

Product METALSHIELD BASE M  
 Revision date 17 November 2021  
 Revision 2



**Safety Data Sheet (SDS)**  
 according to Regulation (EC) No. 1907/2006

**Section 1: Identification of the substance/mixture and of the company/undertaking**

**1.1 Product identifier**

**Product name** METALSHIELD BASE M  
**Other means of identification** UFI: FKCX-DE7R-E205-95WC

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

**Identified uses** Paint or paint related material.  
**Uses advised against** Any other purpose.

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

**Supplier** FSW Coatings Ltd  
 Virginia  
 Co Cavan  
 Ireland  
 Tel: 353 49854 7209  
**Contact person** info@fsw.ie

**1.4 Emergency telephone number**

**Emergency telephone** + 353 49854 7209 (Between 0900 and 1700 hrs Monday-Friday)  
**National emergency telephone number** Outside those hours, contact National Poisons Information Centre, Beaumont Hospital.  
 Members of Public: +353 (1) 809 2166. (8.00 a.m. to 10.00 p.m. 7 days a week) Healthcare  
 Professionals: +353 (1) 809 2566 (24 hour service)

**Section 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification (EC 1272/2008)**  
 Physical and chemical hazards Flam. Liq 3- H226  
 Human health Eye Irrit.2A - H319, STOT SE 3 - H336, Skin. Sens 1 A- H317  
 Environment Aquatic Chronic 2 - H411

**2.2 Label elements**

**Contains** Cobalt bis(2-ethylhexanoate)  
 dodecane-1-thiol  
 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics  
 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

**Label in accordance with (EC) no. 1272/2008**



**Signal word** Warning

**Hazard statements** H226 Flammable liquid and vapour.  
 H317 May cause an allergic skin reaction.  
 H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.  
 H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements** **Prevention**

P210 Keep away from heat/ sparks/open flames/hot surfaces. — No smoking.

P233 Keep container tightly closed.

P271 Use only outdoors or in a well-ventilated area.

**Response**

P370 + P378 In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO<sub>2</sub>) for extinction.

**Storage**

P403 + P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

**EUH statements**

EUH211 Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

**2.3 Other hazards**

None known.

**Section 3: Composition/information on ingredients**

**3.1 Substance**

Not applicable.

**3.2 Mixtures**

Name	Product identifier	Regulation (EC) No 1272/2008	%
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	CAS-No.: EC No.: 919-857-5 REACH Reg No.: 01-2119463258-33-XXXX	Asp. Tox - H304, Flam. Liq 3- H226, STOT SE 3 - H336	40-50%
trizinc bis(orthophosphate)	CAS-No.: 7779-90-0 EC No.: 231-944-3	Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	5-10%
titanium dioxide	CAS-No.: 13463-67-7 EC No.: 236-675-5 REACH Reg No.: 01-2119489379-17-0002		5-10%
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	CAS-No.: 64742-82-1 EC No.: 919-446-0 REACH Reg No.: 01-2119458049-33	STOT SE 3 - H336, Asp. Tox - H304, Flam. Liq 3- H226, Aquatic Chronic 2 - H411	1-5%
1-methoxypropan-2-ol	CAS-No.: 107-98-2 EC No.: 203-539-1	Flam. Liq 3- H226, STOT SE 3 - H336	1-5%
2-ethylhexanoic acid, zirconium salt	CAS-No.: 22464-99-9 EC No.: 245-018-1	Repr. 2 - H361d	0.1-0.9%
Isopropoxyethanol	CAS-No.: 109-59-1 EC No.: 203-685-6 REACH Reg No.: 1-2119494720-35-xxxx	Acute Tox 4 - H312, Acute Tox 4 - H332, Skin Irrit.2 - H315, Eye Irrit.2A - H319, Flam. Liq 3- H226	0.1-0.9%
Cobalt bis(2-ethylhexanoate)	CAS-No.: 136-52-7 EC No.: 205-250-6 REACH Reg No.: 01-2119524678-29-XXXX	Eye Irrit.2A - H319, Skin. Sens 1 A- H317, Repr. 1B- H360, Aquatic Acute 1 - H400, Aquatic Chronic 3 - H412	0.1-0.9%
naphthalene	CAS-No.: 91-20-3 EC No.: 202-049-5	Acute Tox 4 - H302, Carc. 2 - H351, Aquatic Acute 1 - H400, Aquatic Chronic 1 - H410	0.1-0.9%
Ethanol	CAS-No.: 64-17-5 EC No.: 200-578-6 REACH Reg No.: 01-2119457610-43	Eye Irrit.2A - H319, Flam. Liq 2- H225	<0.1%
dodecane-1-thiol	CAS-No.: 112-55-0 EC No.: 203-984-1	Skin Corr. 1C - H314, Skin. Sens 1 A- H317, Aquatic Chronic 1 - H410	<0.1%
propionic acid	CAS-No.: 79-09-4 EC No.: 201-176-3	Skin Corr. 1B - H314	<0.1%
nonane	CAS-No.: 111-84-2 EC No.: 203-913-4	Aquatic Chronic 1 - H410, Skin Irrit.2 - H315, Asp. Tox - H304, Flam. Liq 3- H226, STOT SE 3 - H336	<0.1%
octane	CAS-No.: 111-65-9 EC No.: 203-892-1	Aquatic Chronic 1 - H410, Skin Irrit.2 - H315, Asp. Tox - H304, Flam. Liq 2- H225, STOT SE 3 - H336	<0.1%

The full text for all hazard statements are displayed in section 16.

<b>Composition comments</b>	The data shown are in accordance with the latest EC Directives. Ethanol: Specific Concentration Limits - Eye Irrit. 2; H319: >= 50. Propionic Acid: Specific Concentration Limits - Eye Irrit. 2; H319: 10 % <= C < 25 %, STOT SE 3; H335: C >= 10 %, Skin Corr. 1B; H314: C >= 25 %, Skin Irrit. 2; H315: 10 % <= C < 25 %. Cobalt bis(2-ethylhexanoate): M (acute) = 1.
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## Section 4: First aid measures

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### 4.1 Description of first aid measures

<b>General information</b>	General first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor. NEVER induce swallowing in an unconscious person. Show this safety data sheet or product label to medical personnel.
<b>Inhalation</b>	Remove the affected person to fresh air, obtain medical attention if symptoms persist.
<b>Ingestion</b>	Rinse mouth thoroughly. DO NOT induce vomiting. Get medical attention immediately.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with soap and water. Launder contaminated clothing before reuse. Get medical attention if symptoms persist.
<b>Eye contact</b>	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Rinse with a gentle stream water for at least 15 minutes. Get prompt medical attention.

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

<b>General information</b>	The severity of the symptoms described will vary dependant of the concentration and the length of exposure.
<b>Inhalation</b>	May cause drowsiness or dizziness.
<b>Ingestion</b>	Prolonged exposure to product may cause irritation to lining of the mouth.
<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dry skin. May cause an allergic skin reaction.
<b>Eye contact</b>	Causes serious eye irritation.

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

<b>Notes to the physician</b>	Treat symptomatically.
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## Section 5: Firefighting measures

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### 5.1 Extinguishing media

<b>Extinguishing media</b>	Use fire-extinguishing media appropriate for surrounding materials. Use water fog, foam, dry chemical or carbon dioxide (CO <sub>2</sub> ) to extinguish flames.
<b>Unsuitable extinguishing media</b>	High volume water jet.

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

<b>Hazardous combustion products</b>	When heated, toxic and corrosive vapours/gases may be formed
<b>Unusual fire &amp; explosion hazards</b>	No unusual fire or explosion hazards noted.
<b>Specific hazards</b>	If heated, harmful vapours may be formed.

### 5.3 Advice for firefighters

<b>Special fire fighting procedures</b>	Avoid breathing fire vapours. Keep up-wind to avoid fumes. Fight advanced or massive fires from safe distance or protected location. Do not scatter spilled material with more water than needed to fight the fire Do not get water inside container
<b>Protective equipment for firefighters</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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## Section 6: Accidental release measures

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

<b>For non-emergency personnel</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Do not smoke, use open fire or other sources of ignition. Make safe all sources of ignition. Avoid contact with skin and eyes.
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**For emergency responders**

Follow safe handling advice and personal protective equipment recommendations for normal use of product.

**6.2 Environmental precautions****Environmental precautions**

Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

**6.3 Methods and material for containment and cleaning up****Spill clean up methods**

Stop leak if possible without risk. Wear necessary protective equipment. Absorb spillage with non-combustible, absorbent material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Wash thoroughly after dealing with a spillage.

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

For waste disposal, see section 13. See section 1 for emergency contact. For personal protection, see section 8

**Section 7: Handling and storage****7.1 Precautions for safe handling****Handling**

Read and follow manufacturer's recommendations. Do not handle broken packages without protective equipment. Avoid spilling, skin and eye contact. Do not use contact lenses. Keep away from heat, sparks and open flame. Eliminate all sources of ignition. Observe occupational exposure limits and minimise the risk of inhalation of vapours and mist. Ensure adequate ventilation. Vapours are heavier than air and may spread along floors. Do not eat, drink or smoke when using the product.

**7.2 Conditions for safe storage, including any incompatibilities****Storage precautions**

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep upright. Keep locked up and out of reach of children. Avoid storing for very long periods. Keep container tightly sealed when not in use. Bags or containers, which are opened, must be carefully resealed to prevent leakage. Avoid contact with oxidising agents. Store away from acids. Store separate from alkalis. Store in cool dry areas away from direct sunlight or sources of ignition. Store away from other chemicals.

**Storage class**

Flammable liquid storage.

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

The identified uses for this product are detailed in Section 1.

**Usage description**

Use only according to directions. Replace and tighten cap after use.

**Section 8: Exposure controls/Personal protection****8.1 Control parameters**

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
titanium dioxide	OEL		10 mg/m <sup>3</sup>			
titanium dioxide	OEL		4 mg/m <sup>3</sup>			
1-methoxypropan-2-ol	OEL	100 ppm	375 mg/m <sup>3</sup>	150 ppm	568 mg/m <sup>3</sup>	IOELV
Isopropoxyethanol	OEL	25 ppm	106 mg/m <sup>3</sup>			Sk
Ethanol	OEL			1000 ppm		
dodecane-1-thiol	OEL	0.1 ppm				Sens.
Naphthalene	OEL	10 ppm	50 mg/m <sup>3</sup>			IOELV
propionic acid	OEL	10 ppm	31 mg/m <sup>3</sup>	20 ppm	62 mg/m <sup>3</sup>	IOELV
nonane	OEL	200 ppm	1050 mg/m <sup>3</sup>			
octane	OEL	300 ppm	1450 mg/m <sup>3</sup>			

**Ingredient comments**

Ireland, Occupational Exposure Limits 2021.

## 8.2 Exposure Controls

### Protective equipment



### Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

### Respiratory equipment

Where risk assessment shows air-purifying respirators are appropriate a full face respirator conforming to EN143 should be used, and suitable respirator cartridges as a backup to engineering controls. Use type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as CEN (EU).

### Hand protection

Use suitable protective gloves if there is a risk of skin contact. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Change gloves regularly. Suggested material: Nitrile rubber gloves. Minimum layer thickness: 0.7mm. Minimum breakthrough time / gloves: 480 min.

### Eye protection

Wear safety goggles or face shield to prevent any possibility of eye contact. Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

### Other protection

Protective clothing should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. The selected clothing must satisfy the European norm standard EN 943.

### Hygiene measures

DO NOT SMOKE IN WORK AREA! Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.

### Process conditions

Keep container tightly sealed when not in use. Ensure that eye flushing systems are located close by in the work place.

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## Section 9: Physical and chemical properties

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### 9.1 Information on basic physical and chemical properties

<b>Appearance</b>	Viscous liquid.
<b>Colour</b>	White
<b>Odour</b>	Faint hydrocarbon odour.
<b>Odour threshold - lower</b>	No information available as testing has not been completed.
<b>Odour threshold - upper</b>	No information available as testing has not been completed.
<b>pH-Value, Conc. Solution</b>	Not applicable.
<b>pH-Value, Diluted solution</b>	Not applicable.
<b>Melting point</b>	Not applicable.
<b>Initial boiling point and boiling range</b>	Not applicable.
<b>Flash point</b>	40.00 °C
<b>Evaporation rate</b>	Not applicable.
<b>Flammability state</b>	Liquid
<b>Flammability limit - lower(%)</b>	Lower: 1.48%
<b>Flammability limit - upper(%)</b>	Upper: 13.74%
<b>Vapour pressure</b>	Not applicable.
<b>Vapour density (air=1)</b>	Highest known value: 1.1 kPa (8.5 mm Hg) (at 20°C)

<b>Relative density</b>	1.02
<b>Bulk density</b>	No information available as testing has not been completed.
<b>Solubility</b>	Insoluble in cold water.
<b>Decomposition temperature</b>	Stable under normal handling and storage conditions
<b>Partition coefficient; n-Octanol/Water</b>	No information available as testing has not been completed.
<b>Auto ignition temperature (°C)</b>	Lowest known value: 270°C
<b>Viscosity</b>	Kinematic (25°C): = 5.63 cm <sup>2</sup> /s
<b>Explosive properties</b>	Formation of explosive vapour is possible.
<b>Oxidising properties</b>	The product does not meet the criteria to be classified as oxidising.

## 9.2 Other information

<b>Molecular weight</b>	No information available as testing has not been completed.
<b>Volatile organic compound</b>	420g/l (max)
<b>Other information</b>	Volume solids: 58.0% +/- 1.0% Weight Solids: 58.0% +/- 1.0%

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## Section 10: Stability and reactivity

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### 10.1 Reactivity

<b>Reactivity</b>	Reactions may occur with strong oxidising agents.
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### 10.2 Chemical stability

<b>Stability</b>	Stable under normal temperature conditions and recommended use.
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### 10.3 Possibility of hazardous reactions

<b>Hazardous reactions</b>	For information on hazardous reaction see section 10.1.
<b>Hazardous polymerisation</b>	Unknown.
<b>Polymerisation description</b>	Unknown.

### 10.4 Conditions to Avoid

<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition. Extremes of temperature and direct sunlight.
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### 10.5 Incompatible materials

<b>Materials to avoid</b>	Strong oxidising substances. Do not mix with other chemicals unless listed on directions.
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### 10.6 Hazardous decomposition products

<b>Hazardous decomposition products</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.
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## Section 11: Toxicological information

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### 11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008

<b>Toxicological information</b>	No toxicological information for the overall finished product.
<b>Acute toxicity (Oral LD50)</b>	No information available as testing has not been completed.
<b>Acute toxicity (Dermal LD50)</b>	No information available as testing has not been completed.

<b>Acute toxicity (Inhalation LD50)</b>	No information available as testing has not been completed.
<b>Serious eye damage/irritation</b>	Causes serious eye irritation.
<b>Skin corrosion/irritation</b>	The product is not classified as a skin corrosion/irritation hazard.
<b>Respiratory sensitisation</b>	The product is not classified as a respiratory hazard.
<b>Skin sensitisation</b>	The product is classified as a skin sensitisation hazard.
<b>Germ cell mutagenicity</b>	The product is not classified as a mutagen.
<b>Carcinogenicity</b>	The product is not classified as a carcinogen hazard.
<b>Specific target organ toxicity - Single exposure:</b>	
<b>STOT - Single exposure</b>	The product is classified as a single exposure specific target organ toxin.
<b>Specific target organ toxicity - Repeated exposure:</b>	
<b>STOT - Repeated exposure</b>	The product is not classified as a repeat exposure specific target organ toxin.
<b>Inhalation</b>	May cause drowsiness or dizziness.
<b>Ingestion</b>	Prolonged exposure to product may cause irritation to lining of the mouth.
<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dry skin. May cause an allergic skin reaction.
<b>Eye contact</b>	Causes serious eye irritation.
<b>Waste management</b>	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
<b>Routes of entry</b>	Eyes, skin, ingestion or inhalation.
<b>Target organs</b>	Eyes, skin, digestive system, respiratory system.
<b>Aspiration hazards:</b>	The product is not classified as an aspiration hazard.
<b>Reproductive toxicity:</b>	The product is not classified as a reproductive hazard.

Name	LD50 oral	LD50 dermal	LD50 inhalation
1-methoxypropan-2-ol	=4016.00mg/kg Rat		=6500.00ppmV Rat 4 Hours
propionic acid	2600.00mg/kg Rat	525.00mg/kg Rabbit	
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	>5000.00mg/kg Rat >5000.00mg/kg Rat	>5000.00mg/kg Rabbit >5000.00mg/kg Rabbit	>6.10mg/l (vapours) Rat 4 Hours >6.10mg/l (vapours) Rat 4 Hours
2-ethylhexanoic acid, zirconium salt	>5.00g/kg Rat	>5.00g/kg Rabbit	
Isopropoxyethanol	5600.00mg/kg Rat	1440.00mg/kg Rabbit	
Ethanol	7060.00mg/kg Rat		124.70mg/l (vapours) Rat 4 Hours
Naphthalene	>2000.00mg/kg Rat	>2000.00mg/kg Rabbit	
titanium dioxide	10000.00mg/kg Rat		

## 11.2 Information on other hazards

<b>Information on other hazards</b>	None known.
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## Section 12: Ecological information

### 12.1 Toxicity

<b>Acute toxicity - Fish</b>	No information available as testing has not been completed.
<b>Acute toxicity - Aquatic invertebrates</b>	No information available as testing has not been completed.
<b>Acute toxicity - Aquatic plants</b>	No information available as testing has not been completed.
<b>Acute toxicity - Microorganisms</b>	No information available as testing has not been completed.
<b>Chronic toxicity - Fish</b>	No information available as testing has not been completed.
<b>Chronic toxicity - Aquatic invertebrates</b>	No information available as testing has not been completed.
<b>Chronic toxicity - Aquatic plants</b>	No information available as testing has not been completed.
<b>Chronic toxicity - Microorganisms</b>	No information available as testing has not been completed.
<b>Ecotoxicity</b>	The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.
<b>Eco toxicological information</b>	The product contains a substance which is toxic to aquatic organisms.

**12.2 Persistence and degradability**

<b>Degradability</b>	The degradability of the product has not been stated.
<b>Biological oxygen demand</b>	No information available as testing has not been completed.
<b>Chemical oxygen demand</b>	No information available as testing has not been completed.

**12.3 Bioaccumulative potential**

<b>Bioaccumulative potential</b>	No data available on bioaccumulation.
<b>Bioaccumulation factor</b>	No information available as testing has not been completed.
<b>Partition coefficient; n-Octanol/Water</b>	No information available as testing has not been completed.

**12.4 Mobility in soil**

<b>Mobility</b>	Insoluble in cold water.
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**12.5 Results of PBT and vPvB assessment**

**Results of PBT and vPvB assessment** The product does not contain any PBT or vPvB Substances.

**12.6 Endocrine disrupting properties**

**Endocrine disrupting properties** The product does not contain any substances with endocrine disrupting properties at a concentration above or equal to 0.1%.

**12.7 Other adverse effects**

**Other adverse effects** None known.

Name	Acute toxicity (Fish)	Acute toxicity (Aquatic invertebrates)	Acute toxicity (Aquatic plants)
1-methoxypropan-2-ol	LC50 96 Hours =6812.00mg/l Leuciscus idus (Golden Orfe)	LC50 48 Hours =23000.00mg/l Daphnia magna	EC50 =1000.00mg/l Selenastrum Capricornutum
propionic acid	LC50 96 Hours 51.00ppm Onchorhynchus mykiss (Rainbow Trout)	EC50 48 Hours 22.70ppm Daphnia magna	EC50 96 Hours 43.00mg/l
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics	LC50 96 Hours >100.00ppm Freshwater Fish LC50 96 Hours >100.00ppm Freshwater Fish	LC50 48 Hours >100.00ppm Daphnia magna LC50 48 Hours >100.00ppm Daphnia magna	
Isopropoxyethanol		EC50 48 Hours 3610.00ppm Daphnia magna	
Ethanol	LC50 96 Hours 100.00mg/l Pimephales promelas (Fat-head Minnow)		

**Section 13: Disposal considerations**

**Waste management** When handling waste, consideration should be made to the safety precautions applying to handling of the product.

**13.1 Waste treatment methods**

**Disposal methods** Dispose of waste and residues in accordance with local authority requirements, and in accordance with all local, national and international regulations.

**Section 14: Transport information****14.1 UN number or ID number**

<b>UN no. (ADR)</b>	UN1263
<b>UN no. (IMDG)</b>	UN1263
<b>UN no. (IATA)</b>	UN1263

**14.2 UN proper shipping name**

**ADR proper shipping name** PAINT or PAINT RELATED MATERIAL



**IMDG proper shipping name** PAINT or PAINT RELATED MATERIAL  
**IATA proper shipping name** PAINT

**14.3 Transport hazard class(es)**

**ADR class** 3  
**IMDG class** 3  
**IATA class** 3

**Transport labels****14.4 Packing group**

**ADR/RID/ADN packing group** III  
**IMDG packing group** III  
**IATA packing group** III

**14.5 Environmental hazards**

**ADR** Yes  
**IMDG** Yes  
**IATA** Yes

**14.6 Special precautions for user**

**EMS** F-E, S-E  
**Emergency action code** A3 A72 A192  
**Hazard no. (ADR)** 30  
**Tunnel restriction code** (D/E)

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

**Section 15: Regulatory information****15.1 Safety, health and environmental regulations/Legislation specific for the substance or mixture**

**EU legislation** Dangerous Substance Directive 67/548/EEC. Dangerous Preparations Directive 1999/45/EC. 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, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. Reach Regulation (EC) No 453/2010. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

**Approved code of practice** 2021 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2021) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)

**15.2 Chemical safety assessment**

**Chemical safety assessment** No chemical safety assessment has been carried out.

**Section 16: Other information**

**General information** This Safety Data Sheet is in accordance with REACH Annex II, (EC) No 2020/878.  
**Revision comments** [1]Information updated. [2]Information updated. [3]Information updated. [4]Information updated. [8]Information updated. [9]Information updated. [11]Information updated. [15]Information updated. This is a second issue.  
**Revision date** 17 November 2021  
**Revision** 2  
**Safety data sheet status** Approved.

**Hazard statements in full**

<b>EUH066</b>	Repeated exposure may cause skin dryness or cracking.
<b>H226</b>	Flammable liquid and vapour.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H400</b>	Very toxic to aquatic life.
<b>H410</b>	Very toxic to aquatic life with long lasting effects.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>H315</b>	Causes skin irritation.
<b>H318</b>	Causes serious eye damage.
<b>H302</b>	Harmful if swallowed.
<b>H319</b>	Causes serious eye irritation.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>H361</b>	Suspected of damaging fertility or the unborn child .
<b>H312</b>	Harmful in contact with skin.
<b>H332</b>	Harmful if inhaled.
<b>H317</b>	May cause an allergic skin reaction.
<b>H360</b>	May damage fertility or the unborn child .
<b>H351</b>	Suspected of causing cancer .
<b>H225</b>	Highly flammable liquid and vapour.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H335</b>	May cause respiratory irritation.
<b>EUH211</b>	Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

**Disclaimer**

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