogue (EWC) : 08 01 11\*

#### Packaging

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.

### SECTION 14: Transport information

Transport may take place according to national regulation or ADR for transport by road, RID for transport by train, IMDG for transport by sea, IATA for transport by air.

|                      | 14.1<br>UN no. | 14.2<br>Proper shipping name | 14.3<br>Transport hazard class(es)                                                       | 14.4<br>PG* | 14.5<br>Env* | Additional information                 |
|----------------------|----------------|------------------------------|------------------------------------------------------------------------------------------|-------------|--------------|----------------------------------------|
| <b>ADR/RID Class</b> | UN1263         | PAINT                        | 3<br> | III         | No.          | <b>Tunnel code</b> (D/E)               |
| <b>IMDG Class</b>    | UN1263         | PAINT                        | 3<br> | III         | No.          | <b>Emergency schedules</b><br>F-E, S-E |
| <b>IATA Class</b>    | UN1263         | PAINT                        | 3<br> | III         | No.          | -                                      |

PG\* : Packing group

Env.\* : Environmental hazards

#### 14.6 Special precautions for user

**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

#### 14.7 Transport in bulk according to IMO instruments

Not applicable.



### SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorisation - Substances of very high concern

##### Annex XIV

None of the components are listed.

##### Substances of very high concern

None of the components are listed.

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

Not applicable.

##### Other EU regulations

**Seveso category** This product is controlled under the Seveso III Directive.

| Seveso category                                             |
|-------------------------------------------------------------|
| P5c: Flammable liquids 2 and 3 not falling under P5a or P5b |

#### 15.2 Chemical safety assessment

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

### SECTION 16: Other information

Abbreviations and acronyms :

ATE = Acute Toxicity Estimate  
 CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]  
 EUH statement = CLP-specific Hazard statement  
 RRN = REACH Registration Number  
 DNEL = Derived No Effect Level  
 PNEC = Predicted No Effect Concentration

Full text of abbreviated H statements :

H226 Flammable liquid and vapour.  
 H304 May be fatal if swallowed and enters airways.  
 H317 May cause an allergic skin reaction.  
 H336 May cause drowsiness or dizziness.  
 H361d Suspected of damaging the unborn child.  
 H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.  
 H400 Very toxic to aquatic life.  
 H410 Very 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] :

Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1  
 Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1  
 Aquatic Chronic 3 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3  
 Asp. Tox. 1 ASPIRATION HAZARD - Category 1  
 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 3  
 Repr. 2 REPRODUCTIVE TOXICITY - Category 2  
 Skin Sens. 1 SKIN SENSITISATION - Category 1  
 Skin Sens. 1A SKIN SENSITISATION - Category 1A  
 STOT SE 3 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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

| Classification                                                                                                                 | Justification                                                     |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|
| FLAMMABLE LIQUIDS<br>SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE (Narcotic effects)<br>LONG-TERM (CHRONIC) AQUATIC HAZARD | On basis of test data<br>Calculation method<br>Calculation method |

#### Notice to reader

🔍 Indicates information that has changed from previously issued version.

The information contained in this safety data sheet is based on the present state of knowledge and EU and national legislation. It provides guidance on health, safety and environmental aspects for handling the product in a safe way and should not be construed as any guarantee of the technical performance or suitability for particular applications.

It is always the duty of the user/employer to ascertain that the work is planned and carried out in accordance with the national regulations.