



# MATERIAL SAFETY DATA SHEET

Revised 29<sup>th</sup> October, 2020

## RED OXIDE METAL PRIMER

### SECTION 1: IDENTIFICATION OF SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1 Product identifier

Product name                                 RED OXIDE METAL PRIMER

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

Identified uses                                 Paint

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

Supplier   R.K. & J. Jones Ltd  
  Southery Road,  
  Feltwell,  
  Thetford, Norfolk, IP26 4EH.  
  +44 (0)1842828101  
  +44 (0)1842828171

#### 1.4 Emergency telephone number

(01842) 828101 Monday–Friday 08.30 – 17.00 hrs, 01223 968282 Out of office hours.

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Classification (EC 1272/2008)

Physical Hazards	Flam.Liq.3–H226
Health Hazards	EUH066; STOT SE 3–H336
Environment	Not Classified

#### 2.2 Label Elements

Pictogram



Signal Word   Warning

Hazard Statements                                 H226   Flammable liquid and vapour  
  H336   May cause drowsiness or dizziness

Precautionary Statements	<p>P101 If medical advice is needed, have product container or label at hand.</p> <p>P102 Keep out of reach of children</p> <p>P261 Avoid breathing vapour/ spray.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P280 Wear protective gloves/protective clothing/eye protection/face Protection.</p> <p>P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.</p> <p>P501 Dispose of contents/container to special waste collection point.</p>
Supplemental label Information	<p>EUH066 Repeated exposure may cause skin dryness or cracking.</p> <p>EUH208 Contains 2-BUTANONE OXIME, Cobalt containing polymer. May produce an allergic reaction.</p>
Contains	HYDROCARBONS, C9-C11, <2% AROMATICS
Supplementary Precautionary Statements	<p>P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.</p> <p>P240 Ground/bond container and receiving equipment</p> <p>P241 Use explosion-proof electrical equipment</p> <p>P242 Use only non-sparking tools</p> <p>P243 Take precautionary measures against static discharge</p> <p>P370+378 – In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.</p> <p>P303+361+353 – IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.</p> <p>P304+340 – IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</p> <p>P312 Call a POISON CENTRE or doctor if you feel unwell.</p> <p>P403+233 – Store in a well ventilated place. Keep container tightly closed.</p> <p>P403+235 – Store in a well ventilated place. Keep cool.</p> <p>P405 Store locked up</p>

### **2.3 Other hazards**

This substance is not classified as PBT/vPvB by current EU criteria.

## **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.2.Mixtures**

<b>Calcium Carbonate</b>		<b>30-60%</b>
CAS number: 1317-65-3	EC number: 215-279-6	
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -	
<b>HYDROCARBONS, C9-C11, &lt;2% AROMATICS</b>		<b>10-30%</b>
CAS number: —	EC number: 919-857-5	REACH registration number: 01-2119463258-33-XXXX
<b>Classification</b> Flam. Liq. 3 - H226 STOT SE 3 - H336 Asp. Tox. 1 - H304	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R65. R10,R66,R67.	
<b>Red Iron Oxide</b>		<b>1-5%</b>
CAS number: 1309-37-1		
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -	
<b>Barium Sulphate</b>		<b>1-5%</b>
CAS number: 7727-43-7	EC number: 231-784-4	REACH registration number: 01-2119491274-35-0001
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -	
<b>2-METHYLPENTANE-2,4-DIOL</b>		<b>&lt;1%</b>
CAS number: 107-41-5	EC number: 203-489-0	
<b>Classification</b> Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xi;R36/38	
<b>PHTHALIC ANHYDRIDE</b>		<b>&lt;1%</b>
CAS number: 85-44-9	EC number: 201-607-5	REACH registration number: 01-2119457017-41-0000
<b>Classification</b> Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Resp. Sens. 1 - H334 Skin Sens. 1 - H317 STOT SE 3 - H335	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R22 R42/43 Xi;R37/38,R41	

<b>Dipropylene Glycol Methyl Ether</b> <1%		
CAS number: 34590-94-8	EC number: 252-104-2	REACH registration number: 01-2119450011-60-XXXX
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -	
<b>2,6-Di-tert-butyl-p-cresol</b> <1%		
CAS number: 128-37-0	EC number: 204-881-4	REACH registration number: 01-2119565113-46-xxxx
M factor (Acute) = 1		
<b>Classification</b> Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	<b>Classification (67/548/EEC or 1999/45/EC)</b> N;R50/53.	

The full text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### Composition Comments

The Product contains organic solvents.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General information

Get medical attention immediately, us general first aid, rest, warmth and fresh air. Do not give them anything to drink if they are unconscious. Show this Safety Data Sheet to the medical personnel.

#### Inhalation

Remove affected person immediately from source of contamination. Move to fresh air and keep warm and allow to rest in a position comfortable for breathing. Maintain an open airway.

Loosen tight clothing such as collar, tie or belt. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on the side in the recovery position and ensure breathing can take place.

#### Ingestion

Rinse mouth thoroughly with water. Remove any dentures. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

#### Skin contact

Remove contaminated clothing immediately and wash skin with soap and water.

#### Eye contact

Rinse immediately with plenty of water. Make sure to remove any contact lenses from the eyes before rinsing. Continue to rinse for at least 15 minutes and get medical attention.

#### Protection of first aiders

First aid personnel should wear appropriate protective equipment during any rescue.

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

<b>General information</b>	See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Prolonged inhalation of high concentrations may damage respiratory system. During application and drying, solvent vapours will be emitted. Vapours in high concentrations are narcotic.
<b>Ingestion</b>	Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.
<b>Skin contact</b>	Prolonged contact may cause dryness of the skin. Discoloration of the skin.
<b>Eye contact</b>	May cause temporary eye irritation.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

Notes for the doctor      Treat symptomatically.

### **SECTION 5: FIRE FIGHTING MEASURES**

#### **5.1 Extinguishing media**

##### ***Suitable extinguishing media***

Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire

##### ***Unsuitable extinguishing media***

Do not use water jet as an extinguisher, as this will spread the fire.

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

##### ***Specific hazards***

FLAMMABLE. Solvent vapours may form explosive mixtures with air. Containers can burst violently or explode when heated, due to excessive pressure build-up.

##### ***Hazardous combustion products***

Thermal decomposition or combustion products may liberate carbon oxides and other toxic gases or vapours.

##### ***Unusual Fire & Explosion Hazards***

FLAMMABLE. Solvent vapours may form explosive mixtures with air.

##### ***Specific hazards***

When heated and in case of fire, harmful vapours/gases may be formed.

#### **5.3 Advice for firefighters**

##### ***Protective equipment for fire-fighters.***

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

##### ***Special Fire Fighting Procedures***

Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from fire area if it is safe to do so without risk and keep away until after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect persons stopping the leak. Do not allow runoff to sewer, waterway or ground.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### **6.1 Personal precautions, protective equipment and emergency procedures**

No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage. Ensure procedures and training for emergency decontamination and disposal are in place. Do not touch or walk into spilled material. Provide adequate ventilation.

### **6.2 Environmental precautions**

Avoid discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable absorbent material. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

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

Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Small Spillages: Collect spillage. Large Spillages: Absorb spillage with non-combustible, absorbent material. The contaminated absorbent may pose the same hazard as the spilled material. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. For waste disposal, see Section 13.

### **6.4 Reference to other sections**

For personal protection, see section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For waste disposal, see Section 13.

## SECTION 7: HANDLING AND STORAGE

### **7.1 Precautions for safe handling**

Usage precautions

Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drinks and animal feeding stuffs. Handle all packages and containers carefully to minimise spills. Keep container tightly sealed when not in use. Avoid the formation of mists. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment.

Observe occupational exposure limits and minimise the risk of inhalation of vapours and mist. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Do not eat, drink or smoke when using this product. The Manual Handling Operations Regulations may apply to the handling of containers of this product. To assist employers, the following method of calculating the weight for any pack size is given. Take the pack size volume in litres and multiply this figure by the specific gravity value given in section 9. This will give the net weight of the coating in kilograms. Allowance will then have to be made for the immediate packaging to give an approximate gross weight.

Advice on general occupational hygiene

Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

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

#### Storage precautions

Store in closed original container at temperatures between 5°C and 25°C. Keep away from heat, sparks and open flame. Keep containers tightly closed. Keep upright. Store separated from: oxidising material. Alkalis. Acids.

#### Storage class

Flammable liquid storage. The storage and use of this product is subject to the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR). The requirements are given in the HSE Approved Code of Practice and Guidance, Storage and Dangerous Substances: DSEAR. Up to 250 litres of liquids with a flashpoint above 32C but below 55C may be kept in a workroom provided they are kept in closed containers in a marked, fire-resisting cupboard or bin. Larger quantities must be kept in a separate, marked storeroom conforming to the structural requirements contained in the HSE guidance note Storage of Flammable Liquids in Containers.

### **7.3 Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

#### Usage description

Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container.

## **SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

### **8.1 Control Parameters**

#### Occupational exposure limits

##### **Calcium Carbonate**

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

##### **Red Iron Oxide**

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

Short-term exposure limit (15-minute): WEL 10 mg/m<sup>3</sup>

as Fe

##### **Barium Sulphate**

Long-term exposure limit (8-hour TWA): 10 mg/m<sup>3</sup> inhalable dust

Long-term exposure limit (8-hour TWA): 4 mg/m<sup>3</sup> respirable dust

##### **2-METHYLPENTANE-2,4-DIOL**

Long-term exposure limit (8-hour TWA): WEL 25 ppm 123 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 25 ppm 123 mg/m<sup>3</sup>

##### **PHTHALIC ANHYDRIDE**

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> (Sen)

Short-term exposure limit (15-minute): WEL 12 mg/m<sup>3</sup> (Sen)

##### **Dipropylene Glycol Methyl Ether**

Long-term exposure limit (8-hour TWA): WEL 50 ppm 308 mg/m<sup>3</sup>

Sk

##### **2,6-Di-tert-butyl-p-cresol**

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin.

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**HYDROCARBONS, C9-C11, <2% AROMATICS**

DNEL	<p>Consumer – Oral; Long term systemic effects: 300 mg/kg/day</p> <p>Industry – Inhalation; Long term systemic effects: 1500 mg/m<sup>3</sup></p> <p>Industry – Dermal; Long term systemic effects: 300 mg/kg/day</p> <p>Consumer – Dermal; Long term systemic effects: 300 mg/kg/day</p> <p>Consumer – Inhalation; Long term systemic effects: 900 mg/m<sup>3</sup></p>
PNEC	No PNEC available. Substance is a hydrocarbon UVCB. Standard tests for this endpoint are intended for single substances and are not appropriate for the risk assessment of this complex substance.

**Dipropylene Glycol Methyl Ether (CAS: 34590-94-8)**

DNEL	<p>Industry – Dermal; Long term : 65 mg/kg/day</p> <p>Industry – Inhalation; Long term : 310 mg/m<sup>3</sup></p> <p>Consumer – Dermal; Long term : 15 mg/kg/day</p> <p>Consumer – Inhalation; Long term : 37.2 mg/m<sup>3</sup></p> <p>Consumer – Oral; Long term : 1.67 mg/kg/day</p>
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PNEC	<p>Fresh water; 19 mg/l</p> <p>marine water; 1.9 mg/l</p> <p>STP; 4168 mg/l</p> <p>Sediment (Freshwater); 70.2 mg/kg</p> <p>Sediment (Marinewater); 7.02 mg/kg</p> <p>Soil; 2.74 mg/kg</p> <p>Intermittent release; 19 mg/l</p>
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**2,6-Di-tert-butyl-p-cresol (CAS: 128-37-0)**

DNEL	<p>Industry – Dermal; : 0.5 mg/kg/day</p> <p>Industry – Inhalation; : 3.5 mg/kg/day</p>
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PNEC	<p>– Fresh water; 0.000199 mg/l</p> <p>– Sediment; 0.0996 mg/l</p> <p>– Soil; 0.04769 mg/l</p> <p>– marine water; 0.0000199 mg/l</p>
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**8.2 Exposure controls**

Protective equipment

**Appropriate engineering controls**

Provide adequate ventilation. Good general ventilation should be adequate to control worker exposure to airborne contaminants. Personal, workplace environment 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. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimise worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimise exposure



**Hand protection**

To protect hands from chemicals, gloves should comply with European Standards EN388 and 374. As a general principle, exposure should be managed by means other than the provision of protective gloves. Manufacturer's performance data suggest that the optimum glove for use should be: Wear protective gloves made of the following material: Nitrile rubber. Thickness:  $\geq$  0.31 mm Permeation breakthrough time according to EN374 - class: (1-6) e.g. minimum 480 mins. Caution: The performance of gloves under actual working conditions can be significantly affected by many factors and the information provided according to EN374 may not accord with what is achieved in practice. We recommend that expert professional advice is sought that takes into account of the work processes and working environment applicable for each task where gloves are to be worn.

**Eye / Face protection**

Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Unless the assessment indicates a higher degree of protection is required, the following protection should be worn: Tight-fitting safety glasses.

**Other skin & body protection**

Wear appropriate clothing to prevent reasonably probable skin contact.

**Hygiene measures**

Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

**Respiratory protection**

Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14387. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140. Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. Wear a respirator fitted with the following cartridge: Gas filter, type A2.

**Environmental exposure controls**

Keep container tightly sealed when not in use. 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**

<b>Appearance</b>	Viscous coloured liquid
<b>Colour</b>	Red
<b>Odour</b>	Organic solvents
<b>Odour threshold</b>	Not determined
<b>pH</b>	Technically not feasible
<b>Melting point</b>	Not determined
<b>Initial boiling point and range</b>	Not determined.

<b>Flash point</b>	38 approx.°C Closed cup
<b>Evaporation rate</b>	Not determined
<b>Evaporation factor</b>	Not determined
<b>Upper/lower flammability or explosive limits</b>	: 0.8
<b>Other flammability</b>	Not determined.
<b>Vapour pressure</b>	Not determined.
<b>Vapour density (air=1)</b>	heavier than air
<b>Relative density</b>	1.55 approx. @@20°C
<b>Solubility</b>	Insoluble in water
<b>Partition coefficient</b>	No information available
<b>Auto-ignition temperature</b>	Not determined
<b>Decomposition Temperature</b>	Not determined
<b>Viscosity</b>	4.5 (Rot thinner) P @25°C
<b>Explosive properties</b>	Not determined
<b>Explosive under the influence of a flame</b>	Not considered to be explosive
<b>Oxidising properties</b>	Not determined

#### **9.2 Other information**

Volatile Organic Compound (VOC) This product contains a maximum VOC content of <500 g/litre

### **SECTION 10: STABILITY AND REACTIVITY**

#### **10.1 Reactivity**

No specific reactivity hazards associated with this product. See the other subsections of this section for further details.

#### **10.2 Chemical stability**

Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

#### **10.3 Possibility of hazardous reactions**

The following materials may react strongly with the product: Oxidising agents

#### **10.4 Conditions to avoid**

Avoid heat, flames and other sources of ignition. Containers can burst violently or explode when heated, due to excessive pressure build-up. Static electricity and formation of sparks must be prevented.

#### **10.5 Incompatible materials**

Materials to avoid. Strong alkalis. Strong acids. Strong oxidising substances.

#### **10.6 Hazardous decomposition products**

Does not decompose when used and stored as recommended. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

### **SECTION 11: TOXICOLOGICAL INFORMATION**

#### **11.1 Information on toxicological effects**

Toxicological effects      There is no data available on the mixture itself. The mixture has been assessed following the EC 1272/2008 regulation and classified for toxicological hazards accordingly. See Sections 2      and 3 for details.

Carcinogenicity              None of the ingredients are listed or exempt.  
IARC carcinogenicity

**Inhalation**

Prolonged inhalation of high concentrations may damage respiratory system. During application and drying, solvent vapours will be emitted. In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea.

**Ingestion**

Symptoms following overexposure may include the following: Nausea, vomiting. Diarrhoea.

**Skin Contact**

The product contains organic solvents. May be absorbed through the skin. Acts as a defatting agent on skin. May cause cracking of skin, and eczema..

**Eye Contact**

May cause temporary eye irritation.

**Medical Considerations**

Skin disorders and allergies. Avoid vomiting and normal rinse of stomach because of risk of aspiration.

**Toxicological information on ingredients****HYDROCARBONS, C9-C11, <2% AROMATICS****Acute toxicity - oral**

Acute toxicity oral (LD<sub>50</sub>mg/kg) 5,100.0

Species Rat

ATE oral (mg/kg) 5,100.0

**Acute toxicity - dermal**

Acute toxicity dermal (LD<sub>50</sub>mg/kg) 5,100.0

Species Rabbit

ATE dermal (mg/kg) 5,100.0

**Acute toxicity - inhalation**

Acute toxicity inhalation 5,100.0

(LC<sub>50</sub> vapours mg/l)

Species Rat

ATE inhalation (vapours mg/l) 5,100.0

**Skin corrosion/irritation**

Skin corrosion/irritation Not irritating

**Serious eye damage/irritation**

Serious eye damage/irritation Not irritating

**Respiratory sensitisation**

Respiratory sensitisation Not sensitising

**Skin sensitisation**

Skin sensitisation Not sensitising.

**Germ cell mutagenicity**

Genotoxicity - in vitro Chromosome aberration: Negative. This substance has no evidence of mutagenic properties.

**Carcinogenicity**

Carcinogenicity Based on available data the classification criteria are not met.

**Reproductive toxicity**

Reproductive toxicity fertility Fertility: - , Inhalation, Rat This substance has no evidence of toxicity to reproduction.

Reproductive toxicity development Developmental toxicity: - : , Inhalation, Rat This substance has no evidence of toxicity to reproduction

**Specific target organ toxicity - repeated exposure**

STOT – repeated exposure Not available.

Aspiration hazard

Aspiration hazard	Kinematic viscosity <= 20.5 mm <sup>2</sup> /s.
Inhalation	Vapours may cause drowsiness and dizziness. Central nervous system depression.
Ingestion	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
Skin contact	Product has a defatting effect on skin. May cause allergic contact eczema.
Eye contact	No specific health hazards known.
Route of exposure	Inhalation Dermal

## SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity There is no data available on the mixture itself. The mixture has been assessed following the EC 1272/2008 regulation and classified for toxicological hazards accordingly.

### 12.1 Toxicity

#### Ecological information on ingredients

##### HYDROCARBONS, C9-C11, <2% AROMATICS

Acute Toxicity – Fish	LC50 96 hours >1000mg/l Onchorhynchus mykiss (Rainbow trout) Substance did not cause acute toxicity to fish
Acute toxicity – aquatic invertebrates invertebrates	Substance did not cause acute toxicity to the freshwater EC <sub>50</sub> , 48 hours: >1000 mg/l, Daphnia magna
Acute toxicity – aquatic plants	EC <sub>50</sub> , > 72 hours: 1000 mg/l, Freshwater algae Substance did not cause acute toxicity to the freshwater green algae
Acute toxicity microorganisms	EC <sub>50</sub> , >: 100 mg/l, Activated sludge

#### Chronic aquatic toxicity

Chronic Toxicity – Fish Early life stage	NOEC 28 days 0.131 mg/l Onchorhynchus mykiss (Rainbow trout)
Chronic Toxicity – Aquatic Invertebrates	NOEC 28 days 0.23 mg/l Daphnia magna

### 12.2 Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

#### Ecological information on ingredients

##### HYDROCARBONS, C9-C11, <2% AROMATICS

<b>Persistence and degradability</b>	The product is readily biodegradable.
<b>Phototransformation</b>	Oxidises rapidly by photo-chemical reactions in air
<b>Biodegradation</b>	– 80 Degradation (%): 28 days Test – 301F Ready Biodegradability – Manometric Respiratory Test

### 12.3 Bio-accumulative potential

Bio-accumulative potential	No data available on bioaccumulation
Partition coefficient	No information available

**Ecological information on ingredients****HYDROCARBONS, C9-C11, <2% AROMATICS**

Bio-accumulative potential      The product contains potentially bioaccumulating substances.  
 Partition coefficient              log Pow: 5-6.7

**12.4 Mobility in soil**

**Mobility:**                              The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

**Ecological information in ingredients****HYDROCARBONS, C9-C11, <2% AROMATICS**

Mobility:

The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces. Readily absorbed into soil.

Absorption/Desorption Coefficient              Not available.

Surface tension                                      24.5 mN/m 20°C

Adsorption/Desorption Coefficient

Scientifically unjustified.

Volatilisation is dependent on Henry's Law constant (HLC) which is not applicable to complex substances.

**12.5 Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment              This product does not contain any substances classified as PBT/vPvB.

**Ecological information on ingredients****HYDROCARBONS, C9-C11, <2% AROMATICS**

Results of PBT and vPvB assessment              This substance is not classified as PBT or vPvB according to current EU criteria.

**12.6 Other adverse effects**

Other adverse effects                              None known

**Ecological information on ingredients**

Other adverse effects                              Not known

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1 Waste treatment methods**

General information

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. When handling waste, the safety precautions applying to handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods

Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers,

labelled with their contents. Waste packaging should be collected for reuse or recycling. Incineration or landfill should only be considered when recycling is not feasible.

#### Waste Class

When this coating, in its liquid state, as supplied, becomes a waste, it is categorised as hazardous Waste, with code 080111\* (SOLVENT BASED LIQUID WASTE) Part-used containers, not drained And/or rigorously scraped out and containing dried residues of the supplied coating, are categorised As hazardous waste, with code 080111\* (SOLVENT BASED LIQUID WASTE) If mixed with other Wastes, the above waste code may not be applicable. Used containers, drained and/or rigorously Scraped out and containing dry residues of the supplied coating, are categorised as non-hazardous Waste, with code 150102 (plastic packaging) or 150104 (metal packaging)

## SECTION 14: TRANSPORT INFORMATION

**General** For limited quantity packaging/limited load information, consult the relevant modal documentation using the data shown in this section.

### 14.1. UN number

UN No. (ADR/RID)	1263
UN No. (IMDG)	1263
UN No. (ICAO)	1263

### 14.2. UN proper shipping name

Proper shipping name (ADR/RID) PAINT, Contains Low Aromatic White Spirit, Class 3, PG III, (38 °C c.c.)

Proper shipping name (IMDG) PAINT

Proper shipping name (ICAO) PAINT

### 14.3. Transport hazard class(es)

ADR/RID class	3
IMDG class	3

### Transport labels



### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

### 14.6. Special precautions for user

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.

EmS	F-E, S-E
Tunnel restriction code	(D/E)

### 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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

## SECTION 15: REGULATORY INFORMATION

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

#### EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).  
 Commission Regulation (EU) No 2015/830 of 28 May 2015.  
 Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

#### Inventories

##### EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

## SECTION 16: OTHER HEALTH AND SAFETY INFORMATION

#### Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.  
 ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.  
 RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.  
 IATA: International Air Transport Association.  
 ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.  
 IMDG: International Maritime Dangerous Goods.  
 CAS: Chemical Abstracts Service.  
 ATE: Acute Toxicity Estimate.  
 LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.  
 LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).  
 EC<sub>50</sub>: 50% of maximal Effective Concentration.  
 PBT: Persistent, Bioaccumulative and Toxic substance.  
 vPvB: Very Persistent and Very Bioaccumulative.

#### Classification abbreviations and acronyms

Acute Tox. = Acute toxicity  
 Aquatic Acute = Hazardous to the aquatic environment (acute)  
 Aquatic Chronic = Hazardous to the aquatic environment (chronic)  
 Asp. Tox. = Aspiration hazard  
 Flam. Liq. = Flammable liquid  
 STOT RE = Specific target organ toxicity-repeated exposure  
 STOT SE = Specific target organ toxicity-single exposure

<b>Classification procedures according to Regulation (EC) 1272/2008</b>	STOT SE 3 - H336, STOT RE 1 - H372: Calculation method. Aquatic Chronic 3 - H412: Calculation method. Flam. Liq. 3 - H226: Expert judgement.
<b>Training advice</b>	Read and follow manufacturer's recommendations. Only trained personnel should use this material.
<b>Revision comments</b>	Issued in new format for Reach compliance in accordance with EC 1272/2008 Issued in accordance with Annex II to REACH, as amended by Commission Regulation (EU) No. 2015/830 Revision to sections 2, 8, 11 & 12 for reclassification of solvents.
<b>Issued by</b>	Technical Dept. (P.E.)
<b>Revision date</b>	20/06/2019
<b>Revision</b>	8.1
<b>Supersedes date</b>	04/05/2018
<b>SDS number</b>	10586
<b>SDS status</b>	Approved.

<b>Hazard statements in full</b>	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. EUH208 Contains 2-BUTANONE OXIME. May produce an allergic reaction.
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#### Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own use.