SAFETY DATA SHEET

Proteus Pro-Cold®

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

1.1. Product identifier

Trade name

Proteus Pro-Cold®

Product no.

PCMONO15LGV1.0

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

Relevant identified uses of the substance or mixture

Polyurethane coating

Use descriptors (UK REACH)

Sectors of use	**Description**
SU 19	Building and construction work
Product category	**Description**
PC 9a	Coatings and Paints, Fillers, Putties, Thinners
Process category	**Description**
PROC 10	Roller application or brushing

Uses advised against

Consumer uses: Private households (= general public = consumers)
Industrial spraying
Non industrial spraying

1.3. Details of the supplier of the safety data sheet

Company and address

Proteus Waterproofing Ltd
21a Sirdar Road, Brook Road Industrial Estate
SS6 7XF Rayleigh, Essex
England
+44 (0) 1268 777871 Office Mon-Fri 08:30-17:00 outside of these hours call emergency numbers
www.proteuswaterproofing.co.uk

E-mail

enquiries@proteuswaterproofing.co.uk

Revision

12/06/2023

SDS Version

1.0

1.4. Emergency telephone number

In emergency call NCEC +44 (0) 1865 407 333
Contact The National Poisons Information Service (dial 111, 24 h service).
See section 4 “First aid measures”.

SECTION 2: Hazards identification

Classified according to Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.
Classified according to Regulation (EC) No. 1272/2008 (CLP).

2.1. Classification of the substance or mixture

Flam. Liq. 3; H226, Flammable liquid and vapour.
Skin Irrit. 2; H315, Causes skin irritation.
Skin Sens. 1; H317, May cause an allergic skin reaction.
Eye Irrit. 2; H319, Causes serious eye irritation.
Aquatic Chronic 3; H412, Harmful to aquatic life with long lasting effects.

2.2. Label elements

Hazard pictogram(s)



Signal word

Warning

Hazard statement(s)

Flammable liquid and vapour. (H226)
Causes skin irritation. (H315)
May cause an allergic skin reaction. (H317)
Causes serious eye irritation. (H319)
Harmful to aquatic life with long lasting effects. (H412)

Precautionary statement(s)

General

Keep out of reach of children. (P102)

Prevention

Obtain special instructions before use. (P201)
Do not handle until all safety precautions have been read and understood. (P202)
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)
Keep only in original packaging. (P234)
Avoid breathing mist/vapour. (P261)
Wash hands thoroughly after handling. (P264)
Do not eat, drink or smoke when using this product. (P270)
Contaminated work clothing should not be allowed out of the workplace. (P272)
Avoid release to the environment. (P273)
Wear protective gloves/protective clothing/eye protection/face protection. (P280)

Response

Do NOT induce vomiting. (P331)
IF SWALLOWED: Immediately call a POISON CENTER/doctor. (P301+P310)
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)
If skin irritation or rash occurs: Get medical advice/attention. (P333+P313)
If eye irritation persists: Get medical advice/attention. (P337+P313)
Take off contaminated clothing and wash it before reuse. (P362+P364)
In case of fire: Use water mist/carbon dioxide/alcohol-resistant foam to extinguish. (P370+P378)
Collect spillage. (P391)

Storage

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

Disposal

Dispose of contents/container in accordance with local regulation. (P501)

Hazardous substances

Aromatic polyisocyanate prepolymer
propylene carbonate
Xylene (mixture of isomers)
Reaction products of phosphoryl trichloride and 2-methyloxirane
N,N-dibenzyliden polyoxypropylene diamine (polymer)
Hydrocarbons, c9, aromatics
toluene
Isobutyl acetate
Butyl ethanoate
ethyl acetate
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)
phosphoric acid

Additional labelling

EUH066, Repeated exposure may cause skin dryness or cracking.
EUH204, Contains isocyanates. May produce an allergic reaction.
EUH205, Contains epoxy constituents. May produce an allergic reaction.

VOC

VOC content: 94 g/L
MAXIMUM VOC CONTENT (Phase II, category A/i (SB): 500 g/L)

2.3. Other hazards

Additional warnings

This product contains a vPvB and/or PBT substance:
toluene (PBT)

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Aromatic polyisocyanate prepolymer	CAS No.: 37273-56-6 EC No.: 609-378-7 UK-REACH: Index No.:	15-25%	Skin Sens. 1, H317 Eye Irrit. 2, H319	
propylene carbonate	CAS No.: 108-32-7 EC No.: 203-572-1 UK-REACH: Index No.: 607-194-00-1	5-10%	Eye Irrit. 2, H319	
Xylene (mixture of isomers)	CAS No.: 1330-20-7 EC No.: 215-535-7 UK-REACH: Index No.: 601-022-00-9	5-10%	EUH066 Flam. Liq. 3, H226 Asp. Tox. 1, H304 Acute Tox. 4, H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 4, H332 STOT SE 3, H335 STOT RE 2, H373 Aquatic Chronic 3, H412	[1]
Reaction products of phosphoryl trichloride and 2-methyloxirane	CAS No.: 1244733-77-4 EC No.: 807-935-0 UK-REACH: Index No.:	3-5%	Acute Tox. 4, H302	
N,N-dibenzyliden polyoxypropylene diamine (polymer)	CAS No.: 136855-71-5 EC No.: 679-523-7 UK-REACH: Index No.:	1-3%	Skin Irrit. 2, H315	
Hydrocarbons, c9, aromatics	CAS No.: 64742-95-6 EC No.: 265-199-0 UK-REACH: Index No.: 649-356-00-4	1-3%	EUH066 Flam. Liq. 3, H226 Asp. Tox. 1, H304 STOT SE 3, H335 STOT SE 3, H336 Aquatic Chronic 2, H411	
toluene	CAS No.: 108-88-3 EC No.: 203-625-9 UK-REACH: Index No.: 601-021-00-3	1-3%	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Skin Irrit. 2, H315 STOT SE 3, H336 Repr. 2, H361d STOT RE 2, H373 Aquatic Chronic 3, H412	[1], [3]
Isobutyl acetate	CAS No.: 110-19-0 EC No.: 203-745-1 UK-REACH: Index No.: 607-026-00-7	<1%	EUH066 Flam. Liq. 2, H225 STOT SE 3, H336	
Butyl ethanoate	CAS No.: 123-86-4 EC No.: 204-658-1 UK-REACH: Index No.: 607-025-00-1	<0.25%	EUH066 EUH401 Flam. Liq. 3, H226 STOT SE 3, H336	
ethyl acetate	CAS No.: 141-78-6 EC No.: 205-500-4 UK-REACH:	<0.25%	EUH066 EUH401 Flam. Liq. 2, H225	

	Index No.: 607-022-00-5		Eye Irrit. 2, H319 STOT SE 3, H336
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)	CAS No.: 933999-84-9 EC No.: 618-939-5 UK-REACH: Index No.:	<0.25%	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Aquatic Chronic 3, H412
phosphoric acid	CAS No.: 7664-38-2 EC No.: 231-633-2 UK-REACH: Index No.: 015-011-00-6	<0.05%	Met. Corr. 1, H290 Skin Corr. 1B, H314 (SCL: 25.00 %) Eye Dam. 1, H318 (SCL: 25.00 %)

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

[1] European occupational exposure limit.
[3] According to UK REACH, Annex XVII, the substance is subject to restrictions.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

IF ON SKIN: Wash with plenty of water and soap.
Remove contaminated clothing and shoes. Ensure to wash exposed skin thoroughly with water and soap. DO NOT use solvents or thinners.
If skin irritation occurs: Get medical advice/attention.

Eye contact

Upon irritation of the eye: Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30 °C) for at least 5 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink.
In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.

Burns

Rinse with water until pain stops then continue to rinse for 30 minutes.

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

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact.
Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

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

If eye irritation persists: Get medical advice/attention.
If skin irritation or rash occurs: Get medical advice/attention.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.
Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are

exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.
If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:
Halogenated compounds
Carbon oxides (CO / CO2)

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.
Hazchem Code: ●3Y

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.
Avoid direct contact with spilled substances.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section 13 “Disposal considerations” on handling of waste.
See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Ground and bond container and receiving equipment.
Use explosion-proof [electrical/lighting/ventilating] equipment.
Use non-sparking tools.
Take action to prevent static discharges.
It is recommended to install waste collection trays in order to prevent emissions to the waste water system and surrounding environment.
Smoking, drinking and consumption of food is not allowed in the work area.
See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.
Take action to prevent static discharges.
Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Recommended storage material

Keep only in original packaging.

Storage temperature

Store away from incompatibles
Dry, cool and well ventilated
DO NOT store in pits basements or areas where vapours may be trapped
Keep receptacles tightly sealed, prevent formation of aerosol.

Incompatible materials

Strong acids
Strong alkalines
Alcohol
Amines
Strong oxidizing agents
Water
Oxidising Agents
Aluminium
Plastic
Zinc
Nitrates
chlorosulphuric acid

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Xylene (mixture of isomers)
Long term exposure limit (8 hours) (ppm): 50
Long term exposure limit (8 hours) (mg/m³): 220
Short term exposure limit (15 minutes) (ppm): 100
Short term exposure limit (15 minutes) (mg/m³): 441
Annotations:
BMVG = Biological Monitoring Guidance Value exists
Sk = Can be absorbed through the skin and lead to systemic toxicity.

toluene
Long term exposure limit (8 hours) (ppm): 50
Long term exposure limit (8 hours) (mg/m³): 191
Short term exposure limit (15 minutes) (ppm): 100
Short term exposure limit (15 minutes) (mg/m³): 384
Annotations:
Sk = Can be absorbed through the skin and lead to systemic toxicity.

Isobutyl acetate
Long term exposure limit (8 hours) (ppm): 150
Long term exposure limit (8 hours) (mg/m³): 724
Short term exposure limit (15 minutes) (ppm): 187
Short term exposure limit (15 minutes) (mg/m³): 903

Butyl ethanoate
Long term exposure limit (8 hours) (ppm): 150
Long term exposure limit (8 hours) (mg/m³): 724
Short term exposure limit (15 minutes) (ppm): 200
Short term exposure limit (15 minutes) (mg/m³): 966

ethyl acetate
Long term exposure limit (8 hours) (ppm): 200
Short term exposure limit (15 minutes) (ppm): 400

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002.
EH40/2005 Workplace exposure limits (Fourth Edition 2020).

DNEL

Butyl ethanoate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Dermal	7 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	11 mg/kg bw/day
Long term – Local effects - Workers	Inhalation	300 mg/m³
Long term – Systemic effects - Workers	Inhalation	48 mg/m³
Short term – Local effects - Workers	Inhalation	600 mg/m³
Short term – Systemic effects - Workers	Inhalation	600 mg/m³

ethyl acetate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Dermal	63 mg/kg bw/day
Long term – Local effects - Workers	Inhalation	734 mg/m³
Long term – Systemic effects - Workers	Inhalation	734 mg/m³
Short term – Local effects - Workers	Inhalation	1468 mg/m³
Short term – Systemic effects - Workers	Inhalation	1468 mg/m³

Hydrocarbons, c9, aromatics

Duration:	Route of exposure:	DNEL:
Long term – Local effects - Workers	Inhalation	837.5 mg/m³
Long term – Systemic effects - Workers	Inhalation	1.9 mg/m³
Short term – Local effects - Workers	Inhalation	1066.67 mg/m³
Short term – Systemic effects - Workers	Inhalation	1286.4 mg/m³

Isobutyl acetate

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Dermal	10 mg/kg bw/day
Short term – Systemic effects - Workers	Dermal	10 mg/kg bw/day
Long term – Local effects - Workers	Inhalation	300 mg/m³
Long term – Systemic effects - Workers	Inhalation	300 mg/m³
Short term – Local effects - Workers	Inhalation	600 mg/m³
Short term – Systemic effects - Workers	Inhalation	600 mg/m³

propylene carbonate

Duration:	Route of exposure:	DNEL:
Long term – Local effects - Workers	Dermal	10 mg/cm²
Long term – Systemic effects - Workers	Dermal	20 mg/kg bw/day
Long term – Local effects - Workers	Inhalation	20 mg/m³
Long term – Systemic effects - Workers	Inhalation	70.53 mg/m³

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)

Duration:	Route of exposure:	DNEL:
Long term – Local effects - Workers	Dermal	22.6 µg/cm²
Long term – Systemic effects - Workers	Dermal	6 mg/kg bw/day
Short term – Local effects - Workers	Dermal	22.6 µg/cm²
Long term – Local effects - Workers	Inhalation	440 µg/m³
Long term – Systemic effects - Workers	Inhalation	10.57 mg/m³
Short term – Systemic effects - Workers	Inhalation	10.57 mg/m³

Reaction products of phosphoryl trichloride and 2-methyloxirane

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Dermal	2.91 mg/kg bw/day
Long term – Systemic effects - Workers	Inhalation	8.2 mg/m³
Short term – Systemic effects - Workers	Inhalation	22.6 mg/m³

toluene

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Dermal	384 mg/kg bw/day
Long term – Local effects - Workers	Inhalation	192 mg/m³
Long term – Systemic effects - Workers	Inhalation	192 mg/m³
Short term – Local effects - Workers	Inhalation	384 mg/m³
Short term – Systemic effects - Workers	Inhalation	384 mg/m³

Xylene (mixture of isomers)

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - Workers	Dermal	212 mg/kg bw/day
Long term – Local effects - Workers	Inhalation	221 mg/m³
Long term – Systemic effects - Workers	Inhalation	221 mg/m³
Short term – Local effects - Workers	Inhalation	442 mg/m³

Short term – Systemic effects - Workers	Inhalation	442 mg/m³

PNEC

Butyl ethanoate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		180 µg/L
Freshwater sediment		981 µg/kg
Intermittent release (freshwater)		360 µg/L
Marine water		18 µg/L
Marine water sediment		98.1 µg/kg
Sewage treatment plant		35.6 mg/L
Soil		90.3 µg/kg

ethyl acetate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		240 µg/L
Freshwater sediment		1.15 mg/kg
Intermittent release (freshwater)		1.65 mg/L
Marine water		24 µg/L
Marine water sediment		115 µg/kg
Predators		200 mg/kg
Sewage treatment plant		650 mg/L
Soil		148 µg/kg

Isobutyl acetate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		170 µg/L
Freshwater sediment		877 µg/kg
Intermittent release (freshwater)		340 µg/L
Marine water		17 µg/L
Marine water sediment		87.7 µg/kg
Sewage treatment plant		200 mg/L
Soil		75.5 µg/kg

propylene carbonate

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		900 µg/L
Intermittent release (freshwater)		9 mg/L
Intermittent release (marine water)		900 µg/L
Marine water		90 µg/L
Sewage treatment plant		7.4 g/L
Soil		810 µg/kg

Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		11.5 µg/L
Freshwater sediment		283 µg/kg
Intermittent release (freshwater)		115 µg/L
Marine water		1.15 µg/L
Marine water sediment		28.3 µg/kg
Sewage treatment plant		1 mg/L

Soil	223 µg/kg

Reaction products of phosphoryl trichloride and 2-methyloxirane

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		320 µg/L
Freshwater sediment		11.5 mg/kg
Intermittent release (freshwater)		510 µg/L
Marine water		32 µg/L
Marine water sediment		1.15 mg/kg
Predators		11.6 mg/kg
Sewage treatment plant		19.1 mg/L
Soil		340 µg/kg

toluene

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		74-680 µg/L
Freshwater sediment		1.78-16.39 mg/kg
Intermittent release (freshwater)		37.8-680 µg/L
Intermittent release (marine water)		3.78 µg/L
Marine water		7.4-680 µg/L
Marine water sediment		178-16390 µg/kg
Sewage treatment plant		840-13610 µg/L
Soil		313-2890 µg/kg

Xylene (mixture of isomers)

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		327 µg/L
Freshwater sediment		12.46 mg/kg
Intermittent release (freshwater)		327 µg/L
Marine water		327 µg/L
Marine water sediment		12.46 mg/kg
Sewage treatment plant		6.58 mg/L
Soil		2.31 mg/kg

8.2. Exposure controls

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

General recommendations

Smoking, drinking and consumption of food is not allowed in the work area.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked.

Hygiene measures

Take off contaminated clothing and wash it before reuse.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment

Generally

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (e.g. type A1 according to standard EN 14387) is used.
Use only UKCA marked protective equipment.

Respiratory Equipment

Work situation	Type	Class	Colour	Standards	
Ensure adequate ventilation, use suitable respiratory protection in enclosed or poorly ventilated areas.	Suitable respiratory protection advice for the correct personal selection can be obtained from EN529:2005				

Skin protection

Work situation	Recommended	Type/Category	Standards	
Long sleeved overalls and safety footwear	Dedicated work clothing should be worn. Wear a protective suit in the event of prolonged periods of work with the product.	-	-	
Contaminated workwear MUST NOT leave site or be washed in household laundry	Contaminated garments should be removed promptly and should not be reused until they have been decontaminated, DO NOT allow garments to be decontaminated/cleaned in household laundry			

Hand protection

Work situation	Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Isocyanate vapour may be absorbed into skin cream and this increases hazard.	Consider the following when selecting work gloves, material, compatibility, degradation, failure time, permeability. The gloves resistance to chemicals should be checked prior to use, wear time depends on duration and type of use.				

Eye protection

Work situation	Type	Standards	
Ensure goggles are a suitably tight fit	Safety Goggles	EN166:2001	

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state
Liquid

Colour
Gray

Odour / Odour threshold
Characteristic

pH
Not applicable - reacts with water

Density (g/cm³)

1.5 (20 °C)

Kinematic viscosity
20.5 mm²/s (40 °C)

Particle characteristics
No data available

Phase changes

Melting point/Freezing point (°C)
No data available

Softening point/range (waxes and pastes) (°C)
Does not apply to liquids.

Boiling point (°C)
115

Vapour pressure
No data available

Relative vapour density
No data available

Decomposition temperature (°C)
No data available

Data on fire and explosion hazards

Flash point (°C)
31

Flammability (°C)
The material is ignitable.

Auto-ignition temperature (°C)
No data available

Lower and upper explosion limit (% v/v)
No data available

Solubility

Solubility in water
Not applicable - reacts with water

n-octanol/water coefficient
No data available

Solubility in fat (g/L)
No data available

9.2. Other information

Evaporation rate (n-butylacetate = 100)
No data available

VOC (g/l)
94

Oxidizing properties
No data available

Other physical and chemical parameters
No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity
No data available.

10.2. Chemical stability
The product is stable under the conditions, noted in section 7 “Handling and storage”.

10.3. Possibility of hazardous reactions
None known.

10.4. Conditions to avoid
Avoid static electricity.

10.5. Incompatible materials
Strong acids
Strong alkalines
Alcohol
Amines
Strong oxidizing agents
Water

Oxidising Agents
Aluminium
Plastic
Zinc
Nitrates
chlorosulphuric acid

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008 as retained and amended in UK law

Acute toxicity

Product/substance	Reaction products of phosphoryl trichloride and 2-methyloxirane
Test method:	OECD 402
Species:	Rat, Sprague-Dawley
Route of exposure:	Dermal
Test:	LD50
Result:	>2000 mg/kgbw

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory sensitisation

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

Skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

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

Carcinogenicity

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

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.

11.2. Information on other hazards

Long term effects

Irritation effects: This product contains substances, which may cause irritation upon exposure to skin, eyes or lungs.
Exposure may result in an increased absorption potential of other hazardous substances at the area of exposure.

Endocrine disrupting properties

Not applicable.

Other information

Xylene (mixture of isomers) has been classified by IARC as a group 3 carcinogen.
toluene has been classified by IARC as a group 3 carcinogen.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance	Xylene (mixture of isomers)
Test method:	OECD 203
Species:	Fish, Oncorhynchus mykiss
Compartment:	Freshwater
Duration:	96 hours
Test:	LC50
Result:	9,2 mg/L

Product/substance	Xylene (mixture of isomers)
Test method:	OECD 202
Species:	Daphnia, Daphnia magna

Compartment:	Freshwater
Duration:	48 hours
Test:	EC50
Result:	3,2 mg/L

Product/substance	Xylene (mixture of isomers)
Test method:	OECD 201
Species:	Algae, Pseudokirchneriella subcapitata
Compartment:	Freshwater
Duration:	72 hours
Test:	EC50
Result:	2,6 mg/L

12.2. Persistence and degradability

Product/substance	Xylene (mixture of isomers)
Biodegradable:	Yes
Test method:	
Result:	Solubility in water 100-1000 mg/L, rapidly degradable

12.3. Bioaccumulative potential

Product/substance	Xylene (mixture of isomers)
Test method:	
Potential bioaccumulation:	No
LogPow:	No data available.
BCF:	25,9
Other information:	

12.4. Mobility in soil

Xylene (mixture of isomers)
LogKoc = 2.73, Moderate mobility potential.

12.5. Results of PBT and vPvB assessment

This product contains a vPvB and/or PBT substance:
toluene (PBT)

12.6. Endocrine disrupting properties

Not applicable.

12.7. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.
This product contains substances, which may cause adverse long-term effects to the aquatic environment.

SECTION 13: Disposal considerations

Waste treatment methods

Product is covered by the regulations on hazardous waste.
HP 3 - Flammable
HP 4 - Irritant (skin irritation and eye damage)
HP 13 – Sensitising
HP 14 – Ecotoxic
Dispose of contents/container to an approved waste disposal plant.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

EWC code

08 01 11* Waste paint and varnish containing organic solvents or other dangerous substances

Specific labelling

Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR	UN1263	PAINT	Transport hazard class: 3 Label: 3 Classification code: F1	III	No	Limited quantities: 5 L Tunnel restriction code: (D/E)

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
						See below for additional information.
IMDG	UN1263	PAINT	Transport hazard class: 3 Label: 3 Classification code: F1 	III	No	Limited quantities: 5 L EmS: F-E S-E See below for additional information.
IATA	UN1263	PAINT	Transport hazard class: 3 Label: 3 Classification code: F1 	III	No	See below for additional information.

* Packing group
** Environmental hazards

Additional information

ADR / See Table A, Section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.
IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.
IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.
This product is within scope of the regulations of transport of dangerous goods.
Hazchem Code: ●3Y

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.
People under the age of 18 shall not be exposed to this product.
Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

Use of this product requires dedicated training in work with polyurethane and epoxy products.

SEVESO - Categories / dangerous substances

P5c - FLAMMABLE LIQUIDS, Qualifying quantity (lower-tier): 5.000 tonnes / (upper-tier): 50.000 tonnes

Regulation on drug precursors

toluene is included (Category 3)

Additional information

Not applicable.

Sources

The Management of Health and Safety at Work Regulations 1999.
The Health and Safety at Work etc. Act 1974 Regulations 2013.
Control of Major Accident Hazards (COMAH) Regulations 2015.
2012 No. 1715 ENVIRONMENTAL PROTECTION: The Volatile Organic Compounds in Paints, Varnishes and Vehicle Refinishing Products Regulations 2012.
Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.
The Controlled Drugs (Drug Precursors) Regulations 2008.
Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP) as

retained and amended in UK law.
Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) as retained and amended in UK law.

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

EUH066, Repeated exposure may cause skin dryness or cracking.
EUH401, To avoid risks to human health and the environment, comply with the instructions for use.
H225, Highly flammable liquid and vapour.
H226, Flammable liquid and vapour.
H290, May be corrosive to metals.
H302, Harmful if swallowed.
H304, May be fatal if swallowed and enters airways.
H312, Harmful in contact with skin.
H314, Causes severe skin burns and eye damage.
H315, Causes skin irritation.
H317, May cause an allergic skin reaction.
H318, Causes serious eye damage.
H319, Causes serious eye irritation.
H332, Harmful if inhaled.
H335, May cause respiratory irritation.
H336, May cause drowsiness or dizziness.
H361d, Suspected of damaging the unborn child.
H373, May cause damage to organs through prolonged or repeated exposure.
H411, Toxic to aquatic life with long lasting effects.
H412, Harmful to aquatic life with long lasting effects.

The full text of identified uses as mentioned in section 1

SU 19 = Building and construction work
PROC 10 = Roller application or brushing
PC 9a = Coatings and Paints, Fillers, Putties, Thinners

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway
ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
CAS = Chemical Abstracts Service
CE = Conformité Européenne (European conformity)
CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
CSA = Chemical Safety Assessment
CSR = Chemical Safety Report
DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level
EINECS = European Inventory of Existing Commercial chemical Substances
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure

STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the substance/mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.
The classification of the substance/mixture in regard of environmental hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) as retained and amended in UK law.
The classification of the mixture in regard to physical hazards has been based on experimental data.

The safety data sheet is validated by

Steven D'Silva Quality Manager

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.
The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.
It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.
Country-language: GB-en