

# SAFETY DATA SHEET

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

Revision date 21/06/2023

Revision Number 6

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

### 1.1. Product identifier

**Product Code(s)** A1711113UK9, A1711115UK9, A1711391UK9

**Safety data sheet number** 12436

**Product Name** NITOBOND EP BASE

**Unique Formula Identifier (UFI)** 4D50-705H-5003-RMPF

**Pure substance/mixture** Mixture

Contains bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, EPOXY RESIN (Type F) (Number average MW <= 700 )

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

**Recommended use** Base Component of Two-Part Epoxy Adhesive System

**Uses advised against** Consumer use

### 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

For further information, please contact

**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

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Skin sensitisation	Category 1 - (H317)
Chronic aquatic toxicity	Category 2 - (H411)

## 2.2. Label elements

Contains bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, EPOXY RESIN (Type F) (Number average MW <= 700 )



### Signal word

Warning

### Hazard statements

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H411 - Toxic to aquatic life with long lasting effects

### Precautionary statements

P273 - Avoid release to the environment

P280 - Wear protective gloves and eye/face protection

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

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 and container in accordance with national regulations.

## 2.3. Other hazards

Toxic to aquatic life. This product does not contain any substances classified as PBT or vPvB according to current EU criteria.

## 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 amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE	50 - <100%	216-823-5	-	Aquatic Chronic 2 (H411) Eye Irrit. 2 (H319)	Eye Irrit. 2 :: C>=5% Skin Irrit. 2 ::	-	-

1675-54-3				Skin Irrit. 2 (H315) Skin Sens. 1 (H317)	C>=5%		
EPOXY RESIN (Type F) (Number average MW <= 700 ) 9003-36-5	10 - <25%	500-006-8	-	Aquatic Chronic 2 (H411) Skin Irrit. 2 (H315) Skin Sens. 1 (H317)	-	-	-
DI-ISO-DECYL PHTHALATE 68515-49-1	5 - <10%	271-091-4	-	-	-	-	-
TITANIUM DIOXIDE 13463-67-7	5 - <10%	236-675-5	-	Carc. 2 (H351i)	-	-	-
CALCIUM CARBONATE (STEARATE COATED) 471-34-1	5 - <10%	207-439-9	-	-	-	-	-

**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>	Remove to fresh air. Get medical attention immediately if symptoms occur.
<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	May cause an allergic skin reaction. In the case of skin irritation or allergic reactions see a doctor. Wash off immediately with soap and plenty of water for at least 15 minutes.
<b>Ingestion</b>	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Get medical attention if symptoms occur.
<b>Self-protection of the first aider</b>	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

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

**Symptoms** Itching. Rashes. Hives. May cause redness and tearing of the eyes. Burning sensation.

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

**Note to doctors** May cause sensitisation in susceptible persons. Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Dry chemical, CO<sub>2</sub>, alcohol-resistant foam or water spray.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

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

**Specific hazards arising from the chemical** Product is or contains a sensitiser. May cause sensitisation by skin contact.

**Hazardous combustion products** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>).

### **5.3. Advice for firefighters**

**Special protective equipment and precautions for fire-fighters** 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**

**Personal precautions** Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

### **6.2. Environmental precautions**

**Environmental precautions** 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**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up with sand or other noncombustible absorbent material and place into containers for later disposal.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

### **6.4. Reference to other sections**

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash it before reuse.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

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

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep/store only in original container.

## 7.3. Specific end use(s)

### Specific use(s)

See section 1 for more information.

**Risk Management Methods (RMM)** 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
TITANIUM DIOXIDE 13463-67-7	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>
CALCIUM CARBONATE (STEARATE COATED) 471-34-1	TWA: 10 mg/m <sup>3</sup> TWA: 4 mg/m <sup>3</sup> STEL: 30 mg/m <sup>3</sup> STEL: 12 mg/m <sup>3</sup>

**Biological occupational exposure limits** This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

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

Chemical name	Oral	Dermal	Inhalation
bis[4-(2,3-EPOXYPROPOXY)PHENYL] PROPANE 1675-54-3		0.75 mg/kg bw/day [4] [6]	4.93 mg/m <sup>3</sup> [4] [6]
DI-ISO-DECYL PHTHALATE 68515-49-1		41.67 mg/kg bw/day [4] [6]	5.29 mg/m <sup>3</sup> [4] [6]
CALCIUM CARBONATE (STEARATE COATED) 471-34-1			6.36 mg/m <sup>3</sup> [5] [6]

[4] Systemic health effects.

[5] Local health effects.

[6] Long term.

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

Chemical name	Oral	Dermal	Inhalation
bis[4-(2,3-EPOXYPROPOXY)PHENYL] PROPANE	0.5 mg/kg bw/day [4] [6]		0.87 mg/m <sup>3</sup> [4] [6]

Chemical name	Oral	Dermal	Inhalation
1675-54-3			
DI-ISO-DECYL PHTHALATE 68515-49-1	0.75 mg/kg bw/day [4] [6]		1.3 mg/m <sup>3</sup> [4] [6]
CALCIUM CARBONATE (STEARATE COATED) 471-34-1	6.1 mg/kg bw/day [4] [6] 6.1 mg/kg bw/day [4] [7]		1.06 mg/m <sup>3</sup> [5] [6]

[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
bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE 1675-54-3	0.006 mg/L	0.018 mg/L	0.0006 mg/L	0.0018 mg/L	

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE 1675-54-3	0.341 mg/kg sediment dw	0.0341 mg/kg sediment dw	10 mg/L	0.0647 mg/kg soil dw	11 mg/kg food
CALCIUM CARBONATE (STEARATE COATED) 471-34-1			100 mg/L		

## 8.2. Exposure controls

### Engineering controls

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

### Personal protective equipment

#### Eye/face protection

Wear safety glasses with side shields (or goggles).

#### Hand protection

Wear suitable gloves. Impervious gloves. 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. Butyl rubber. Nitrile rubber. Polyvinyl chloride (PVC).

#### Skin and body protection

Wear suitable protective clothing. Long sleeved clothing.

#### Respiratory protection

Respiration protection is not normally required. If exposure limits are exceeded, use appropriate protection.

#### Recommended filter type:

Filter type A, brown.

**General hygiene considerations** Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

## SECTION 9: Physical and chemical properties

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

<b>Physical state</b>	Liquid
<b>Appearance</b>	Viscous Liquid
<b>Colour</b>	white
<b>Odour</b>	Characteristic.
<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>	No data available	Not determined
<b>Flammability</b>	No data available	Not determined
<b>Flammability Limit in Air</b>		Not determined
<b>Upper flammability or explosive limits</b>	No data available	
<b>Lower flammability or explosive limits</b>	No data available	
<b>Flash point</b>	> 150 °C	Closed cup
<b>Autoignition temperature</b>	No data available	Not determined
<b>Decomposition temperature</b>		Not applicable
<b>pH</b>	No data available	Not applicable
<b>pH (as aqueous solution)</b>	No data available	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	Insoluble
<b>Solubility(ies)</b>	Soluble in Organic solvents	No data available
<b>Partition coefficient</b>	No data available	Not applicable
<b>Vapour pressure</b>	<0.1	kPa at 20 °C
<b>Relative density</b>	1.12	@ 20 °C
<b>Bulk density</b>	No data available	
<b>Liquid Density</b>	No data available	
<b>Relative vapour density</b>	No data available	Not determined
<b>Particle characteristics</b>		Not applicable
<b>Particle Size</b>	No information available	
<b>Particle Size Distribution</b>	No information available	
<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** no data available.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity** The reactivity will be typical of the following groups: Epoxies.

### 10.2. Chemical stability

**Stability** Stable under normal conditions.

**Explosion data**

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** Reacts with substances which contain active hydrogen.

### 10.4. Conditions to avoid

**Conditions to avoid** Avoid excessive heat for prolonged periods of time.

### 10.5. Incompatible materials

**Incompatible materials** Strong acids. Strong bases. Strong oxidising agents.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Thermal decomposition or combustion products may include the following substances:  
Carbon oxides.

## **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 irritation of respiratory tract.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
<b>Skin contact</b>	May cause sensitisation by skin contact. 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 skin irritation.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

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

**Symptoms** Itching. Rashes. Hives. Redness. May cause redness and tearing of the eyes.

#### Acute toxicity

#### Numerical measures of toxicity

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

ATEmix (oral)	5,833.60 mg/kg
ATEmix (dermal)	12,227.40 mg/kg
ATEmix (inhalation-gas)	99,999.00 ppm
ATEmix (inhalation-dust/mist)	18.10 mg/l
ATEmix (inhalation-vapour)	99,999.00 mg/l

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
bis[4-(2,3-EPOXYPROPOXY)P	= 11300 µL/kg ( Rat )	= 20000 mg/kg ( Rabbit )	-



HENYL]PROPANE			
EPOXY RESIN (Type F) (Number average MW <= 700 )	> 2 g/kg ( Rat )	-	-
DI-ISO-DECYL PHTHALATE	> 60000 mg/kg ( Rat )	= 16000 mg/kg ( Rabbit )	> 0.13 mg/L ( Rat ) 6 h
TITANIUM DIOXIDE	> 10000 mg/kg ( Rat )	-	= 5.09 mg/L ( Rat ) 4 h
CALCIUM CARBONATE (STEARATE COATED)	= 6450 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	> 3 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 skin irritation.

**Serious eye damage/eye irritation** Classification based on data available for ingredients. Causes serious eye irritation.

**Respiratory or skin sensitisation** May cause an allergic skin reaction.

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

**Carcinogenicity** The classification as a carcinogen by inhalation applies only to mixtures in powder form. This mixture is not supplied in powder form.\*\*\*

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

Chemical name	United Kingdom
TITANIUM DIOXIDE	Carc. 2

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

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

**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** No information available.

**SECTION 12: Ecological information**

**12.1. Toxicity**

**Ecotoxicity** Toxic to aquatic life. Toxic 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	Crustacea

			microorganisms	
DI-ISO-DECYL PHTHALATE	EC50: >1.3mg/L (96h, Pseudokirchneriella subcapitata)	LC50: >0.66mg/L (96h, Pimephales promelas) LC50: >1mg/L (96h, Pimephales promelas) LC50: >1mg/L (96h, Oncorhynchus mykiss) LC50: >0.62mg/L (96h, Oncorhynchus mykiss) LC50: >0.55mg/L (96h, Lepomis macrochirus)	-	EC50: >0.18mg/L (48h, Daphnia magna)

### 12.2. Persistence and degradability

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

### 12.3. Bioaccumulative potential

**Bioaccumulation** Material may have some potential to bioaccumulate.

#### Component Information

Chemical name	Partition coefficient
bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE	2.33
DI-ISO-DECYL PHTHALATE	8.8

### 12.4. Mobility in soil

**Mobility in soil** Insoluble in water. Not considered mobile.

### 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
bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE	The substance is not PBT / vPvB
EPOXY RESIN (Type F) (Number average MW <= 700 )	The substance is not PBT / vPvB
DI-ISO-DECYL PHTHALATE	The substance is not PBT / vPvB
TITANIUM DIOXIDE	The substance is not PBT / vPvB PBT assessment does not apply
CALCIUM CARBONATE (STEARATE COATED)	The substance is not PBT / vPvB PBT assessment does not apply

### 12.6. Other adverse effects

**Other adverse effects** None known.

**Endocrine disrupting properties** This product does not contain any known or suspected endocrine disruptors.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## SECTION 14: Transport information

### IATA

14.1 UN number or ID number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, EPOXY RESIN (Type F) (Number average MW <=700))
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	None

### IMDG

14.1 UN number or ID number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(CONTAINS bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, EPOXY RESIN (Type F) (Number average MW <=700))
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	None
EmS-No	F-A, S-F
14.7 Maritime transport in bulk according to IMO instruments	Not applicable

### RID

14.1 UN number or ID number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.(CONTAINS bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, EPOXY RESIN (Type F) (Number average MW <=700))
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	Hazard Identification Number 90
Classification code	M6

### ADR

14.1 UN number or ID number	UN3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS bis[4-(2,3-EPOXYPROPOXY)PHENYL]PROPANE, EPOXY RESIN (Type F) (Number average MW <=700))
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environmental hazards	Yes
14.6 Special precautions for user	
Special Provisions	Emergency Action Code ●3Z
Classification code	M6
Tunnel restriction code	(-)

## SECTION 15: Regulatory information

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

**National regulations**

REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758 Control of Substances Hazardous to Health Regulations 2002 (as amended).

**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
DI-ISO-DECYL PHTHALATE - 68515-49-1	Use restricted. See item 52[b].	-

**Persistent Organic Pollutants**

Not applicable

**Export Notification requirements**

Not applicable

**Dangerous substance category per COMAH Regulations 2015 (as amended)**

E2 - Hazardous to the Aquatic Environment in Category Chronic 2

**Named dangerous substances per COMAH Regulations 2015 (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 Act 1972 (Explosive Precursors) Regulations (as Amended)**

Not applicable

**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**

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H319 - Causes serious eye irritation

H351i - Suspected of causing cancer if inhaled

H411 - Toxic to aquatic life with long lasting effects

**Legend**

SVHC: Substances of Very High Concern for Authorisation:

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

STEL

STEL (Short Term Exposure Limit)

TWA	TWA (time-weighted average)		
Ceiling	Maximum limit value	*	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	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	On basis of test data
Reproductive toxicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

**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)  
 EPA (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)  
 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

**Revision date** 21/06/2023

**Reason for revision** This is the first issue.

**Restrictions on use** For professional use only

**This material safety data sheet 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**