

# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
UK REACH Regulations (SI 2019/758 as amended)

Supersedes Date 17/09/2018

Revision date 05/08/2024

Revision Number 3

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

### 1.1. Product identifier

Product Name	FOSROC PRIMER P7
Product Code(s)	1564002 UK9
Safety data sheet number	12741
Unique Formula Identifier (UFI)	JY40-P0QH-M00M-EWS4
Pure substance/mixture	Mixture

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

Recommended use Primers

Uses advised against

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

#### Supplier

Fosroc International Limited  
Drayton Manor Business Park  
Coleshill Road  
Tamworth  
Staffordshire  
B78 3XN  
England  
Tel. +44 (0) 1827 262222  
Fax. +44 (0) 1827 262444

—  
E-mail address enquiryuk@fosroc.com

### 1.4. Emergency telephone number

Emergency Telephone +44 (0) 1827 265 279 (Monday to Sunday, 24 hours a day)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**GB CLP (SI 2020/1567 as amended)**

<b>Flammable liquids</b>	<b>Category 3 - (H226)</b>
<b>Respiratory sensitisation</b>	Category 1 - (H334)
<b>Specific target organ toxicity — single exposure</b>	Category 3 - (H335, H336)
Category 3 Respiratory irritation, Narcotic effects	
<b>Chronic aquatic toxicity</b>	Category 3 - (H412)

**2.2. Label elements****Signal word**

Danger

**Hazard statements**

H226 - Flammable liquid and vapour.

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

H412 - Harmful to aquatic life with long lasting effects.

H336 - May cause drowsiness or dizziness.

EUH208 Contains HEXAMETHYLENE-DI-ISOCYANATE; TOLUENE-DIISOCYANATE. May produce an allergic reaction.

EUH066 - Repeated exposure may cause skin dryness or cracking.

**Precautionary statements**

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.

P370 + P378 - In case of fire: Use dry chemical, CO2, water spray or alcohol-resistant foam to extinguish.

P501 - Dispose of contents/ container to an approved waste disposal plant.

**Unknown aquatic toxicity**

Contains 0 % of components with unknown hazards to the aquatic environment.

**2.3. Other hazards****Other hazards**

This product does not contain any known or suspected endocrine disruptors.

**PBT and vPvB assessment**

The product does not contain any substance(s) classified as PBT or vPvB.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable

**3.2 Mixtures**

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
---------------	----------	---------------------	------------------------------	---	------------------------------------	----------	----------------------

				amended)			
N-BUTYL ACETATE 123-86-4	50 - <100%	204-658-1 (607-025-00 -1)	-	(EUH066) Flam. Liq. 3 (H226) STOT SE 3 (H336)	-	-	-
TRIETHYL ORTHOFORMATE 122-51-0	1 - <2.5%	204-550-4	-	-	-	-	-
TOLUENE 108-88-3	0.025 - <0.25%	203-625-9 (601-021-00 -3)	-	Flam. Liq. 2 (H225) Skin Irrit. 2 (H315) Repr. 2 (H361d) STOT SE 3 (H336) STOT RE 2 (H373) Asp. Tox. 1 (H304) Aquatic Chronic 3 (H412)	-	-	-
TOLUENE-DIISOC YANATE 26471-62-5	0.025 - <0.25%	247-722-4 (615-006-00 -4)	-	Acute Tox. 2 (H330) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) Carc. 2 (H351) STOT SE 3 (H335) Aquatic Chronic 3 (H412)	Resp. Sens. 1 :: C>=0.1%	-	-
HEXAMETHYLENE -DI-ISOCYANATE 822-06-0	0.025 - <0.25%	212-485-8 (615-011-00 -1)	-	Acute Tox. 3 (H331) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) Resp. Sens. 1 (H334) Skin Sens. 1 (H317) STOT SE 3 (H335)	Resp. Sens. 1 :: C>=0.5% Skin Sens. 1 :: C>=0.5%	-	-

**Full text of H- and EUH-phrases: see section 16**

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (UK REACH Article 59)

**SECTION 4: First aid measures****4.1. Description of first aid measures**

<b>General advice</b>	Show this safety data sheet to the doctor in attendance.
<b>Inhalation</b>	May cause allergic respiratory reaction. If breathing has stopped, give artificial respiration. Get medical attention immediately. Remove to fresh air. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Get immediate medical attention.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. May cause an allergic skin reaction. If skin irritation or rash occurs: Get medical advice/attention.
<b>Ingestion</b>	May produce an allergic reaction. Do NOT induce vomiting. Rinse mouth. Get immediate medical attention.
<b>Self-protection of the first aider</b>	Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

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

<b>Symptoms</b>	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Coughing and/ or wheezing. Itching. Rashes. Prolonged contact may cause redness and irritation. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
<b>Effects of Exposure</b>	None known.

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

<b>Note to doctors</b>	May cause sensitisation in susceptible persons. Treat symptomatically.
------------------------	--

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

<b>Suitable Extinguishing Media</b>	Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Alcohol resistant foam.
<b>Large Fire</b>	In case of more serious fires use alcohol-resistant foam and water spray.
<b>Unsuitable extinguishing media</b>	Do not scatter spilled material with high pressure water streams.

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

<b>Specific hazards arising from the chemical</b>	Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Product is or contains a sensitiser. May cause sensitisation by inhalation.
<b>Hazardous combustion products</b>	Carbon oxides. Nitrogen oxides (NO <sub>x</sub> ). Hydrogen cyanide. Isocyanate vapours.

**5.3. Advice for firefighters**

<b>Special protective equipment and precautions for fire-fighters</b>	Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.
---	--

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

<b>Personal precautions</b>	Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded.
<b>Other information</b>	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
<b>For emergency responders</b>	Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

<b>Environmental precautions</b>	Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
----------------------------------	--

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

<b>Methods for containment</b>	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapour suppressing foam may be used to reduce vapours. Dyke far ahead of spill to collect run-off water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.
<b>Methods for cleaning up</b>	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labelled containers. Neutralize by adding a suitable decontaminating solution: Preparation 1: 5-10% sodium carbonate; liquid detergent 0.2-2% and water up to 100%, or Preparation 2: concentrated ammonia solution 3-8%; liquid detergent 0.2-2% and water up to 100%. If Preparation 2 is used, good ventilation should be provided to prevent exposure to ammonia vapor.
<b>Prevention of secondary hazards</b>	Clean contaminated objects and areas thoroughly observing environmental regulations.

**6.4. Reference to other sections**

<b>Reference to other sections</b>	See section 8 for more information. See section 13 for more information.
------------------------------------	--

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

<b>Advice on safe handling</b>	Use personal protection equipment. Avoid breathing vapours or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment.
<b>General hygiene considerations</b>	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

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

<b>Storage Conditions</b>	Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labelled containers. Do not store near combustible materials. Store in accordance with the particular national regulations.
---------------------------	--

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

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

<b>Risk Management Methods (RMM)</b>	The information required is contained in this Safety Data Sheet.
--------------------------------------	--

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

**Exposure Limits**

Chemical name	United Kingdom
N-BUTYL ACETATE 123-86-4	TWA: 150 ppm TWA: 724 mg/m <sup>3</sup> STEL: 200 ppm STEL: 966 mg/m <sup>3</sup>
TOLUENE 108-88-3	TWA: 50 ppm TWA: 191 mg/m <sup>3</sup> STEL: 100 ppm STEL: 384 mg/m <sup>3</sup> Sk*
TOLUENE-DIISOCYANATE 26471-62-5	TWA: 0.02 mg/m <sup>3</sup> STEL: 0.07 mg/m <sup>3</sup> Sen+
HEXAMETHYLENE-DI-ISOCYANATE 822-06-0	TWA: 0.02 mg/m <sup>3</sup> STEL: 0.07 mg/m <sup>3</sup> Sen+

**Biological occupational exposure limits**

Chemical name	United Kingdom
HEXAMETHYLENE-DI-ISOCYANATE 822-06-0	1 mmol isocyanate-derived diamine/mol creatinine - urine ( ) - end of the period of exposure

**Derived No Effect Level (DNEL) - Workers**

Chemical name	Oral	Dermal	Inhalation
TRIETHYL ORTHOFORMATE 122-51-0		1.22 mg/kg bw/day [4] [6]	1.07 mg/m <sup>3</sup> [4] [6]
TOLUENE 108-88-3		384 mg/kg bw/day [4] [6]	192 mg/m <sup>3</sup> [4] [6] 384 mg/m <sup>3</sup> [4] [7] 192 mg/m <sup>3</sup> [5] [6] 384 mg/m <sup>3</sup> [5] [7]
HEXAMETHYLENE-DI-ISOCYANATE 822-06-0			0.035 mg/m <sup>3</sup> [5] [6] 0.07 mg/m <sup>3</sup> [5] [7]

- [4] Systemic health effects.  
 [5] Local health effects.  
 [6] Long term.  
 [7] Short term.

**Derived No Effect Level (DNEL) - General Public**

Chemical name	Oral	Dermal	Inhalation
TRIETHYL ORTHOFORMATE 122-51-0	0.61 mg/kg bw/day [4] [6]		0.264 mg/m <sup>3</sup> [4] [6]
TOLUENE 108-88-3	8.13 mg/kg bw/day [4] [6]		56.5 mg/m <sup>3</sup> [4] [6] 226 mg/m <sup>3</sup> [4] [7] 56.5 mg/m <sup>3</sup> [5] [6] 226 mg/m <sup>3</sup> [5] [7]

- [4] Systemic health effects.

[5]	Local health effects.
[6]	Long term.
[7]	Short term.

**Predicted No Effect Concentration (PNEC)**

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
N-BUTYL ACETATE 123-86-4	0.18 mg/L	0.36 mg/L	0.018 mg/L		
TRIETHYL ORTHOFORMATE 122-51-0	0.17451 mg/L	1.7451 mg/L	0.017451 mg/L		
TOLUENE 108-88-3	0.68 mg/L	0.68 mg/L	0.68 mg/L		
TOLUENE-DIISOCYANAT E 26471-62-5	0.0125 mg/L	0.125 mg/L	0.00125 mg/L		

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
N-BUTYL ACETATE 123-86-4	0.981 mg/kg sediment dw	0.0981 mg/kg sediment dw	35.6 mg/L	0.0903 mg/kg soil dw	
TRIETHYL ORTHOFORMATE 122-51-0	1.52 mg/kg sediment dw	0.152 mg/kg sediment dw	0.14 g/L	2.94 mg/kg soil dw	
TOLUENE 108-88-3	16.39 mg/kg sediment dw	16.39 mg/kg sediment dw	13.61 mg/L	2.89 mg/kg soil dw	
TOLUENE-DIISOCYANAT E 26471-62-5			1 mg/L	1 mg/kg soil dw	
HEXAMETHYLENE-DI-IS OCYANATE 822-06-0			8.42 mg/L		

**8.2. Exposure controls****Engineering controls**

Showers  
Eyewash stations  
Ventilation systems.

**Personal protective equipment****Eye/face protection**

Tight sealing safety goggles. Eye protection must conform to standard EN 166.

**Hand protection**

The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. Impervious gloves. Gloves must conform to standard EN 374.

Gloves			
Duration of contact	PPE - Glove material	Glove thickness	Break through time
Short term	Nitrile rubber	0.4mm	
Short term	Butyl rubber	0.4mm	

<b>Skin and body protection</b>	Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots.
<b>Respiratory protection</b>	Gas filter, type AX.
<b>General hygiene considerations</b>	Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Remove and wash contaminated clothing and gloves, including the inside, before re-use.
<b>Environmental exposure controls</b>	Prevent material from entering surface waters, drains or sewers and soil.

## SECTION 9: Physical and chemical properties

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

<b>Physical state</b>	Liquid
<b>Appearance</b>	Liquid
<b>Colour</b>	Straw
<b>Odour</b>	Pungent.
<b>Odour threshold</b>	Not determined

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
<b>Melting point / freezing point</b>	No data available	Not determined
<b>Initial boiling point and boiling range</b>	125 °C	None known
<b>Flammability</b>	No data available	None known Not determined
<b>Flammability Limit in Air</b>		
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Flash point</b>	27 °C	Closed cup
<b>Autoignition temperature</b>	370 °C	None known
<b>Decomposition temperature</b>		Not determined
<b>pH</b>	No data available	Not applicable
<b>pH (as aqueous solution)</b>	No data available	None known Not applicable
<b>Kinematic viscosity</b>	No data available	Not determined
<b>Dynamic viscosity</b>	No data available	Not determined.
<b>Water solubility</b>	Insoluble in water	None known
<b>Solubility(ies)</b>	Not determined	
<b>Partition coefficient</b>	No data available	Not applicable
<b>Vapour pressure</b>	1.4 kPa	None known
<b>Relative density</b>	1.02	None known
<b>Bulk density</b>	No data available	
<b>Liquid Density</b>	1.02	
<b>Relative vapour density</b>	No data available	Not applicable
<b>Particle characteristics</b>		Not applicable
<b>Particle Size</b>	None known	
<b>Particle Size Distribution</b>	None known	
<b>Explosive properties</b>	Not considered to be explosive.	
<b>Oxidising properties</b>	The mixture itself has not been tested but none of the ingredient substances meet the criteria for classification as oxidising.	

### 9.2. Other information

<b>VOC content</b>	770 g/L 770
--------------------	-------------

## SECTION 10: Stability and reactivity



**10.1. Reactivity**

**Reactivity** Reactions with the following materials may generate heat: Amines. Alcohols, glycols. Water, forming CO<sub>2</sub>; in closed containers, risk of bursting owing to pressure increase.

**10.2. Chemical stability**

**Stability** Stable under normal conditions.

**Explosion data**

**Sensitivity to mechanical impact** None.

**Sensitivity to static discharge** Yes.

**10.3. Possibility of hazardous reactions**

**Possibility of hazardous reactions** None under normal processing.

**10.4. Conditions to avoid**

**Conditions to avoid** Heat, flames and sparks.

**10.5. Incompatible materials**

**Incompatible materials** Hydroxides. Amines.

**10.6. Hazardous decomposition products**

**Hazardous decomposition products** Carbon oxides. Nitrogen oxides (NO<sub>x</sub>). Isocyanate vapours.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects****Information on likely routes of exposure****Product Information**

<b>Inhalation</b>	Specific test data for the substance or mixture is not available. May cause sensitisation in susceptible persons. (based on components). May cause irritation of respiratory tract. May cause drowsiness or dizziness.
<b>Eye contact</b>	Based on available data, the classification criteria are not met.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons. (based on components). Causes mild skin irritation.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. May cause additional affects as listed under "Inhalation".

**Symptoms related to the physical, chemical and toxicological characteristics**

**Symptoms** Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain, or flushing. Coughing and/ or wheezing. Prolonged contact may cause redness and irritation. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

**Acute toxicity****Numerical measures of toxicity**

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral)	470,666.70 mg/kg
ATEmix (dermal)	1,200,000.00 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-vapour)	99,999.00 mg/l
ATEmix (inhalation-dust/mist)	99,999.00 mg/l

**Component Information**

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
N-BUTYL ACETATE	= 10768 mg/kg ( Rat )	> 17600 mg/kg ( Rabbit )	= 0.74 mg/L ( Rat ) 4 h
TRIETHYL ORTHOFORMATE	= 7060 mg/kg ( Rat )	= 18000 mg/kg ( Rabbit )	= 24750 mg/m <sup>3</sup> ( Rat ) 8 h
TOLUENE	= 2600 mg/kg ( Rat )	= 12000 mg/kg ( Rabbit )	= 12.5 mg/L ( Rat ) 4 h
TOLUENE-DIISOCYANATE	= 3060 mg/kg ( Rat )	= 10000 mg/kg ( Rabbit )	= 0.099 mg/L ( Rat ) 4 h
HEXAMETHYLENE-DI-ISOCYANATE	= 738 mg/kg ( Rat )	> 7000 mg/kg ( Rat )	= 0.06 mg/L ( Rat ) 4 h

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Classification based on data available for ingredients. Causes mild skin irritation.

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

**Respiratory or skin sensitisation** May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	United Kingdom
TOLUENE-DIISOCYANATE	Carc. 2

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

The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.

Chemical name	United Kingdom
TOLUENE	Repr. 2

**STOT - single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.

**STOT - repeated exposure** Based on available data, the classification criteria are not met.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**Other adverse effects** None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

**Unknown aquatic toxicity** Contains 0 % of components with unknown hazards to the aquatic environment.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
N-BUTYL ACETATE	EC50: =674.7mg/L (72h, <i>Desmodesmus subspicatus</i> )	LC50: =100mg/L (96h, <i>Lepomis macrochirus</i> ) LC50: 17 - 19mg/L (96h, <i>Pimephales promelas</i> )	-	-
TOLUENE	EC50: >433mg/L (96h, <i>Pseudokirchneriella subcapitata</i> ) EC50: =12.5mg/L (72h, <i>Pseudokirchneriella subcapitata</i> )	LC50: 15.22 - 19.05mg/L (96h, <i>Pimephales promelas</i> ) LC50: =12.6mg/L (96h, <i>Pimephales promelas</i> ) LC50: 5.89 - 7.81mg/L (96h, <i>Oncorhynchus mykiss</i> ) LC50: 14.1 - 17.16mg/L (96h, <i>Oncorhynchus mykiss</i> ) LC50: =5.8mg/L (96h, <i>Oncorhynchus mykiss</i> ) LC50: 11.0 - 15.0mg/L (96h, <i>Lepomis macrochirus</i> ) LC50: =54mg/L (96h, <i>Oryzias latipes</i> ) LC50: =28.2mg/L (96h, <i>Poecilia reticulata</i> ) LC50: 50.87 - 70.34mg/L (96h, <i>Poecilia reticulata</i> )	-	EC50: 5.46 - 9.83mg/L (48h, <i>Daphnia magna</i> ) EC50: =11.5mg/L (48h, <i>Daphnia magna</i> )
HEXAMETHYLENE-DI-ISOCYANATE	-	LC50: =26.1mg/L (96h, <i>Brachydanio rerio</i> )	-	-

### 12.2. Persistence and degradability

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

### 12.3. Bioaccumulative potential

**Bioaccumulation** Not expected to be bioaccumulative.

#### Component Information

Chemical name	Partition coefficient
N-BUTYL ACETATE	2.3
TRIETHYL ORTHOFORMATE	1.2
TOLUENE	2.73
TOLUENE-DIISOCYANATE	3.43

**12.4. Mobility in soil**

**Mobility in soil** Insoluble in water.

**12.5. Results of PBT and vPvB assessment**

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB.

Chemical name	PBT and vPvB assessment
N-BUTYL ACETATE	The substance is not PBT / vPvB
TRIETHYL ORTHOFORMATE	The substance is not PBT / vPvB
TOLUENE	The substance is not PBT / vPvB
TOLUENE-DIISOCYANATE	The substance is not PBT / vPvB
HEXAMETHYLENE-DI-ISOCYANATE	The substance is not PBT / vPvB

**12.6. Other adverse effects**

None known.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

**Waste from residues/unused products** Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.

**SECTION 14: Transport information****IATA**

14.1 UN number or ID number 1866  
 14.2 UN proper shipping name RESIN SOLUTION  
 14.3 Transport hazard class(es) 3  
 14.4 Packing group III  
 14.5 Environmental hazards Not applicable  
 14.6 Special precautions for user  
     Special Provisions None

**IMDG**

14.1 UN number or ID number 1866  
 14.2 UN proper shipping name RESIN SOLUTION  
 14.3 Transport hazard class(es) 3  
 14.4 Packing group III  
 14.5 Environmental hazards Not applicable  
 14.6 Special precautions for user  
     Special Provisions None  
 14.7 Maritime transport in bulk according to IMO instruments Not applicable.

**RID**

14.1 UN number or ID number 1866  
 14.2 UN proper shipping name RESIN SOLUTION  
 14.3 Transport hazard class(es) 3  
 14.4 Packing group III

14.5 Environmental hazards Not applicable

14.6 Special precautions for user

Special Provisions None  
Classification code F1

#### ADR

14.1 UN number or ID number 1866  
14.2 UN proper shipping name RESIN SOLUTION  
14.3 Transport hazard class(es) 3  
14.4 Packing group III  
14.5 Environmental hazards Not applicable  
14.6 Special precautions for user  
Special Provisions None  
Classification code F1

## SECTION 15: Regulatory information

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

Control of Substances Hazardous to Health Regulations 2002 (as amended). Workplace Exposure Limits EH40

#### Authorisations and/or restrictions on use:

This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

Chemical name	Restricted substance per REACH Annex XVII	Substance subject to authorisation per REACH Annex XIV
TOLUENE - 108-88-3	Use restricted. See item 48.	-
TOLUENE-DIISOCYANATE - 26471-62-5	Use restricted. See item 74.	-
HEXAMETHYLENE-DI-ISOCYANATE - 822-06-0	Use restricted. See item 74.	-

#### Persistent Organic Pollutants

Not applicable

#### Export Notification requirements

Not applicable

#### Dangerous substance category per COMAH (SI 2015/483 as amended)

P5a - FLAMMABLE LIQUIDS

P5b - FLAMMABLE LIQUIDS

P5c - FLAMMABLE LIQUIDS

#### Named dangerous substances per COMAH (SI 2015/483 as amended)

Not applicable

#### The Ozone-Depleting Substances Regulations 2015

Not applicable

#### The Biocidal Products Regulations 2001 (as amended)

Not applicable

#### The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended)

Not applicable

#### Poisons and Explosive Precursors

Not applicable

#### Other Regulations

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). 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).

### International Inventories

#### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AIC** - Australian Inventory of Industrial Chemicals  
**NZIoC** - New Zealand Inventory of Chemicals  
**TCSI** - Taiwan Chemical Substance Inventory

### 15.2. Chemical safety assessment

#### **Chemical Safety Report**

No chemical safety assessment has been carried out.

## **SECTION 16: Other information**

### Key or legend to abbreviations and acronyms used in the safety data sheet

#### **Full text of H-Statements referred to under section 3**

H225 - Highly flammable liquid and vapour  
H226 - Flammable liquid and vapour  
H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H317 - May cause an allergic skin reaction  
H319 - Causes serious eye irritation  
H330 - Fatal if inhaled  
H331 - Toxic 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  
H351 - Suspected of causing cancer  
H361d - Suspected of damaging the unborn child  
H373 - May cause damage to organs through prolonged or repeated exposure  
H412 - Harmful to aquatic life with long lasting effects

#### **Legend**

SVHC: Substances of Very High Concern for Authorisation:  
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances  
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances  
STOT: Specific Target Organ Toxicity  
ATE: Acute Toxicity Estimate  
LC50: 50% Lethal Concentration  
LD50: 50% Lethal Dose

#### **Legend Section 8: Exposure controls/personal protection**

TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	Sk*	Skin designation
+	Sensitisers		

#### Classification procedure

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Method Used

Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	On basis of test data
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
Reproductive toxicity	Calculation method
STOT - single exposure	On basis of test data
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method
Flammable liquids	On basis of test data

**Key literature references and sources for data used to compile the SDS**

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA\_RAC)  
European Chemicals Agency (ECHA) (ECHA\_API)  
Environmental Protection Agency  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
National Institute of Technology and Evaluation (NITE)  
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
U.S. National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

<b>Supersedes Date</b>	17/09/2018
<b>Revision date</b>	05/08/2024
<b>Reason for revision</b>	Updated as per GHS
<b>Restrictions on use</b>	For professional use only

**This SDS complies with the requirements of UK REACH Regulations SI 2019/758 (as amended)**

**Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work**

**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The 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, unless specified in the text.

**End of Safety Data Sheet**