



SAFETY DATA SHEET

405/F158 - METALCOTE PRIMER/UNDERCOAT WHITE

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 405/F158 - METALCOTE PRIMER/UNDERCOAT WHITE
Product number 405/F158/1
UFI UFI: 1P4P-32Y0-T00U-XQ52

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	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
Contact person	Technical Department -, 08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri, as above	

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. 10606

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 Aquatic Chronic 2 - H411

2.2. Label elements

Hazard pictograms



Signal word Warning

Hazard statements H226 Flammable liquid and vapour.
 H336 May cause drowsiness or dizziness.
 H411 Toxic to aquatic life with long lasting effects.

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Precautionary statements	<p>P102 Keep out of reach of children.</p> <p>P101 If medical advice is needed, have product container or label at hand.</p> <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</p> <p>P261 Avoid breathing vapour/ spray.</p> <p>P271 Use only outdoors or in a well-ventilated area.</p> <p>P273 Avoid release to the environment.</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>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</p> <p>P501 Dispose of contents/ container in accordance with national regulations.</p>
Supplemental label information	EUH066 Repeated exposure may cause skin dryness or cracking.
Contains	HYDROCARBONS, C9-C11, <2% AROMATICS
Supplementary precautionary statements	<p>P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.</p> <p>P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.</p> <p>P403+P233 Store in a well-ventilated place. Keep container tightly closed.</p>

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

HYDROCARBONS, C9-C11, <2% AROMATICS		10-30%
CAS number: —	EC number: 919-857-5	REACH registration number: 01-2119463258-33-XXXX
Classification	Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 3 - H226	Xn;R65. R10,R66,R67.	
STOT SE 3 - H336		
Asp. Tox. 1 - H304		
Calcium Carbonate		10-30%
CAS number: 1317-65-3	EC number: 215-279-6	
Classification	Classification (67/548/EEC or 1999/45/EC)	
Not Classified	-	
Titanium Dioxide		10-30%
CAS number: 13463-67-7	EC number: 236-675-5	REACH registration number: 01-2119489379-17-xxxx
Classification	Classification (67/548/EEC or 1999/45/EC)	
Not Classified	-	

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TRIZINC BIS(ORTHOPHOSPHATE) 5-10%				
CAS number: 7779-90-0	EC number: 231-944-3	REACH registration number: 01-2119485044-40-0000		
M factor (Acute) = 1	M factor (Chronic) = 1			
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410</td> <td style="width: 50%; border: none;">Classification (67/548/EEC or 1999/45/EC) N;R50/53</td> </tr> </table>			Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC or 1999/45/EC) N;R50/53
Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC or 1999/45/EC) N;R50/53			
Zinc Oxide <1%				
CAS number: 1314-13-2	EC number: 215-222-5	REACH registration number: 01-2119463881-32		
M factor (Acute) = 1	M factor (Chronic) = 1			
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410</td> <td style="width: 50%; border: none;">Classification (67/548/EEC or 1999/45/EC) N;R50/53.</td> </tr> </table>			Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC or 1999/45/EC) N;R50/53.
Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC or 1999/45/EC) N;R50/53.			
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics <1%				
CAS number: —	EC number: 918-481-9	REACH registration number: 01-2119457273-39-XXXX		
Classification Asp. Tox. 1 - H304				
2-METHYLPENTANE-2,4-DIOL <1%				
CAS number: 107-41-5	EC number: 203-489-0			
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319</td> <td style="width: 50%; border: none;">Classification (67/548/EEC or 1999/45/EC) Xi;R36/38</td> </tr> </table>			Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	Classification (67/548/EEC or 1999/45/EC) Xi;R36/38
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	Classification (67/548/EEC or 1999/45/EC) Xi;R36/38			
Dipropylene Glycol Methyl Ether <1%				
CAS number: 34590-94-8	EC number: 252-104-2	REACH registration number: 01-2119450011-60-XXXX		
<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; border: none;">Classification Not Classified</td> <td style="width: 50%; border: none;">Classification (67/548/EEC or 1999/45/EC) -</td> </tr> </table>			Classification Not Classified	Classification (67/548/EEC or 1999/45/EC) -
Classification Not Classified	Classification (67/548/EEC or 1999/45/EC) -			

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PHTHALIC ANHYDRIDE		<1%
CAS number: 85-44-9	EC number: 201-607-5	REACH registration number: 01-2119457017-41-0000

Classification	Classification (67/548/EEC or 1999/45/EC)
Acute Tox. 4 - H302	Xn;R22 R42/43 Xi;R37/38,R41
Skin Irrit. 2 - H315	
Eye Dam. 1 - H318	
Resp. Sens. 1 - H334	
Skin Sens. 1 - H317	
STOT SE 3 - H335	

2,6-Di-tert-butyl-p-cresol		<1%
CAS number: 128-37-0	EC number: 204-881-4	REACH registration number: 01-2119565113-46-xxxx
M factor (Acute) = 1		

Classification	Classification (67/548/EEC or 1999/45/EC)
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

General information	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Never give anything by mouth to an unconscious person.
Inhalation	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. Get medical attention if any discomfort continues. Place unconscious person on their side in the recovery position and ensure breathing can take place.
Ingestion	DO NOT induce vomiting. Get medical attention immediately. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water.
Eye contact	Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.

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

General information Get medical attention promptly if symptoms occur after washing.

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

Notes for the doctor No specific recommendations.

SECTION 5: Firefighting measures

5.1. Extinguishing media

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Suitable extinguishing media Extinguish with foam, carbon dioxide, dry powder or water fog. 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 Toxic gases or vapours. FLAMMABLE. Solvent vapours may form explosive mixtures with air.

5.3. Advice for firefighters

Protective actions during firefighting Risk of re-ignition after fire has been extinguished. Cool containers exposed to flames with water until well after the fire is out. Avoid the spillage or runoff entering drains, sewers or watercourses.

Special protective equipment for firefighters Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions Avoid inhalation of vapours and contact with skin and eyes. Provide adequate ventilation. No smoking, sparks, flames or other sources of ignition near spillage. Ensure suitable respiratory protection is worn during removal of spillages in confined areas.

6.2. Environmental precautions

Environmental precautions Do not discharge into drains or watercourses or onto the ground. Contain spillage with sand, earth or other suitable non-combustible material. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Avoid the spillage or runoff entering drains, sewers or watercourses. Absorb in vermiculite, dry sand or earth and place into containers. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Observe any occupational exposure limits for the product or ingredients. Avoid inhalation of vapours and spray/mists. Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level. Do not eat, drink or smoke when using the 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.

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 container tightly closed. Keep containers upright. Store away from the following materials: Oxidising materials. Alkalis. Acids.

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

Calcium Carbonate

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust

Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust

Titanium Dioxide

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust

Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust

TRIZINC BIS(ORTHOPHOSPHATE)

Long-term exposure limit (8-hour TWA): 10 mg/m³

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

Long-term exposure limit (8-hour TWA): WEL 1000 mg/m³

2-METHYLPENTANE-2,4-DIOL

Long-term exposure limit (8-hour TWA): WEL 25 ppm 123 mg/m³

Short-term exposure limit (15-minute): WEL 25 ppm 123 mg/m³

Dipropylene Glycol Methyl Ether

Long-term exposure limit (8-hour TWA): WEL 50 ppm 308 mg/m³

Sk

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Long-term exposure limit (8-hour TWA): WEL 4 mg/m³(Sen)

Short-term exposure limit (15-minute): WEL 12 mg/m³(Sen)

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

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³

WEL = Workplace Exposure Limit.

Sk = Can be absorbed through skin.

HYDROCARBONS, C9-C11, <2% AROMATICS

DNEL

Industry - Inhalation; Long term systemic effects: 1500 mg/m³

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/m³

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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.

Titanium Dioxide (CAS: 13463-67-7)

DNEL Industry - Inhalation; Long term local effects: 10 mg/m³
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

TRIZINC BIS(ORTHOPHOSPHATE) (CAS: 7779-90-0)

DNEL

- Inhalation; : 1.0 soluble Zn mg/m³
Consumer - Oral; Long term systemic effects: 0.83 mg/kg/day
- Inhalation; : 5.0 insoluble Zn mg/m³
Consumer - Inhalation; Long term systemic effects: 2.5 mg/m³
Professional - Inhalation; Long term systemic effects: 5 mg/m³
Consumer - Dermal; Long term systemic effects: 83 mg/kg/day
Professional - Dermal; Long term systemic effects: 83 mg/kg/day

PNEC

- Fresh water; 0.02 Zn mg/l
- marine water; 0.006 Zn mg/l
- Sediment (Freshwater); 117.8 mg/kg
- Sediment (Marinewater); 56.5 Zn mg/kg
- Soil; 35.6 Zn mg/kg
- STP; 0.1 Zn mg/l

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

Ingredient comments WEL = Workplace Exposure Limits

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

DNEL

- Industry - Dermal; Long term : 65 mg/kg/day
- Industry - Inhalation; Long term : 310 mg/m³
- Consumer - Dermal; Long term : 15 mg/kg/day
- Consumer - Inhalation; Long term : 37.2 mg/m³
- 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

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

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DNEL	Workers - Dermal; Long term systemic effects: 5.67 mg/kg Workers - Inhalation; Long term systemic effects: 39.98 mg/m ³ 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 ³
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

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
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 general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection

Wear chemical splash goggles.

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: ≥ 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 reasonably probable skin contact.

Hygiene measures

No specific hygiene procedures recommended but good personal hygiene practices should always be observed when working with chemical products.

Respiratory protection

Respiratory protection must be used if the airborne contamination exceeds the recommended occupational exposure limit. In case of inadequate ventilation use suitable respirator. It is recommended to use respiratory equipment with combination filter, type A2/P2.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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Appearance	Viscous liquid.
Colour	White / off-white.
Odour	Organic solvents.
Odour threshold	Not determined.
pH	Technically not feasible.
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	38 approx. °C Closed cup.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Upper/lower flammability or explosive limits	Not determined.
Other flammability	Not determined.
Vapour pressure	Not determined.
Vapour density	heavier than air
Relative density	1.39 approx. @ @ 20°C
Solubility(ies)	Insoluble in water
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	3.5 (Rot thinner) P @ 25°C
Explosive properties	Not determined.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Not determined.

9.2. Other information

Volatility	~53
Volatile organic compound	This product contains a maximum VOC content of <440 g/litre.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	There are no known reactivity hazards associated with this product.
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10.2. Chemical stability

Stability	Stable at normal ambient temperatures and when used as recommended.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not determined.
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10.4. Conditions to avoid

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Conditions to avoid Avoid heat, flames and other sources of ignition. Avoid contact with the following materials:
Acids. Oxidising agents.

10.5. Incompatible materials

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

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation Vapour from this product may be hazardous by inhalation. Vapour may irritate respiratory system/lungs.

Ingestion Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

Skin contact Product has a defatting effect on skin. Repeated exposure may cause skin dryness or cracking. May cause allergic contact eczema. Prolonged or repeated exposure may cause severe irritation.

Eye contact May cause temporary eye irritation.

Acute and chronic health hazards This product has low toxicity. Only large quantities are likely to have adverse effects on human health.

Route of exposure Inhalation Skin absorption. Ingestion. Skin and/or eye contact.

Medical considerations Skin disorders and allergies. Avoid vomiting and stomach flushing because of the risk of aspiration.

Toxicological information on ingredients.

HYDROCARBONS, C9-C11, <2% AROMATICS

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,100.0

Species Rat

ATE oral (mg/kg) 5,100.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 5,100.0

Species Rabbit

ATE dermal (mg/kg) 5,100.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 5,100.0

Species Rat

ATE inhalation (vapours mg/l) 5,100.0

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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 mm²/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

TRIZINC BIS(ORTHOPHOSPHATE)

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,100.0

Species Rat

ATE oral (mg/kg) 5,100.0

Acute toxicity - inhalation

Notes (inhalation LC₅₀) Not irritating

Skin corrosion/irritation

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Animal data 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 Does not contain any substances known to be mutagenic.

Carcinogenicity

Carcinogenicity There is no evidence that the product can cause cancer.

Reproductive toxicity

Reproductive toxicity - fertility This substance has no evidence of toxicity to reproduction.

Specific target organ toxicity - single exposure

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

Specific target organ toxicity - repeated exposure

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

General information No specific health hazards known.

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Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 1,530.0

Species Rat

ATE oral (mg/kg) 1,530.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 3,160.0

Species Rabbit

ATE dermal (mg/kg) 3,160.0

Serious eye damage/irritation

Serious eye damage/irritation Moderately irritating.

SECTION 12: Ecological information

Ecotoxicity The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

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12.1. Toxicity

Ecological information on ingredients.

HYDROCARBONS, C9-C11, <2% AROMATICS

Acute aquatic toxicity

Acute toxicity - fish	LC50, > 96 hours: 1000 mg/l, Oncorhynchus mykiss (Rainbow trout) Substance did not cause acute toxicity to fish
Acute toxicity - aquatic invertebrates	Substance did not cause acute toxicity to the freshwater invertebrates EC50, 48 hours: >1000 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC50, > 72 hours: 1000 mg/l, Freshwater algae Substance did not cause acute toxicity to the freshwater green algae
Acute toxicity - microorganisms	EC50, >: 100 mg/l, Activated sludge

Chronic aquatic toxicity

Chronic toxicity - fish early life stage	NOEC, 28 days: 0.131 mg/l, Oncorhynchus mykiss (Rainbow trout)
Chronic toxicity - aquatic invertebrates	NOEC, 28 days: 0.23 mg/l, Daphnia magna

TRIZINC BIS(ORTHOPHOSPHATE)

Acute aquatic toxicity

LE(C)50	0.1 < L(E)C50 ≤ 1
M factor (Acute)	1
Acute toxicity - fish	LC50, 96 hours: Oncorhynchus mykiss 0.14 - 0.26 Zn2+ mg/l, Fish
Acute toxicity - aquatic invertebrates	EC50, 48 hours: Daphnia magna 0.04 - 0.86 Zn2+ mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC50, 72 hours: 0.136 - 0.15 Zn2+ mg/l, Selenastrum capricornutum IC50, 72 hours: Desmodium subspicatus <0.3 mg/l, Algae

Chronic aquatic toxicity

NOEC	0.01 < NOEC ≤ 0.1
Degradability	Non-rapidly degradable
M factor (Chronic)	1

PHTHALIC ANHYDRIDE

Acute aquatic toxicity

Acute toxicity - aquatic invertebrates	NOEC, 21 days: 16 mg/l, Daphnia magna EC50, 48 hours: >640 mg/l, Daphnia magna
Acute toxicity - aquatic plants	NOEC, 72 hours: 32 mg/l, Algae NOEC, 72 hours: >100 mg/l, Algae
Acute toxicity - microorganisms	EC50, 3 hours: >1000 mg/l, Activated sludge

12.2. Persistence and degradability

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Persistence and degradability The product is not expected to be biodegradable.

Ecological information on ingredients.

HYDROCARBONS, C9-C11, <2% AROMATICS

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

12.3. Bioaccumulative potential

Bioaccumulative potential	The product contains potentially bioaccumulating substances.
Partition coefficient	Not determined.

Ecological information on ingredients.

HYDROCARBONS, C9-C11, <2% AROMATICS

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

TRIZINC BIS(ORTHOPHOSPHATE)

Bioaccumulative potential	The product is not bioaccumulating.
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PHTHALIC ANHYDRIDE

Bioaccumulative potential	BCF: 3.4,
Partition coefficient	log Pow: 1.6

12.4. Mobility in soil

Mobility	The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.
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Ecological information on ingredients.

HYDROCARBONS, C9-C11, <2% AROMATICS

Mobility	The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces. Readily absorbed into soil.
Adsorption/desorption coefficient	Not available.
Surface tension	24.5 mN/m @ 20°C

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.
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Ecological information on ingredients.

HYDROCARBONS, C9-C11, <2% AROMATICS

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

TRIZINC BIS(ORTHOPHOSPHATE)

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 The product contains volatile organic compounds (VOCs) which have a photochemical ozone creation potential.

Ecological information on ingredients.

HYDROCARBONS, C9-C11, <2% AROMATICS

Other adverse effects Not known.

TRIZINC BIS(ORTHOPHOSPHATE)

Other adverse effects Not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information Avoid the spillage or runoff entering drains, sewers or watercourses.

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

Waste class 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 This product is packed in accordance with the Limited Quantity Provisions of CDGCPL2, ADR and IMDG.

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 Zinc Phosphate, Class 9, Packing Group III, MARINE POLLUTANT, and Low Aromatic White Spirit, Class 3, Packing Group III (38 °C)

Proper shipping name (IMDG) PAINT

Proper shipping name (ICAO) PAINT

Proper shipping name (ADN) PAINT

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14.3. Transport hazard class(es)

ADR/RID class	1263
IMDG class	3
ICAO class/division	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



14.6. Special precautions for user

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).
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).

Guidance Safety Data Sheets for Substances and Preparations.

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 information

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Abbreviations and acronyms used in the safety data sheet	<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>LC₅₀: Lethal Concentration to 50 % of a test population.</p> <p>LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>EC₅₀: 50% of maximal Effective Concentration.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
Classification abbreviations and acronyms	<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>
Training advice	Read and follow manufacturer's recommendations.
Revision comments	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. Revised classification of zinc phosphate. Revision to sections 2, 8, 11 & 12 for reclassification of solvents. Unique Formula Identifier (UFI) added
Issued by	Technical Dept. (P.E.)
Revision date	05/01/2021
Revision	9.2
Supersedes date	16/12/2020
SDS number	10606
SDS status	Approved.
Hazard statements in full	<p>H226 Flammable liquid and vapour.</p> <p>H302 Harmful if swallowed.</p> <p>H304 May be fatal if swallowed and enters airways.</p> <p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.</p> <p>H335 May cause respiratory irritation.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H400 Very toxic to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p> <p>H411 Toxic to aquatic life with long lasting effects.</p>
Signature	Initials_____

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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.