

SAFETY DATA SHEET NITOPROOF UVR TOPCOAT BASE

This SDS is not mandated under REACH Regulation (EC) No 1907/2006 and is provided for information only.

SECTION 1: Identification of the substance/mixture and of the company/undertaking				
1.1. Product identifier				
Product name	NITOPROOF UVR TOPCOAT BASE			
Product number	1982500, 1982501, 1982505, 1982506, 1982510, 19 1982526, 1982530, 1982531, 1982535, 1982536, -	982511, 1982520, 1982521, 1982525, R UK9		
1.2. Relevant identified uses of	the substance or mixture and uses advised against			
Identified uses	Base component of polyurethane based flooring.			
1.3. Details of the supplier of the	e safety data sheet			
Supplier	FOSROC Limited DO NOT USE			
1.4. Emergency telephone num	nber			
Emergency telephone	+44 (0) 1827 265 279 (Monday-Sunday 24 hours a	day)		
SECTION 2: Hazards identifica	tion			
2.1. Classification of the substa	ance or mixture			
Classification (EC 1272/2008)				
Physical hazards	Not Classified			
Health hazards	Not Classified			
Environmental hazards	Not Classified			
Human health	See Section 11 for additional information on health h	nazards.		
Environmental	The product is not expected to be hazardous to the environment.			
2.2. Label elements				
Hazard statements	NC Not Classified			
2.3. Other hazards				
This product does not contain a	any substances classified as PBT or vPvB.			
SECTION 3: Composition/information on ingredients				
3.2. Mixtures				
2-METHOXY-1-METHYLETH	YL ACETATE	1 - 10%		
CAS number: 108-65-6	EC number: 203-603-9	REACH registration number: 01- 2119475791-29		
Classification				
Flam. Liq. 3 - H226				

NITOPROOF UVR TOPCOAT BASE

ETHYL ACETATE		0.5 - 1%		
CAS number: 141-78-6	EC number: 205-500-4	REACH registration number: 01- 2119475103-46		
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336				
The Full Text for all R-Phrases	and Hazard Statements are Displayed in Section 16).		
Composition comments	The information in this section has changed since the	he last version.		
SECTION 4: First aid measure	S			
4.1. Description of first aid mea	Isures			
General information	Move affected person to fresh air and keep warm a breathing.	nd at rest in a position comfortable for		
Inhalation	Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Keep affected person under observation.			
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.			
Skin contact	Remove affected person from source of contamination. Remove contaminated clothing immediately and wash skin with soap and water.			
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse with water. Continue to rinse for at least 15 minutes. Get medical attention if any discomfort continues.			
4.2. Most important symptoms and effects, both acute and delayed				
General information	No specific symptoms noted.			
4.3. Indication of any immediat	e medical attention and special treatment needed			
Notes for the doctor	Treat symptomatically.			
SECTION 5: Firefighting measure	ures			
5.1. Extinguishing media				
Suitable extinguishing media	Extinguish with the following media: Foam, carbon sand, dolomite etc.	dioxide or dry powder. Dry chemicals,		
5.2. Special hazards arising from the substance or mixture				
Specific hazards	During fire, gases hazardous to health may be form noted.	ed. No unusual fire or explosion hazards		
Hazardous combustion products	Carbon dioxide (CO2). Carbon monoxide (CO).			
5.3. Advice for firefighters				
Protective actions during firefighting	Move containers from fire area if it can be done with precautions known. Control run-off water by contain watercourses.	nout risk. No specific firefighting ning and keeping it out of sewers and		
SECTION 6: Accidental release	SECTION 6: Accidental release measures			

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	For personal protection, see Section 8.				
6.2. Environmental precaution	<u>s</u>				
Environmental precautions	Avoid the spillage or runoff entering drains, sewers or watercourses.				
6.3. Methods and material for	containment and cleaning up				
Methods for cleaning up	Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. 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. For waste disposal, see Section 13.				
6.4. Reference to other sections					
Reference to other sections For waste disposal, see section 13.					
SECTION 7: Handling and storage					
7.1. Precautions for safe handling					
Usage precautions	For professional users only. Good personal hygiene procedures should be implemented.				
7.2. Conditions for safe storage	e, including any incompatibilities				
Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place.				
Storage class	Chemical storage.				
7.3. Specific end use(s)					
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.				
SECTION 8: Exposure contro	Is/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

ETHYL ACETATE

Long-term exposure limit (8-hour TWA): WEL 200 ppm Short-term exposure limit (15-minute): WEL 400 ppm WEL = Workplace Exposure Limit Sk = Can be absorbed through skin.

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

DNEL	Workers - Inhalation; Long term systemic effects: 275 mg/m ³ Workers - Dermal; Long term systemic effects: 153.5 mg/kg bw/day General population - Inhalation; Long term systemic effects: 33 mg/m ³ General population - Dermal; Long term systemic effects: 54.8 mg/kg bw/day
PNEC	- Aqua, Fresh water; 0.635 mg/l - Aqua, marine water; 0.0635 mg/l

ETHYL ACETATE (CAS: 141-78-6)

DNEL	Industry - Inhalation; Long term systemic effects, local effects: 734 mg/m³ Industry - Inhalation; Short term systemic effects, local effects: 1468 mg/m³ Industry - Dermal: Long term systemic effects: 63 mg/kg/day		
PNEC	- marine water; 0.024 mg/l - Fresh water; 0.24 mg/l - Sediment (Marinewater); 0.115 mg/kg - Sediment (Freshwater); 1.15 mg/kg		
	ACETYLACETONE (CAS: 123-54-6)		
DNEL	Workers - Inhalation; Long term systemic effects: 84 mg/m³ Workers - Dermal; Long term systemic effects: 12 mg/kg bw/day General population - Oral; Long term systemic effects: 7 mg/kg bw/day		
PNEC	- Fresh water; 0.2 mg/l Aqua - marine water; 0.02 mg/l		
8.2. Exposure controls			
Protective equipment			
Appropriate engineering controls	Provide adequate general and local exhaust ventilation.		
Eye/face protection	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. The following protection should be worn: Chemical splash goggles.		
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. It is recommended that gloves are made of the following material: Polyvinyl chloride (PVC). Rubber (natural, latex).		
Other skin and body protection	Wear appropriate clothing to prevent any possibility of skin contact. Wear apron or protective clothing in case of contact.		
Hygiene measures	Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash promptly if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat, drink or smoke.		
Respiratory protection	No specific recommendations.		
SECTION 9: Physical and c	hemical properties		
9.1. Information on basic ph	ysical and chemical properties		

Appearance	Liquid.
Colour	Various colours.
Odour	Characteristic.
Odour threshold	Not determined.
рН	Not applicable.
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	Not applicable.

Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not determined.
Other flammability	Not applicable.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	~ 1.08 g/cm3 @ 20 °C
Bulk density	Not applicable.
Solubility(ies)	Insoluble in water.
Partition coefficient	Not determined.
Auto-ignition temperature	Not determined.
Decomposition Temperature	Not determined.
Viscosity	Not determined.
Explosive properties	Not considered to be explosive.
Explosive under the influence of a flame	Not considered to be explosive.
Oxidising properties	Does not meet the criteria for classification as oxidising.
9.2. Other information	
Other information	No data available.
SECTION 10: Stability and rea	ctivity
10.1. Reactivity	
Reactivity	There are no known reactivity hazards associated with this product.
10.2. Chemical stability	
Stability	Stable at normal ambient temperatures.
10.3. Possibility of hazardous r	reactions
Possibility of hazardous reactions	None known.
10.4. Conditions to avoid	
Conditions to avoid	Avoid excessive heat for prolonged periods of time.
10.5. Incompatible materials	
Materials to avoid	Strong oxidising agents.
10.6. Hazardous decompositio	n products
Hazardous decomposition products	Does not decompose when used and stored as recommended.
SECTION 11: Toxicological inf	ormation

11.1. Information	ation on toxicologica	l effects		
Toxicologica	ical effects This product has low toxicity.			
Acute toxicity	y - dermal			
ATE dermal	(mg/kg) 6	60,000.0		
Acute toxicity	y - inhalation			
ATE inhalatio mg/l)	on (dusts/mists	100.0		
General info	rmation N	No specif	fic health hazards known.	
Medical sym	ptoms N	No specif general o	fic symptoms noted, but this chemical may still have adverse health impact, either in or on certain individuals.	
Toxicologica	l information on ingr	edients.		
			2-METHOXY-1-METHYLETHYL ACETATE	
	Acute toxicity - oral			
	Acute toxicity oral (mg/kg)	LD₅₀	8,532.0	
	Species		Rat	
Acute toxicity - dermal				
Acute toxicity dermal (LD₅₀ mg/kg) Species		al (LD₅₀	5,000.0	
			Rabbit	
			ETHYL ACETATE	
	Acute toxicity - oral			
	Acute toxicity oral (mg/kg)	LD₅₀	5,620.0	
	Species		Rat	
	Acute toxicity - derr	nal		
	Acute toxicity derm mg/kg)	al (LD₅₀	18,000.0	
	Species		Rabbit	
	Specific target orga	n toxicity	y - single exposure	
	STOT - single expo	sure	May cause drowsiness or dizziness.	
SECTION 12	2: Ecological informa	ation		
Ecotoxicity	٦ f	The prod requent :	uct components are not classified as environmentally hazardous. However, large or spills may have hazardous effects on the environment.	
12.1. Toxicity	Y			
Toxicity	1	Not expe	cted to be ecotoxic to fish/daphnia/algae	
Ecological in	formation on ingred	ients.		

2-METHOXY-1-METHYLETHYL ACETATE

	Acute aquatic tox	icity			
	Acute toxicity - fis	h	LC₅₀, 96 hours: 100-180 mg/l, Oncorhynchus mykiss (Rainbow trout)		
Acute toxicity - aquatic invertebrates		quatic	EC₅₀, 48 hours: 500 mg/l, Daphnia magna		
ETHYL A			ETHYL ACETATE		
	Acute aquatic toxicity				
	Acute toxicity - fis	sh	LC50, 96 hours: 350 - 600 mg/l, Oncorhynchus mykiss (Rainbow trout) LC50, 96 hours: 220 - 250 mg/l, Pimephales promelas (Fat-head Minnow)		
	Acute toxicity - ac invertebrates	quatic	EC₅₀, 48 hours: 560 mg/l, Daphnia magna		
	Acute toxicity - ac plants	quatic	EC₅₀, 24 hours: 4300 mg/l, Freshwater algae EC₅₀, 72 hours: 1800 - 3200 mg/l, Selenastrum capricornutum		
12.2. Persist	tence and degrada	bility			
Persistence	and degradability	There ar	e no data on the degradability of this product.		
Ecological in	nformation on ingre	edients.			
ETHYL ACETATE					
	Biodegradation		- Degradation (%) 79: The substance is readily biodegradable.		
12.3. Bioacc	cumulative potentia	<u>l</u>			
Bioaccumula	Bioaccumulative potential No data available on bioaccumulation.				
Partition coefficient Not determined.					
Ecological in	nformation on ingre	edients.			
			ETHYL ACETATE		
	Bioaccumulative	potential	BCF: 30,		
12.4. Mobilit	y in soil				
Mobility		Insoluble	e in water. Not considered mobile.		
12.5. Result	s of PBT and vPvE	3 assessm	nent		
Results of P assessment	BT and vPvB	This pro	duct does not contain any substances classified as PBT or vPvB.		
12.6. Other a	adverse effects				
Other advers	se effects	None kn	own.		
SECTION 1	3: Disposal consid	erations			
13.1. Waste	treatment method	s			
General info	rmation	When ha	andling waste, the safety precautions applying to handling of the product should be red.		
Disposal me	thods	Dispose local Wa	of waste to licensed waste disposal site in accordance with the requirements of the iste Disposal Authority.		

SECTION 14: Transport information

General

The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

Not applicable.

14.2. UN proper shipping name

Not applicable.

14.3. Transport hazard class(es)

No transport warning sign required.

14.4. Packing group

Not applicable.

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant No.

14.6. Special precautions for user

Not applicable.

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 envir	onmental regulations/legislation specific for the substance or mixture		
National regulations	Control of Substances Hazardous to Health Regulations 2002 (as amended).		
EU legislation	Commission Regulation (EU) No 453/2010 of 20 May 2010. 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).		
Guidance	Workplace Exposure Limits EH40. Respiratory protective equipment at work (HSG53).		
Authorisations (Annex XIV Regulation 1907/2006)	No specific authorisations are known for this product.		
Restrictions (Annex XVII Regulation 1907/2006)	No specific restrictions on use are known for this product.		
15.2. Chemical safety assess	ment		

No chemical safety assessment has been carried out.

SECTION 16: Other information

General information

Only trained personnel should use this material. For professional users only.

Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	21/11/2019
Revision	3c
Supersedes date	11/11/2019
Hazard statements in full	H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H319 Causes serious eye irritation. H336 May cause drowsiness or dizziness.

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.



SAFETY DATA SHEET NITOPROOF UVR TOPCOAT HARDENER

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

1.1. Product identifier

Product name NITOPROOF UVR TOPCOAT HARDENER

 Product number
 1982500 UK9, 1982501 UK9, 1982505 UK9, 1982506 UK9, 1982510 UK9, 1982511 UK9, 1982520 UK9, 1982520 UK9, 1982521 UK9, 1982525 UK9, 1982526 UK9, 1982530 UK9, 1982531 UK9, 1982535 UK9, 1982535 UK9, 1982536 UK9

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

Identified uses

Hardener component for Polyurethane based floor-coating system.

1.3. Details of the supplier of the safety data sheet

Supplier								

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

1.4. Emergency telephone number

Emergency telephone

+44 (0) 1827 265 279 (Monday-Sunday 24 hours a day)

SECTION 2: Hazards identification

2.1. Classification of the substa	ance or mixture
Classification (EC 1272/2008)	
Physical hazards	Not Classified
Health hazards	Acute Tox. 4 - H332 Resp. Sens. 1 - H334 Skin Sens. 1 - H317
Environmental hazards	Not Classified
Human health	Contains non-volatile isocyanate. Heating may generate vapours which irritate the respiratory system. May cause respiratory allergy.
2.2. Label elements	
Hazard pictograms	
Signal word	Danger

Hazard statements	H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H317 May cause an allergic skin reaction.
Precautionary statements	 P261 Avoid breathing vapour/ spray. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing. P501 Dispose of contents/ container in accordance with national regulations.
Supplemental label information	EUH204 Contains isocyanates. May produce an allergic reaction.
Contains	ALIPHATIC POLYISOCYANATE , HEXAMETHYLENE-DI-ISOCYANATE
Supplementary precautionary statements	 P271 Use only outdoors or in a well-ventilated area. P272 Contaminated work clothing should not be allowed out of the workplace. P284 [In case of inadequate ventilation] wear respiratory protection. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P342+P311 If experiencing respiratory symptoms: Call a POISON CENTER/ doctor. P362+P364 Take off contaminated clothing and wash it before reuse. P403+P233 Store in a well-ventilated place. Keep container tightly closed. P405 Store locked up.

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		
ALIPHATIC POLYISOCYANATE		90 - 100%
CAS number: 28182-81-2	EC number: 500-060-2	
Classification		
Skin Sens $1 - H317$		
HEXAMETHYLENE-DI-ISOCYANATE		0.5 - 1%
CAS number: 822-06-0	EC number: 212-485-8	REACH registration number: 01- 2119457571-37-0000
Classification		
Acute Tox. 3 - H331		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
Resp. Sens. 1 - H334		
Skin Sens. 1 - H317		
STOT SE 3 - H335		
	nd Otatana ata ang Diantana	Lie Opeting 40

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

Immediately remove contaminated clothing. Contaminated clothing and shoes must be discarded.

Inhalation	Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.	
Ingestion	Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.	
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water or use an approved skin cleanser. Preferably, use a cleanser based on polyethylene glycol. Get medical attention promptly if symptoms occur after washing.	
Eye contact	Remove any contact lenses and open eyelids wide apart. Rinse with water. Continue to rinse for at least 15 minutes and get medical attention.	
4.2. Most important symptoms	and effects, both acute and delayed	
General information	Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Treat symptomatically. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.	
Inhalation	Upper respiratory irritation. May cause sensitisation by inhalation.	
Skin contact	Skin irritation. May cause sensitisation by skin contact.	
4.3. Indication of any immediat	e medical attention and special treatment needed	
Notes for the doctor	Treat symptomatically.	
SECTION 5: Firefighting meas	ures	
5.1. Extinguishing media		
Suitable extinguishing media	Extinguish with foam, carbon dioxide or dry powder. Larger fires: Water spray.	
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.	
5.2. Special hazards arising fro	m the substance or mixture	
Specific hazards	Containers can burst violently or explode when heated, due to excessive pressure build-up.	
Hazardous combustion products	Fire or high temperatures create: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO2). Oxides of nitrogen. Isocyanate vapours. Hydrogen cyanide (HCN).	
5.3. Advice for firefighters		
Protective actions during firefighting	Control run-off water by containing and keeping it out of sewers and watercourses.	
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.	
SECTION 6: Accidental release measures		
6.1. Personal precautions, protective equipment and emergency procedures		
Personal precautions	Wear protective clothing as described in Section 8 of this safety data sheet. Use suitable respiratory protection if ventilation is inadequate. In case of spills, beware of slippery floors and surfaces.	
6.2. Environmental precautions		
Environmental precautions	Do not discharge into drains or watercourses or onto the ground. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.	

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Stop leak if possible without risk. DO NOT touch spilled material! Clean-up personnel should use respiratory and/or liquid contact protection. Provide ventilation and confine spill. Do not allow runoff to sewer. Absorb in vermiculite, dry sand or earth and place into containers. Inform Authorities if large amounts are involved. Do not seal the containers. Keep damp and in the open air for at least seven days.	
6.4. Reference to other section	<u>s</u>	
Reference to other sections	For waste disposal, see section 13.	
SECTION 7: Handling and stor	age	
7.1. Precautions for safe handl	ing	
Usage precautions	Avoid contact with skin and eyes. Avoid inhalation of vapours. Good personal hygiene procedures should be implemented. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using this product. Contaminated clothing and shoes must be discarded.	
7.2. Conditions for safe storage	e, including any incompatibilities	
Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place.	
Storage class	Chemical storage.	
7.3. Specific end use(s)		
Specific end use(s)	The identified uses for this product are detailed in Section 1.2.	
SECTION 8: Exposure controls	Personal protection	
8.1. Control parameters Occupational exposure limits HEXAMETHYLENE-DI-ISOCY	ANATE	
Long-term exposure limit (8-ho Short-term exposure limit (15-n as NCO WEL = Workplace Exposure Li	ur TWA): WEL 0.02 mg/m3(Sen) ninute): WEL 0.07 mg/m3(Sen) mit	
	ALIPHATIC POLYISOCYANATE (CAS: 28182-81-2)	
DNEL	Workers - Inhalation; Long term local effects: 0.5 mg/m ³ Workers - Inhalation; Short term local effects: 1 mg/m ³	
PNEC	Aqua - Fresh water; 0.127 mg/l Aqua - marine water; 0.0127 mg/l	
	HEXAMETHYLENE-DI-ISOCYANATE (CAS: 822-06-0)	

- DNELWorkers Inhalation; Short term systemic effects: 0.07 mg/m³Workers Inhalation; Long term systemic effects: 0.035 mg/m³Workers Inhalation; Long term local effects: 0.035 mg/m³
- PNEC
 - Fresh water; >0.0774 mg/l

 - marine water; >0.00774 mg/l
 - Sediment (Freshwater); >0.01334 mg/kg
 - Sediment (Marinewater); >0.001334 mg/kg
 - Soil; >0.0026 mg/kg
 - STP; 8.42 mg/l

8.2. Exposure controls

Protective equipment

Appropriate engineering controls	Provide adequate general and local exhaust ventilation. Observe any occupational exposure limits for the product or ingredients.
Eye/face protection	Wear tight-fitting, chemical splash goggles or face shield.
Hand protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. Wear protective gloves made of the following material: Butyl rubber. Nitrile rubber. Viton rubber (fluoro rubber).
Other skin and body protection	Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.
Hygiene measures	Provide eyewash station and safety shower. Discard contaminated shoes and clothing. Do not smoke in work area. Do not eat, drink or smoke when using this product. Wash promptly with soap and water if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking and using the toilet. Use appropriate skin cream to prevent drying of skin.
Respiratory protection	If ventilation is inadequate, suitable respiratory protection must be worn. When spraying, wear a suitable supplied-air respirator. For short periods, a combination of charcoal filter and particulate filter is recommended.
SECTION Q: Physical and c	hemical properties

SECTION 9: Physical and chemical properties

9.1. Information on basic phys	ical and chemical properties
Appearance	Liquid.
Colour	Yellowish.
Odour	Slight.
Odour threshold	Not determined.
рН	Not applicable.
Melting point	Not determined.
Initial boiling point and range	Not determined.
Flash point	Not determined.
Evaporation rate	Not determined.
Evaporation factor	Not determined.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explosive limits	Not determined.
Other flammability	Not determined.
Vapour pressure	Not determined.
Vapour density	Not determined.
Relative density	1.12 at 20°C
Bulk density	Not applicable.

Solubility(ies)	Immiscible with water.	
Partition coefficient	Not determined.	
Auto-ignition temperature	Not determined.	
Decomposition Temperature	Not determined.	
Viscosity	Not determined.	
Explosive properties	Not considered to be explosive.	
Explosive under the influence of a flame	Not considered to be explosive.	
Oxidising properties	Does not meet the criteria for classification as oxidising.	
9.2. Other information		
Other information	No data available.	
SECTION 10: Stability and rea	ctivity	
10.1. Reactivity		
Reactivity	The following materials may react with the product: Water, forming CO2; in closed containers, risk of bursting owing to pressure increase.	
10.2. Chemical stability		
Stability	Stable at normal ambient temperatures and when used as recommended.	
10.3. Possibility of hazardous reactions		
Possibility of hazardous reactions	Exothermic reaction with amines and alcohols; reacts slowly with water forming CO2, in closed containers risk of bursting owing to increase of pressure.	
10.4. Conditions to avoid		
Conditions to avoid	Avoid excessive heat for prolonged periods of time.	
10.5. Incompatible materials		
Materials to avoid	Water, moisture. Strong oxidising agents.	
10.6. Hazardous decomposition	n products	
Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon. Oxides of nitrogen.	
SECTION 11: Toxicological info	ormation	
11.1. Information on toxicologic	cal effects	
Acute toxicity - inhalation	600.0	
ATE inhalation (vapours mg/)	1 51	
mg/l)		
Inhalation	May cause respiratory system irritation.	
Ingestion	May cause discomfort if swallowed.	
Skin contact	Irritating to skin. May cause sensitisation by skin contact.	
Eye contact	Irritating to eyes.	

ALIPHATIC POLYISOCYANATE

Toxicological information on ingredients.

	Acute toxicity - oral	
	Notes (oral LD₅₀)	LD₅₀ >2500 mg/kg bw, Oral, Rat
	Acute toxicity - dermal	
	Notes (dermal LD₅₀)	LD₅₀ >2000 mg/kg bw, Dermal, Rat
	Acute toxicity - inhalation	
	ATE inhalation (dusts/mists mg/l)	1.5
		HEXAMETHYLENE-DI-ISOCYANATE
	Acute toxicity - oral	
	Acute toxicity oral (LD₅₀ mg/kg)	960.0
	Species	Rat
	Acute toxicity - inhalation	
	Acute toxicity inhalation (LC₅₀ vapours mg/l)	0.124
	Species	Rat
	ATE inhalation (vapours mg/l)	3.0
SECTION 1	2: Ecological information	
Ecotoxicity	Not rega hazardo	arded as dangerous for the environment. However, large or frequent spills may have us effects on the environment.

12.1. Toxicity

Ecological information on ingredients.

ALIPHATIC POLYISOCYANATE

Acute aquatic toxicity	
Acute toxicity - aquatic plants	EC₅₀, 72 hours: >1000 mg/l, Desmodesmus subspicatus
Acute toxicity - microorganisms	EC₅₀, 3 hour: 3828 mg/l, Activated sludge

12.2. Persistence and degradability

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

Ecological information on ingredients.

HEXAMETHYLENE-DI-ISOCYANATE

Stability (hydrolysis)

- Half-life : 0.23 hour @ 23°C

12.3. Bioaccumulative potential

Bioaccumulative potential Bioaccumulation is unlikely to be significant because of the low water-solubility of this product.

Partition coefficient	Not determined.	
Ecological information on ingre	adients.	
	HEXAMETHYLENE-DI-ISOCYANATE	
Bioaccumulative	potential The product is not bioaccumulating.	
12.4. Mobility in soil		
Mobility	The product is insoluble in water.	
12.5. Results of PBT and vPvE	3 assessment	
Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.	
12.6. Other adverse effects		
Other adverse effects	None known.	
SECTION 13: Disposal consid	erations	
13.1. Waste treatment method	<u>s</u>	
General information	Waste is classified as hazardous waste.	
Disposal methods	Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.	
Waste class	For disposal within the EC, the appropriate code according to the European Waste Catalogue (EWC) should be used.	
SECTION 14: Transport inform	nation	
General	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).	
14.1. UN number		
Not applicable.		
14.2. UN proper shipping name	<u>e</u>	
Not applicable.		
14.3. Transport hazard class(e	us)	
No transport warning sign requ	uired.	
14.4. Packing group		
Not applicable.		
14.5. Environmental hazards		
Environmentally hazardous substance/marine pollutant No.		
14.6. Special precautions for user		
Not applicable.		
14.7. Transport in bulk accordi	ng 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	Commission Regulation (EU) No 453/2010 of 20 May 2010. 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).	
Guidance	Workplace Exposure Limits EH40. Approved Classification and Labelling Guide (Sixth edition) L131. Isocyanates: Health hazards and precautionary measures EH16. Respiratory protective equipment at work (HSG53).	

15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information	
General information	Only trained personnel should use this material. For professional users only.
Revision comments	NOTE: Lines within the margin indicate significant changes from the previous revision.
Revision date	21/11/2019
Revision	3b
Supersedes date	26/05/2017
SDS number	12808
Hazard statements in full	 H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H331 Toxic if inhaled. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation.

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.