

SAFETY DATA SHEET

500/P101 - 2 PACK HIGH PERFORMANCE TOPCOAT COLOURS - BASE

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 t	the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product name	500/P101 - 2 PACK HIGH PERFORMANCE TOPCOAT COLOURS - BASE
Product number	500/P101/ - COLOURS - BASE
1.2. Relevant identified uses	of the substance or mixture and uses advised against
Identified uses	BASE FOR TWO COMPONENT MARINE TOPCOAT
1.3. Details of the supplier of	the safety data sheet
Supplier	TEAL & MACKRILL LIMITED LOCKWOOD STREET HULL HU2 0HN
	+44(0)1482 320194(T) +44(0)1482 219266(F) info@teamac.co.uk
Contact person	Technical Department -, as above, 08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri
1.4. Emergency telephone nu	mber
Emergency telephone	+44 (0) 1482 320194 Teamac (08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri)
SDS No.	10972
SECTION 2: Hazards identific	cation
2.1. Classification of the subs	tance or mixture
Classification (EC 1272/2008)	-
Physical hazards	Flam. Liq. 3 - H226
Health hazards	STOT SE 3 - H336
Environmental hazards	Aquatic Chronic 3 - H412
2.2. Label elements	
Pictogram	

Hazard statements	EUH208 Contains Fatty acids, C14-18 and C16-18-unsatd., maleated. May produce an allergic reaction. H226 Flammable liquid and vapour. H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects.
Precautionary statements	 P102 Keep out of reach of children. P101 If medical advice is needed, have product container or label at hand. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P261 Avoid breathing vapour/ spray. P273 Avoid release to the environment. 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. P501 Dispose of contents/ container in accordance with national regulations.
Supplemental label information	EUH066 Repeated exposure may cause skin dryness or cracking.
Contains	2-METHOXY-1-METHYLETHYL ACETATE, HYDROCARBONS, C9, AROMATICS
Supplementary precautionary statements	P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P403+P235 Store in a well-ventilated place. Keep cool.

2.3. Other hazards

This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures		
2-METHOXY-1-METHYLETHYL	ACETATE	10-30%
CAS number: 108-65-6	EC number: 203-603-9	REACH registration number: 01- 2119475791-29-xxxx
Classification	Classificatio	on (67/548/EEC or 1999/45/EC)
Flam. Liq. 3 - H226	R10	
STOT SE 3 - H336		
Barium Sulphate		10-30%
CAS number: 7727-43-7	EC number: 231-784-4	REACH registration number: 01-
		2119491274-35-0001
Classification	Classification	on (67/548/EEC or 1999/45/EC)
Not Classified	-	

HYDROCARBONS, C9, AROMATICS				5-10%
CAS number: —	EC number: 918-66	8-5	REACH registration number: 01- 2119455851-35-xxxx	
Classification Flam. Liq. 3 - H226 STOT SE 3 - H335, H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411		=	48/EEC or 1999/45/EC) ;R51/53. R10,R66,R67.	
XYLENE ISOMER MIXTURE				1-5%
CAS number: 1330-20-7	EC number: 215-53	5-7	REACH registration number: 01- 2119488216-32-0000	
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H335 STOT RE 2 - H373 Asp. Tox. 1 - H304 Aquatic Chronic 3 - H412		Classification (67/5 R10 Xn;R20/21 Xi;	548/EEC or 1999/45/EC) R38	
Silicon dioxide, chemically prepared				1-5%
CAS number: 7631-86-9	EC number: 231-54	5-4	REACH registration number: 01- 2119379499-16-0000	
Classification Not Classified				
Fatty acids, C14-18 and C16-18-unsatd	., maleated			<1%
CAS number: 85711-46-2	EC number: 288-30	6-2	REACH registration number: 01- 2119976378-19-0000	
Classification Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317				
2-METHOXYPROPYL ACETATE				<1%
CAS number: 70657-70-4	EC number: 274-72	4-2		
Classification Flam. Liq. 3 - H226 Repr. 1B - H360D STOT SE 3 - H335		Classification (67/5 R10 Repr. Cat. 2;R	48/EEC or 1999/45/EC) R61 Xi;R37	

MALEIC ANHYDRIDE		<1%
CAS number: 108-31-6	EC number: 203-571-6	
Classification	Classification (67/548/EEC or 1999/45/EC)	
Acute Tox. 4 - H302	C;R34 Xn;R22 R42/43	
Skin Corr. 1B - H314		
Eye Dam. 1 - H318		
Resp. Sens. 1 - H334		
Skin Sens. 1 - H317		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information	Get medical attention immediately. Show this Safety Data Sheet to the medical personnel.
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. 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.
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	Rinse with water.
Eye contact	Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes.
Protection of first aiders	First aid personnel should wear appropriate protective equipment during any rescue.
4.2. Most important symptoms	s and effects, both acute and delayed
General information	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.
Inhalation	A single exposure may cause the following adverse effects: Dryness of mouth and throat. Coughing, chest tightness, feeling of chest pressure. Overexposure to organic solvents may depress the central nervous system, causing dizziness and intoxication and, at very high concentrations, unconsciousness and death. Congestion of the lungs may occur, producing severe shortness of breath. During application and drying, solvent vapours will be emitted. Vapours in high concentrations are narcotic.
Inhalation	A single exposure may cause the following adverse effects: Dryness of mouth and throat. Coughing, chest tightness, feeling of chest pressure. Overexposure to organic solvents may depress the central nervous system, causing dizziness and intoxication and, at very high concentrations, unconsciousness and death. Congestion of the lungs may occur, producing severe shortness of breath. During application and drying, solvent vapours will be emitted.
	A single exposure may cause the following adverse effects: Dryness of mouth and throat. Coughing, chest tightness, feeling of chest pressure. Overexposure to organic solvents may depress the central nervous system, causing dizziness and intoxication and, at very high concentrations, unconsciousness and death. Congestion of the lungs may occur, producing severe shortness of breath. During application and drying, solvent vapours will be emitted. Vapours in high concentrations are narcotic. A single exposure may cause the following adverse effects: Irritation. Nausea, vomiting. Symptoms following overexposure may include the following: Unconsciousness. Fumes from

Notes for the doctor	Treat symptomatically.
SECTION 5: Firefighting meas	ures
5.1. Extinguishing media	
Suitable extinguishing media	The product is not flammable. 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 fro	om the substance or mixture
Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up. Contains Hydrocarbons. The product is immiscible with water and will spread on the water surface.
Hazardous combustion products	Hydrocarbons. Carbon monoxide (CO). Carbon dioxide (CO2).
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 releas	e measures
6.1. Personal precautions, pro	tective 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 precaution	<u>S</u>
Environmental precautions	Immiscible with water. Aquatic toxicity is unlikely to occur. However, large or frequent spills may have hazardous effects on the environment. Absorb spillage with non-combustible, absorbent material.
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.

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

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 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, 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.
 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 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.
Storage class	Unspecified storage.
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

2-METHOXY-1-METHYLETHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 274 mg/m³ Short-term exposure limit (15-minute): WEL 100 ppm 548 mg/m³ Sk

Barium Sulphate

Long-term exposure limit (8-hour TWA): 10 mg/m³ inhalable dust Long-term exposure limit (8-hour TWA): 4 mg/m³ respirable dust

HYDROCARBONS, C9, AROMATICS

Long-term exposure limit (8-hour TWA): WEL 19 ppm 100 mg/m³ vapour

XYLENE ISOMER MIXTURE

Long-term exposure limit (8-hour TWA): WEL 50 ppm 220 mg/m³ Short-term exposure limit (15-minute): WEL 100 ppm 441 mg/m³ Sk

Silicon dioxide, chemically prepared

Long-term exposure limit (8-hour TWA): WEL 2.4 mg/m³ respirable dust Long-term exposure limit (8-hour TWA): WEL 6 mg/m³ inhalable dust

MALEIC ANHYDRIDE

Long-term exposure limit (8-hour TWA): WEL 1 mg/m³ Short-term exposure limit (15-minute): WEL 3 mg/m³ Sen

WEL = Workplace Exposure Limit Sk = Can be absorbed through the skin. Sen = Capable of causing occupational asthma.

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

DNEL	Workers - Inhalation; Long term systemic effects: 275 mg/m³ Workers - Dermal; Long term systemic effects: 796 mg/kg/day Consumer - Inhalation; Long term systemic effects: 33 mg/m³ Consumer - Dermal; Long term systemic effects: 320 mg/kg/day Consumer - Oral; Long term systemic effects: 36 mg/kg/day
PNEC	- STP; 100 mg/l - Fresh water; 0.635 mg/l - Soil; 0.29 mg/kg - Sediment; 3.29 mg/kg - marine water; 0.0635 mg/l - Sediment (Marinewater); 0.329 mg/kg - Intermittent release; 6.35 mg/l
	HYDROCARBONS, C9, AROMATICS
DNEL	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 ³ Industry - Dermal; Long term systemic effects: 25 mg/kg/day Industry - Inhalation; Long term systemic effects: 150 mg/m ³
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.
	XYLENE ISOMER MIXTURE (CAS: 1330-20-7)
DNEL	Consumer - Inhalation; Long term systemic effects: 65.3 mg/m ³ Consumer - Dermal; Long term systemic effects: 1872 mg/kg/day Consumer - Oral; Long term systemic effects: 12.5 mg/kg/day Industry - Inhalation; Long term systemic effects: 221 mg/m ³ Industry - Inhalation; Short term : 442 mg/m ³ Consumer - Inhalation; Short term : 260 mg/m ³ Industry - Dermal; Long term systemic effects: 3182 mg/kg/day
PNEC	 Fresh water; 0.327 mg/l marine water; 0.327 mg/l Intermittent release; 0.327 mg/l STP; 6.58 mg/l Sediment (Freshwater); 12.46 mg/kg Sediment (Marinewater); 12.46 mg/kg Soil; 2.31 mg/kg

bis(2-DIMETHYLAMINOETHYL)(METHYL)AMINE (CAS: 3030-47-5)

DNEL	Workers - Dermal; Long term systemic effects: 0.15 mg/m³ Workers - Inhalation; Long term systemic effects: 0.529 mg/m³
PNEC	 Soil; 0.0472 mg/kg Intermittent release; 0.549 mg/l STP; 100 mg/l Fresh water; 0.0549 mg/l marine water; 0.00549 mg/l Sediment (Freshwater); 0.0398 mg/kg Sediment (Marinewater); 0.0398 mg/kg
	MALEIC ANHYDRIDE (CAS: 108-31-6)
DNEL	Workers - Inhalation; Short term systemic effects: 0.8 mg/m ³ Workers - Inhalation; Long term systemic effects: 0.4 mg/m ³
PNEC	 Fresh water; 0.1 mg/l marine water; 0.01 mg/l Intermittent release; 0.428 mg/l Soil; 0.042 mg/kg Sediment (Freshwater); 0.334 mg/kg Sediment (Marinewater); 0.0334 mg/kg

- STP; 44.6 mg/l

8.2. Exposure controls

Protective equipment





	_
Appropriate engineering controls	Provide adequate ventilation. 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. Manufacturer's performance data suggest that the optimum glove for use should be: Wear protective gloves made of the following material: Polyvinyl alcohol (PVA). Thickness: 0.2 - 0.3 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	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.

Hygiene measures	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. 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. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.
Respiratory protection	Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. 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 EN136.
Environmental exposure	Keep container tightly sealed when not in use.

controls

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

· ·	
Appearance	Viscous liquid. Coloured liquid.
Colour	Various colours
Odour	Characteristic. Organic solvents.
Odour threshold	Not determined.
рН	Technically not feasible.
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	40°C Closed cup.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Upper/lower flammability or explosive limits	: 0.8
Other flammability	Not determined.
Vapour pressure	400 Pa @ °C
Vapour density	heavier than air
Relative density	1.05 - 1.07 @ @ 20 C°C
Solubility(ies)	Insoluble in water
Partition coefficient	Not determined.
Auto-ignition temperature	314 C (Methoxy Propanol Acetate)°C
Decomposition Temperature	Not determined.
Viscosity	2.1 (Cone and Plate) 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		
SECTION 10: Stability and rea	activity	
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	No potentially hazardous reactions known.	
10.4. Conditions to avoid		
Conditions to avoid	Avoid heat. Containers can burst violently or explode when heated, due to excessive pressure build-up.	
10.5. Incompatible materials		
Materials to avoid	Oxidising agents. Acids - oxidising.	
10.6. Hazardous decompositio	on 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 toxicologi	cal effects	
<u>Acute toxicity - dermal</u> ATE dermal (mg/kg)	39,357.54	
Acute toxicity - inhalation ATE inhalation (vapours mg/l)	416.06	
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: Dryness of mouth and throat. Coughing, chest tightness, feeling of chest pressure. Overexposure to organic solvents may depress the central nervous system, causing dizziness and intoxication and, at very high concentrations, unconsciousness and death. Congestion of the lungs may occur, producing severe shortness of breath. During application and drying, solvent vapours will be emitted. Vapours in high concentrations are narcotic.	
Ingestion	A single exposure may cause the following adverse effects: Irritation. Nausea, vomiting. Symptoms following overexposure may include the following: Unconsciousness. Fumes from the stomach contents may be inhaled, resulting in the same symptoms as inhalation.	
Skin contact	A single exposure may cause the following adverse effects: Redness. Irritation. Discoloration of the skin.	
Eye contact	A single exposure may cause the following adverse effects: Redness. 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	Ingestion Inhalation Skin and/or eye contact
Target organs	No specific target organs known.
Medical considerations	Skin disorders and allergies. Avoid vomiting and stomach flushing because of the risk of aspiration.

Toxicological information on ingredients.

2-METHOXY-1-METHYLETHYL ACETATE

Acute toxicity - oral	
Acute toxicity oral (LD₅₀ mg/kg)	8,532.0
Species	Rat
ATE oral (mg/kg)	8,532.0
Acute toxicity - dermal	
Acute toxicity dermal (LD₅₀ mg/kg)	5,000.0
Species	Rabbit
ATE dermal (mg/kg)	5,000.0
Acute toxicity - inhalation	
Acute toxicity inhalation (LC∞ vapours mg/l)	35.7
Species	Rat
ATE inhalation (vapours mg/l)	35.7
Skin corrosion/irritation	
Animal data	Not irritating.
Skin sensitisation	
Skin sensitisation	Based on available data the classification criteria are not met.
Germ cell mutagenicity	
Genotoxicity - in vitro	This substance has no evidence of mutagenic properties.
Specific target organ toxicity - single exposure	
STOT - single exposure	Emits vapours if heated. Vapours/aerosol spray may irritate the respiratory system.
Specific target organ toxicity - repeated exposure	
<u> </u>	<u> </u>

HYDROCARBONS, C9, AROMATICS

Acute toxicity - oral

Acute toxicity oral (LD₅₀ 3,492.0 mg/kg)

Species	Rat	
Notes (oral LD₅₀)	Based on available data the classification criteria are not met.	
ATE oral (mg/kg)	3,492.0	
Acute toxicity - dermal		
Acute toxicity dermal (LD₅ mg/kg)	3,160.0	
Species	Rabbit	
Notes (dermal LD₅₀)	Based on available data the classification criteria are not met.	
ATE dermal (mg/kg)	3,160.0	
Acute toxicity - inhalation		
Acute toxicity inhalation (LC₅₀ vapours mg/l)	6,193.0	
Species	Rat	
Notes (inhalation LC_{50})	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.	
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	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 toxicit	ty - 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 toxicit	y - 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
12: Ecological information	

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.

Ecological information on ingredients.

2-METHOXY-1-METHYLETHYL ACETATE

	Ecotoxicity	The product is not expected to be hazardous to the environment.
12.1. Toxic	ity	
Toxicity	Based of	on available data the classification criteria are not met.
Ecological i	nformation on ingredients.	
		2-METHOXY-1-METHYLETHYL ACETATE
	Acute aquatic toxicity	
	Acute toxicity - fish	LC_{100} , > 96 hours: 134 mg/l, Oncorhynchus mykiss (Rainbow trout)
	Acute toxicity - aquatic invertebrates	LC₅₀, 48 hours: > 500 mg/l, Daphnia magna EC₅₀, 21 days: > 100 mg/l, Daphnia magna NOEC, 21 days: > 100 mg/l, Daphnia magna
	Acute toxicity - aquatic plants	EC₅o, > 72 hours: 1000 mg/l, Scenedesmus subspicatus NOEC, 72 hours: > 1000 mg/l, Selenastrum capricornutum

HYDROCARBONS, C9, AROMATICS

	Toxicity	Aquatic Chronic 2 - H411 Toxic to aquatic life with long lasting effects.
	Acute aquatic toxicity	
	Acute toxicity - fish	LC₅₀, 96 hours: 9.2 mg/l, Oncorhynchus mykiss (Rainbow trout)
	Acute toxicity - aquat invertebrates	c EC₅₀, 48 hours: 3.2 mg/l, Daphnia magna
	Acute toxicity - microorganisms	EC₅₀, 48 hours: 2.9 mg/l,
12.2. Persis	stence and degradabilit	
Persistence	and degradability Th	- e degradability of the product is not known.
Ecological i	nformation on ingredie	nts.
		2-METHOXY-1-METHYLETHYL ACETATE
	Persistence and degradability	The product is readily biodegradable.
	Biodegradation	- Degradation 100% (DOC): 28 days
		HYDROCARBONS, C9, AROMATICS
	Persistence and degradability	The degradability of the product is not known.
	Biodegradation	- 78%: 28 days
12.3. Bioac	cumulative potential	
Bioaccumu	lative potential No	data available on bioaccumulation.
Partition co	efficient No	t determined.
Ecological i	nformation on ingredie	nts.
		2-METHOXY-1-METHYLETHYL ACETATE
	Partition coefficient	log Kow: 1.2 log Pow: 0.43
		HYDROCARBONS, C9, AROMATICS
	Bioaccumulative pote	ntial No data available on bioaccumulation.
	Partition coefficient	Not available.
12.4. Mobili	ty in soil	
Mobility		e product is insoluble in water. Volatile liquid. The product contains organic solvents which evaporate easily from all surfaces.
Ecological i	nformation on ingredie	nts.
		HYDROCARBONS, C9, AROMATICS
	Mobility	No data available.

12.5. Results of PBT and vPvB assessment

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

Ecological information on ingredients.

2-METHOXY-1-METHYLETHYL ACETATE

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

HYDROCARBONS, C9, AROMATICS

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

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

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 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	<u>e</u>	
Proper shipping name (ADR/RID)	PAINT - Contains Hydrocarbons, C9, Aromatics, Class 3, PGIII, FP = 38 °C (MARINE POLLUTANT)	
Proper shipping name (IMDG)	PAINT - Contains Hydrocarbons, C9, Aromatics, Class 3, PGIII, FP = 38 °C (MARINE POLLUTANT)	
Proper shipping name (ICAO)	PAINT - Contains Hydrocarbons, C9, Aromatics, Class 3, PGIII, FP = 38 °C (MARINE POLLUTANT)	
14.3. Transport hazard class(es)		
ADR/RID class	3	
IMDG class	3	
ICAO class/division	3	
Transport labels		



14.4. Packing group	
ADR/RID packing group	III
IMDG packing group	Ш
ICAO packing group	Ш

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



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

National regulations

Control of Substances Hazardous to Health Regulations 2002 (as amended).

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

SECTION 16: Other information

None of the ingredients are listed or exempt.

CECTION 10. Outor 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_{50} : Lethal Concentration to 50 % of a test population.
	LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
	EC ₅₀ : 50% of maximal Effective Concentration.
	PBT: Persistent, Bioaccumulative and Toxic substance.
	vPvB: Very Persistent and Very Bioaccumulative.
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 Revisions to Sections (2),(3),(8),(15), and (16) - re-classification of resin components. Revision to sections 2, 8, 11 & 12 for reclassification of solvents.
Issued by	Technical Dept. (P.E.)
Revision date	22/01/2019
Revision	8.0
Supersedes date	18/10/2016
SDS number	10972
SDS status	Approved.

Hazard statements in full	H226 Flammable liquid and vapour.
	H302 Harmful if swallowed.
	H304 May be fatal if swallowed and enters airways.
	H312 Harmful in contact with skin.
	H314 Causes severe skin burns and eye damage.
	H315 Causes skin irritation.
	H317 May cause an allergic skin reaction.
	H318 Causes serious eye damage.
	H319 Causes serious eye irritation.
	H332 Harmful if inhaled.
	H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
	H335 May cause respiratory irritation.
	H336 May cause drowsiness or dizziness.
	H360D May damage the unborn child.
	H373 May cause damage to organs (Respiratory system, lungs) through prolonged or
	repeated exposure if inhaled.
	H411 Toxic to aquatic life with long lasting effects.
	H412 Harmful to aquatic life with long lasting effects.
	EUH208 Contains Fatty acids, C14-18 and C16-18-unsatd., maleated. May produce an
	allergic reaction.
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.