



## SAFETY DATA SHEET

### 428/G123 - METALASTIC, METAL PROTECTIVE PAINT - ALL COLOURS

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

##### 1.1. Product identifier

**Product name** 428/G123 - METALASTIC, METAL PROTECTIVE PAINT - ALL COLOURS  
**Product number** 428/G123/ -  
**UFI** UFI: 267P-S2YH-Q006-3M1X

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

**Identified uses** Paint.  
**Uses advised against** No specific uses advised against are identified.

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

<b>Supplier</b>	TEAL & MACKRILL LIMITED Lockwood Street HULL UK HU2 OHN +441482320194 (T) +441482219266 (F) info@teamac.co.uk	TEAL AND MACKRILL EU B.V. Zandvoortstaat 69 1976 BN IJMUIDEN THE NETHERLANDS +441482320194 (T) +441482219266 (F) info@teamac.co.uk
<b>Contact person</b>	Technical Department -, 08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri, email: info@teamac.co.uk	

##### 1.4. Emergency telephone number

**Emergency telephone** +44 (0) 1482 320194 Teamac (08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri)  
**SDS No.** 10647

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

###### Classification (EC 1272/2008)

**Physical hazards** Flam. Liq. 3 - H226  
**Health hazards** STOT SE 3 - H336  
**Environmental hazards** Not Classified

##### 2.2. Label elements

###### Hazard pictograms



**Signal word** Warning

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<b>Hazard statements</b>	H226 Flammable liquid and vapour. H336 May cause drowsiness or dizziness.
<b>Precautionary statements</b>	P101 If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P261 Avoid breathing vapour/ spray. P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P501 Dispose of contents/ container in accordance with national regulations.
<b>Supplemental label information</b>	EUH066 Repeated exposure may cause skin dryness or cracking.
<b>Contains</b>	HYDROCARBONS, C9-C11, <2% AROMATICS, HYDROCARBONS, C9, AROMATICS
<b>Supplementary precautionary statements</b>	P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P403+P235 Store in a well-ventilated place. Keep cool.

### 2.3. Other hazards

This substance is not classified as PBT or vPvB according to current EU criteria.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>HYDROCARBONS, C9-C11, &lt;2% AROMATICS</b>	<b>30-60%</b>
CAS number: —	EC number: 919-857-5
	REACH registration number: 01-2119463258-33-XXXX
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Flam. Liq. 3 - H226	Xn;R65. R10,R66,R67.
STOT SE 3 - H336	
Asp. Tox. 1 - H304	
<b>Yellow Iron Oxide</b>	<b>1-5%</b>
CAS number: 51274-00-1	EC number: 257-098-5
	REACH registration number: 01-2119454754-33-xxxx
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>
Not Classified	-

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<b>HYDROCARBONS, C9, AROMATICS</b>			<b>1-5%</b>
CAS number: —	EC number: 918-668-5	REACH registration number: 01-2119455851-35-xxxx	
<b>Classification</b> Flam. Liq. 3 - H226 STOT SE 3 - H335, H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R65. Xi;R37. N;R51/53. R10,R66,R67.		
<b>Red Iron Oxide</b>			<b>&lt;1%</b>
CAS number: 1309-37-1			
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -		
<b>C.I. Pigment Blue 15:3</b>			<b>&lt;1%</b>
CAS number: 147-14-8	EC number: 205-685-1	REACH registration number: 01-2119458771-32-0000	
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -		
<b>Barium Sulphate</b>			<b>&lt;1%</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>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b>			<b>&lt;1%</b>
CAS number: —	EC number: 918-481-9	REACH registration number: 01-2119457273-39-XXXX	
<b>Classification</b> Asp. Tox. 1 - H304			
<b>Titanium Dioxide</b>			<b>&lt;1%</b>
CAS number: 13463-67-7	EC number: 236-675-5	REACH registration number: 01-2119489379-17-xxxx	
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -		

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<b>2-METHYLPENTANE-2,4-DIOL</b> <1%		
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>Calcium bis(2-ethylhexanoate)</b> <1%		
CAS number: 136-51-6	EC number: 205-249-0	REACH registration number: 01-2119978297-19-0002
<b>Classification</b> Eye Dam. 1 - H318 Repr. 2 - H361d		
<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>PHTHALIC ANHYDRIDE</b> <1%		
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>Carbon Black</b> <1%		
CAS number: 1333-86-4	EC number: 215-609-9	REACH registration number: 01-2119384822-32
<b>Classification</b> Not Classified	<b>Classification (67/548/EEC or 1999/45/EC)</b> -	

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<b>2,6-Di-tert-butyl-p-cresol</b>			<b>&lt;1%</b>
CAS number: 128-37-0	EC number: 204-881-4	REACH registration number: 01-2119565113-46-xxxx	
M factor (Acute) = 1			
<b>Classification</b>		<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Aquatic Acute 1 - H400		N;R50/53.	
Aquatic Chronic 1 - H410			

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

<b>General information</b>	Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at 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 their side in the recovery position and ensure breathing can take place.
<b>Ingestion</b>	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.
<b>Skin contact</b>	Rinse with water.
<b>Eye contact</b>	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
<b>Protection of first aiders</b>	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: Firefighting measures

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### 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 include the following substances: Harmful gases or vapours.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. If a leak or spill has not ignited, use water spray to disperse vapours and protect men stopping the leak.

**Special protective equipment for firefighters** 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.

## **SECTION 6: Accidental release measures**

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

**Personal precautions** 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

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground.

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

**Methods for 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

**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

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<b>Usage precautions</b>	Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink 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.
<b>Advice on general occupational hygiene</b>	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

<b>Storage precautions</b>	Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well ventilated place. Keep containers upright. Protect containers from damage. Bund storage facilities to prevent soil and water pollution in the event of spillage. The storage area floor should be leak-tight, jointless and not absorbent.
<b>Storage class</b>	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 of 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)

<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.2.
<b>Usage description</b>	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.

## SECTION 8: Exposure controls/Personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### **Yellow Iron Oxide**

Long-term exposure limit (8-hour TWA): WEL 5 (as Fe) mg/m<sup>3</sup> fume

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

##### **HYDROCARBONS, C9, AROMATICS**

Long-term exposure limit (8-hour TWA): WEL 19 ppm 100 mg/m<sup>3</sup> vapour

##### **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

##### **C.I. Pigment Blue 15:3**

Long-term exposure limit (8-hour TWA): MEL 1.5 mg/m<sup>3</sup> resp.dust

##### **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

##### **Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics**

Long-term exposure limit (8-hour TWA): WEL 1000 mg/m<sup>3</sup>

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### Titanium Dioxide

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

### 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>

### Dipropylene Glycol Methyl Ether

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

Sk

### 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)

### Carbon Black

Long-term exposure limit (8-hour TWA): WEL 3,5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 7 mg/m<sup>3</sup>

### 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.

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

<b>DNEL</b>	Industry - Inhalation; Long term systemic effects: 1500 mg/m <sup>3</sup> Consumer - Oral; Long term systemic effects: 300 mg/kg/day Consumer - Dermal; Long term systemic effects: 300 mg/kg/day Industry - Dermal; Long term systemic effects: 300 mg/kg/day Consumer - Inhalation; Long term systemic effects: 900 mg/m <sup>3</sup>
<b>PNEC</b>	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.

### Yellow Iron Oxide (CAS: 51274-00-1)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 10 (inhalable) mg/m <sup>3</sup> Workers - Inhalation; Long term local effects: 10 inhalable mg/m <sup>3</sup>
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### HYDROCARBONS, C9, AROMATICS

<b>DNEL</b>	Consumer - Oral; Long term systemic effects: 11 mg/kg/day Consumer - Dermal; Long term systemic effects: 11 mg/kg/day Consumer - Inhalation; Long term systemic effects: 32 mg/m <sup>3</sup> Industry - Dermal; Long term systemic effects: 25 mg/kg/day Industry - Inhalation; Long term systemic effects: 150 mg/m <sup>3</sup>
<b>PNEC</b>	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.

### Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics

<b>Ingredient comments</b>	WEL = Workplace Exposure Limits
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**428/G123 - METALASTIC, METAL PROTECTIVE PAINT - ALL COLOURS****Titanium Dioxide (CAS: 13463-67-7)**

**DNEL** Industry - Inhalation; Long term local effects: 10 mg/m<sup>3</sup>  
Consumer - Oral; Long term systemic effects: 700 mg/kg/day

**PNEC** - Fresh water; 0.184 mg/l  
- marine water; 0.0184 mg/l  
- Sediment (Freshwater); >=1000 mg/kg  
- Sediment (Marinewater); >=100 mg/kg  
- Soil; 100 mg/kg  
- STP; 100 mg/kg

**Calcium bis(2-ethylhexanoate) (CAS: 136-51-6)**

**DNEL** Workers - Dermal; Long term systemic effects: 5.67 mg/kg  
Workers - Inhalation; Long term systemic effects: 39.98 mg/m<sup>3</sup>  
General population - Oral; Long term systemic effects: 2.83 mg/kg  
General population - Dermal; Long term systemic effects: 2.83 mg/kg  
General population - Inhalation; Long term systemic effects: 9.86 mg/m<sup>3</sup>

**PNEC** STP; 71.7 mg/l  
Soil; 1.06 mg/kg  
Intermittent release; 0.493 mg/l  
Fresh water; 0.36 mg/l  
marine water; 0.036 mg/l  
Sediment (Freshwater); 6.37 mg/kg  
Sediment (Marinewater); 0.637 mg/kg

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

**DNEL** Industry - Dermal; Long term : 65 mg/kg/day  
Industry - Inhalation; Long term : 310 mg/m<sup>3</sup>  
Consumer - Dermal; Long term : 15 mg/kg/day  
Consumer - Inhalation; Long term : 37.2 mg/m<sup>3</sup>  
Consumer - Oral; Long term : 1.67 mg/kg/day

**PNEC** Fresh water; 19 mg/l  
marine water; 1.9 mg/l  
STP; 4168 mg/l  
Sediment (Freshwater); 70.2 mg/kg  
Sediment (Marinewater); 7.02 mg/kg  
Soil; 2.74 mg/kg  
Intermittent release; 19 mg/l

**Carbon Black (CAS: 1333-86-4)**

**DNEL** Consumer - Inhalation; Long term systemic effects: 2 mg/m<sup>3</sup>

**PNEC** - Fresh water; 5 mg/l  
- marine water; 5 mg/l

**2,6-Di-tert-butyl-p-cresol (CAS: 128-37-0)**

**DNEL** Industry - Dermal; : 0.5 mg/kg/day  
Industry - Inhalation; : 3.5 mg/kg/day

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### PNEC

- Fresh water; 0.000199 mg/l
- Sediment; 0.0996 mg/l
- marine water; 0.0000199 mg/l
- Soil; 0.04769 mg/l

### 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.

#### 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.

#### 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. Manufacturers' 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.

#### Other skin and body protection

Wear appropriate clothing to prevent repeated or prolonged 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.

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### SECTION 9: Physical and chemical properties

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

<b>Appearance</b>	Viscous liquid. Coloured liquid.
<b>Colour</b>	Various colours
<b>Odour</b>	Organic solvents.
<b>Flash point</b>	41°C Closed cup.
<b>Upper/lower flammability or explosive limits</b>	: 0.8
<b>Vapour density</b>	heavier than air
<b>Relative density</b>	0.92 - 1.15 depending on colour @ @ 20 C°C
<b>Solubility(ies)</b>	Insoluble in water
<b>Partition coefficient</b>	No information available.
<b>Viscosity</b>	4.0 (Rotoinner) P @ 25 C°C

#### 9.2. Other information

**Volatile organic compound** This product contains a maximum VOC content of 400 - 490 g/litre.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity** See the other subsections of this section for further details.

#### 10.2. Chemical stability

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

#### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** The following materials may react strongly with the product: Oxidising agents.

#### 10.4. Conditions to avoid

**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** Oxidising materials. Acids - oxidising.

#### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Does not decompose when used and stored as recommended. Thermal decomposition or combustion products may include the following substances: Harmful 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

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<b>IARC carcinogenicity</b>	None of the ingredients are listed or exempt.
<b>Inhalation</b>	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.
<b>Ingestion</b>	Symptoms following overexposure may include the following: Nausea, vomiting. Diarrhoea.
<b>Skin contact</b>	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.
<b>Eye contact</b>	May cause temporary eye irritation.
<b>Medical considerations</b>	Skin disorders and allergies. Avoid vomiting and stomach flushing because of the risk of aspiration.

### Toxicological information on ingredients.

#### HYDROCARBONS, C9, AROMATICS

##### Acute toxicity - oral

Acute toxicity oral (LD<sub>50</sub> mg/kg) 3,492.0

Species Rat

Notes (oral LD<sub>50</sub>) Based on available data the classification criteria are not met.

ATE oral (mg/kg) 3,492.0

##### Acute toxicity - dermal

Acute toxicity dermal (LD<sub>50</sub> mg/kg) 3,160.0

Species Rabbit

Notes (dermal LD<sub>50</sub>) Based on available data the classification criteria are not met.

ATE dermal (mg/kg) 3,160.0

##### Acute toxicity - inhalation

Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l) 6,193.0

Species Rat

Notes (inhalation LC<sub>50</sub>) Based on available data the classification criteria are not met.

ATE inhalation (vapours mg/l) 6,193.0

##### Skin corrosion/irritation

Animal data Repeated exposure may cause skin dryness or cracking.

##### Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met.

##### Respiratory sensitisation

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

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### Skin sensitisation

**Skin sensitisation** Based on available data the classification criteria are not met.

### Germ cell mutagenicity

**Genotoxicity - in vitro** Based on available data the classification criteria are not met.

### Carcinogenicity

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

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

### Reproductive toxicity

**Reproductive toxicity - fertility** Based on available data the classification criteria are not met.

**Reproductive toxicity - development** Based on available data the classification criteria are not met.

### Specific target organ toxicity - single exposure

**STOT - single exposure** STOT SE 3 - H335, H336 May cause respiratory irritation. May cause drowsiness or dizziness.

**Target organs** Respiratory system, lungs Central nervous system

### Specific target organ toxicity - repeated exposure

**STOT - repeated exposure** Not classified as a specific target organ toxicant after repeated exposure.

### Aspiration hazard

**Aspiration hazard** Asp. Tox. 1 - H304 May be fatal if swallowed and enters airways. Pneumonia may be the result if vomited material containing solvents reaches the lungs.

### General information

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

### Inhalation

A single exposure may cause the following adverse effects: Irritation of nose, throat and airway. Difficulty in breathing. Coughing. Vapours may cause headache, fatigue, dizziness and nausea. Central nervous system depression. During application and drying, solvent vapours will be emitted. Vapours in high concentrations are narcotic.

### Ingestion

Gastrointestinal symptoms, including upset stomach. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation. Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis.

### Skin contact

Repeated exposure may cause skin dryness or cracking. Discoloration of the skin.

### Eye contact

May cause temporary eye irritation.

### Route of exposure

Ingestion Inhalation Skin and/or eye contact

### Target organs

Central nervous system Respiratory system, lungs

## 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.

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### 12.1. Toxicity

#### Ecological information on ingredients.

##### HYDROCARBONS, C9, AROMATICS

<b>Toxicity</b>	Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.
<b><u>Acute aquatic toxicity</u></b>	
<b>Acute toxicity - fish</b>	LC <sub>50</sub> , 96 hours: 9.2 mg/l, Oncorhynchus mykiss (Rainbow trout)
<b>Acute toxicity - aquatic invertebrates</b>	EC <sub>50</sub> , 48 hours: 3.2 mg/l, Daphnia magna
<b>Acute toxicity - microorganisms</b>	EC <sub>50</sub> , 48 hours: 2.9 mg/l,
<b><u>Chronic aquatic toxicity</u></b>	
<b>Chronic toxicity - fish early life stage</b>	NOEC, 28 days: 1.23 mg/l, Oncorhynchus mykiss (Rainbow trout)
<b>Chronic toxicity - aquatic invertebrates</b>	NOEC, 21 : 2.14 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, AROMATICS

<b>Persistence and degradability</b>	The degradability of the product is not known.
<b>Biodegradation</b>	- 78%: 28 days

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** No information available.

#### Ecological information on ingredients.

##### HYDROCARBONS, C9, AROMATICS

<b>Bioaccumulative potential</b>	No data available on bioaccumulation.
<b>Partition coefficient</b>	Not available.

### 12.4. Mobility in soil

**Mobility** Volatile liquid. The product contains organic solvents which will evaporate easily from all surfaces.

#### Ecological information on ingredients.

##### HYDROCARBONS, C9, AROMATICS

<b>Mobility</b>	No data available.
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### 12.5. Results of PBT and vPvB assessment

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

### Ecological information on ingredients.

#### HYDROCARBONS, C9, 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.

#### HYDROCARBONS, C9, AROMATICS

**Other adverse effects** None known.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>General information</b>	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.
<b>Disposal methods</b>	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.
<b>Waste class</b>	When this coating, in its liquid state, as supplied, becomes a waste, it is categorised as hazardous waste, with code 08 01 11* (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 08 01 11* (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 15 01 02 (plastic packaging) or 15 01 04 (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

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**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** Not applicable.

**Annex II of MARPOL 73/78 and the IBC Code**

## **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



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### EU - EINECS/ELINCS

None of the ingredients are listed or exempt.

### SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>CAS: Chemical Abstracts Service.</p> <p>ATE: Acute Toxicity Estimate.</p> <p>LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.</p> <p>LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>EC<sub>50</sub>: 50% of maximal Effective Concentration.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
<b>Classification abbreviations and acronyms</b>	<p>Acute Tox. = Acute toxicity</p> <p>Aquatic Acute = Hazardous to the aquatic environment (acute)</p> <p>Aquatic Chronic = Hazardous to the aquatic environment (chronic)</p> <p>Asp. Tox. = Aspiration hazard</p> <p>Flam. Liq. = Flammable liquid</p> <p>STOT RE = Specific target organ toxicity-repeated exposure</p> <p>STOT SE = Specific target organ toxicity-single exposure</p>
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	<p>STOT SE 3 - H336, STOT RE 1 - H372: Calculation method. Aquatic Chronic 3 - H412: Calculation method. Flam. Liq. 3 - H226: Expert judgement.</p>
<b>Training advice</b>	<p>Read and follow manufacturer's recommendations. Only trained personnel should use this material.</p>
<b>Revision comments</b>	<p>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 Substitution of neodecanoate acid, cobalt salt with cobalt polymer complex. Update for CLP labelling. Addition of EU supplier information Unique Formula Identifier (UFI) added</p>
<b>Issued by</b>	<p>Technical Dept. (P.E.)</p>
<b>Revision date</b>	<p>07/01/2021</p>
<b>Revision</b>	<p>8.2</p>
<b>Supersedes date</b>	<p>09/07/2019</p>
<b>SDS number</b>	<p>10647</p>
<b>SDS status</b>	<p>Approved.</p>

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**Hazard statements in full**

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.  
H361d Suspected of damaging the unborn child.  
H400 Very toxic to aquatic life.  
H410 Very toxic to aquatic life with long lasting effects.  
H411 Toxic to aquatic life with long lasting effects.

**Signature**

Initials \_\_\_\_\_

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 particular use.