

Safety Data Sheet

Conforms to Regulation (EC) No. 1907/2006 (REACH), Article 31, Annex II, as amended by Commission Regulation (EU) 2020/878

KERADECOR OLDSTYLE

Date of first edition: 2/7/2022

Safety Data Sheet dated 07/02/2022

version 5

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

1.1. Product identifier

Mixture identification:

Trade name: KERADECOR OLDSTYLE

Trade code: 30032021-15

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

Recommended use: DZKK_015

Uses advised against: Data not available.

1.3. Details of the supplier of the safety data sheet

Company: KERAKOLL S.p.A.

Via dell'Artigianato, 9

41049 Sassuolo (MODENA) - ITALY

Tel.+39 0536 816511 Fax. +39 0536816581

safety@kerakoll.com

1.4. Emergency telephone number

European emergency phone number 112

Ireland Poison information centre: 01 809 2166 (Daily 8am-10pm) In case of emergency call 999 or 112

Malta In case of emergency call: +356 2395 2000 (24h)

SECTION 2: Hazards identification



2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Flam. Liq. 3 Flammable liquid and vapour.

Aquatic Chronic 3 Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) No 1272/2008 (CLP):

Hazard pictograms and Signal Word



Warning

Hazard statements

H226 Flammable liquid and vapour.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements

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

P273 Avoid release to the environment.

P280 Wear protective gloves and eye protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
3

P370+P378 In case of fire, use water to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.
P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

Dir. 2004/42/EC (VOC directive)

One-pack performance coatings
EU limit value for this product (cat. A/i): 500 g/l
This product contains max 463.86 g/l VOC.

Special provisions according to Annex XVII of REACH and subsequent amendments:

Restricted to professional users.

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards: No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Mixture identification: KERADECOR OLDSTYLE

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Numb.	Classification	Registration Number
10-19,9 %	Naphtha (petroleum), hydrotreated heavy	CAS:64742-48-9 EC:265-150-3 Index:649-327-00-6	Flam. Liq. 3, H226; Asp. Tox. 1, H304; STOT SE 3, H336, EUH066, DECLP(*)	
< 1 %	trizinc bis(orthophosphate)	CAS:7779-90-0 EC:231-944-3 Index:030-011-00-6	Aquatic Acute 1, H400; Aquatic Chronic 1, H410, M-Chronic:1, M-Acute:1	01-2119485044-40
< 1 %	xylene	CAS:1330-20-7 EC:215-535-7 Index:601-022-00-9	Flam. Liq. 3, H226; Acute Tox. 4, H332; Acute Tox. 4, H312; Skin Irrit. 2, H315; Asp. Tox. 1, H304; STOT RE 2, H373; Eye Irrit. 2, H319; STOT SE 3, H335	01-2119488216-32
< 0,3 %	ethylbenzene	CAS:100-41-4 EC:202-849-4 Index:601-023-00-4	Flam. Liq. 2, H225; Acute Tox. 4, H332; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 3, H412	01-2119489370-35
< 0,2 %	Calcium bis(-ethylhexanoate)	CAS:136-51-6 EC:205-249-0	Repr. 2, H361; Eye Dam. 1, H318	01-2119978297-19
< 0,05 %	(2-methoxymethylethoxy)propanol	CAS:34590-94-8 [1,3,OEL] EC:252-104-2		01-2119450011-60

(*)DECLP Substance classified in accordance with Note P, Annex VI of EC Regulation (EC) 1272/2008.
The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply.

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:
Wash with plenty of water and soap.
In case of eyes contact:
Wash immediately with water.
In case of Ingestion:
Do not induce vomiting, get medical attention showing the SDS and label hazardous.
In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

N.A.

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

N.A.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

In case of fire, use water to extinguish.

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Suitable material for taking up: absorbing material, organic, sand

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Always keep in a well ventilated place.

Store at below 20 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Community Occupational Exposure Limits (OEL)

Component	OEL Type	Country	Ceiling	Long Term mg/m3	Long Term ppm	Short Term mg/m3	Short Term ppm	Behaviour	Notes
Naphtha (petroleum), hydrotreated heavy	NATIONAL	GERMANY		300.000	50.000	600.000	100.000		DFG
	NATIONAL	POLAND		300.000		900.000			
aluminium powder (stabilised)	NATIONAL	SWITZERLAND		300.000	50.000	600.000	100.000		
	NATIONAL	AUSTRALIA		10.000					
	NATIONAL	AUSTRIA		10.000		20.000			Long term and short term: inhalable fraction; short term: 60 minutes average value
	NATIONAL	AUSTRIA		5.000		10.000			Long term and short term: respirable fraction; short term: 60 minutes average value
	NATIONAL	CANADA			1.000				Ontario
	NATIONAL	CANADA		10.000					Quebec
	NATIONAL	DENMARK		5.000		10.000			Long term and short term: inhalable aerosol
	NATIONAL	DENMARK		2.000		4.000			Long term and short term: respirable aerosol aerosol
	NATIONAL	FRANCE		10.000					Inhalable aerosol
	NATIONAL	FRANCE		5.000					Respirable aerosol
	NATIONAL	GERMANY		4.000					DFG; Inhalable aerosol
	NATIONAL	GERMANY		1.500					DFG; Respirable aerosol
	NATIONAL	HUNGARY		6.000					Respirable aerosol
	NATIONAL	IRELAND		1.000					Respirable fraction
	NATIONAL	JAPAN		0.500					JSOH; Respirable dust
	NATIONAL	JAPAN		2.000					JSOH; Total dust: Total dust comprises particles with a flow speed of 50 to 80 cm/sec at the entry of a particle sampler
	NATIONAL	LATVIA		2.000					
	NATIONAL	NEW ZEALAND		10.000					
	NATIONAL	CHINA		3.000					Inhalable fraction
	NATIONAL	SINGAPORE		10.000					
	NATIONAL	KOREA, REPUBLIC OF		10.000					
	NATIONAL	SPAIN		10.000					Inhalable aerosol
	NATIONAL	SPAIN		5.000					Respirable aerosol
	NATIONAL	SWITZERLAND		3.000					Respirable aerosol
	NATIONAL	UNITED STATES OF AMERICA		10.000					NIOSH; Total dust
	NATIONAL	UNITED STATES OF AMERICA		5.000					NIOSH; Respirable fraction
	NATIONAL	UNITED STATES OF AMERICA		2.000					NIOSH; Soluble salts, alkyls
	NATIONAL	UNITED STATES OF AMERICA		15.000					OSHA; total dust
	NATIONAL	UNITED		5.000					OSHA; respirable dust

		STATES OF AMERICA					
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	10.000				Inhalable aerosol
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	4.000				Respirable aerosol
	NATIONAL	ITALY	1.000				
	NATIONAL	ARGENTINA	10.000				
	NATIONAL	BULGARIA	10.000				
	NATIONAL	CHILE	4.500				Respirable fraction
	NATIONAL	CROATIA	10.000				total particulate
	NATIONAL	CROATIA	5.000				respirable particulate
	NATIONAL	ESTONIA	4.000				Respirable fraction
	NATIONAL	GREECE	5.000				Respirable fraction
	NATIONAL	INDONESIA	10.000				
	NATIONAL	ICELAND	5.000	10.000			
	NATIONAL	LITHUANIA	5.000				
	NATIONAL	MALAYSIA	10.000				
	NATIONAL	MEXICO	1.000				
	NATIONAL	NORWAY	5.000				
	NATIONAL	NETHERLANDS	0.050				
	NATIONAL	POLAND	2.500				Inhalable fraction
	NATIONAL	POLAND	1.200				Respirable fraction
	NATIONAL	PORTUGAL	1.000				Respirable fraction
	NATIONAL	ROMANIA	3.000	10.000			
	NATIONAL	RUSSIAN FEDERATION	2.000	6.000			
	NATIONAL	SLOVAKIA	1.500				
	NATIONAL	SLOVENIA	6.000				
	NATIONAL	SOUTH AFRICA	5.000				
	NATIONAL	SWEDEN	5.000				
	ACGIH	NNN	1				(R), A4 - Pneumoconiosis, LRT irr, neurotoxicity
xylene	ACGIH	NNN		100.000		150.000	A4, BEI - URT and eye irr, CNS impair
	EU	NNN	221.000	50.000	442.000	100.000	Skin
	NATIONAL	AUSTRIA	221.000	50.000	442.000	100.000	
	NATIONAL	BELGIUM	221.000	50.000	442.000	100.000	
	NATIONAL	CANADA		100.000		150.000	Ontario
	NATIONAL	CANADA	434.000	100.000	651.000	150.000	Québec
	NATIONAL	DENMARK	109.000	25.000	442.000	100.000	
	NATIONAL	FINLAND	220.000	50.000	440.000	100.000	
	NATIONAL	FRANCE	221.000	50.000	442.000	100.000	
	NATIONAL	GERMANY	440.000	100.000	880.000	200.000	AGS
	NATIONAL	GERMANY	440.000	100.000	880.000	200.000	DFG
	NATIONAL	HUNGARY	221.000		442.000		
	NATIONAL	IRELAND	221.000	50.000	442.000	100.000	
	NATIONAL	ISRAEL	434.000	100.000	442.000	100.000	

ethylbenzene	NATIONAL	ITALY	221.000	50.000	442.000	100.000	MHLW JSOH
	NATIONAL	JAPAN		100.000			
	NATIONAL	JAPAN	217.000	50.000			
	NATIONAL	LATVIA	221.000	50.000	442.000	100.000	
	NATIONAL	NEW ZEALAND	217.000	50.000			
	NATIONAL	CHINA		50.000		100.000	
	NATIONAL	POLAND		100.000			
	NATIONAL	ROMANIA	221.000	50.000	442.000	100.000	
	NATIONAL	SINGAPORE	434.000	100.000	651.000	150.000	
	NATIONAL	KOREA, REPUBLIC OF	435.000	100.000	655.000	150.000	
	NATIONAL	SPAIN	221.000	50.000	442.000	100.000	NIOSH
	NATIONAL	SWEDEN	221.000	50.000	442.000	100.000	
	NATIONAL	SWITZERLAND	435.000	100.000	870.000	200.000	
	NATIONAL	NETHERLANDS	210.000		442.000		
	NATIONAL	TURKEY	221.000	50.000	442.000	100.000	
	NATIONAL	UNITED STATES OF AMERICA	435.000	100.000	655.000	150.000	
	NATIONAL	UNITED STATES OF AMERICA	435.000	100.000			
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	220.000	50.000	441.000	100.000	
	NATIONAL	ARGENTINA		100.000		150.000	
	NATIONAL	BULGARIA	221.000	50.000	445.000	100.000	OSHA
	NATIONAL	CZECHIA	200.000		400.000		
	NATIONAL	CHILE	380.000	87.000	621.000	150.000	
	NATIONAL	CROATIA	221.000	50.000	442.000	100.000	
	NATIONAL	ESTONIA	200.000	50.000	450.000	100.000	
	NATIONAL	GREECE	435.000	100.000	650.000	150.000	
	NATIONAL	INDONESIA	434.000	100.000	651.000	150.000	
	NATIONAL	ICELAND	109.000	25.000	442.000	100.000	
	NATIONAL	LITHUANIA	221.000	50.000	442.000	100.000	
	NATIONAL	MEXICO		100.000		150.000	
	NATIONAL	NORWAY	108.000	25.000			Skin
	NATIONAL	PORTUGAL		100.000		150.000	
	NATIONAL	RUSSIAN FEDERATION	50.000		150.000		
	NATIONAL	SLOVAKIA	221.000	50.000	442.000	100.000	
	NATIONAL	SLOVENIA	221.000	50.000	442.000	100.000	
	NATIONAL	SOUTH AFRICA	218.000	50.000	435.000	100.000	
	NATIONAL	TAIWAN, PROVINCE OF CHINA	434.000	100			
	EU	NNN	442	100	884	200	
	NATIONAL	AUSTRIA	440.000	100.000	880.000	200.000	Ontario Québec
	NATIONAL	BELGIUM	87.000	20.000	551.000	125.000	
	NATIONAL	CANADA		20.000			
	NATIONAL	CANADA	434.000	100.000	543.000	125.000	
	NATIONAL	DENMARK	217.000	50.000	543.000	125.000	
	NATIONAL	FINLAND	220.000	50.000	880.000	200.000	

NATIONAL	FRANCE	88.400	20.000	442.000	100.000	
NATIONAL	GERMANY	88.000	20.000	176.000	40.000	AGS
NATIONAL	GERMANY	88.000	20.000	176.000	40.000	DFG
NATIONAL	HUNGARY	442.000		884.000		
NATIONAL	IRELAND	442.000	100.000	884.000	200.000	
NATIONAL	ITALY	442.000	100.000	884.000	200.000	
NATIONAL	JAPAN		20.000			MHLW
NATIONAL	JAPAN	217.000	20.000			JSOH
NATIONAL	LATVIA	442.000	100.000	884.000	200.000	
NATIONAL	NEW ZEALAND	434.000	100.000	543.000	125.000	
NATIONAL	CHINA	100.000		150.000		
NATIONAL	POLAND	200.000		400.000		
NATIONAL	ROMANIA	442.000	100.000	884.000	200.000	
NATIONAL	SINGAPORE	434.000	100.000	543.000	125.000	
NATIONAL	KOREA, REPUBLIC OF	435.000	100.000	545.000	125.000	
NATIONAL	SPAIN	441.000	100.000	884.000	200.000	
NATIONAL	SWEDEN	220.000	50.000	884.000	200.000	
NATIONAL	SWITZERLAND	435.000	100.000	435.000	100.000	
NATIONAL	NETHERLANDS	215.000		430.000		
NATIONAL	TURKEY	442.000	100.000	884.000	200.000	
NATIONAL	UNITED STATES OF AMERICA	435.000	100.000	545.000	125.000	NIOSH
NATIONAL	UNITED STATES OF AMERICA	435.000	100.000			OSHA
NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	441.000	100.000	552.000	125.000	
NATIONAL	ARGENTINA		100.000		125.000	
NATIONAL	BULGARIA	435.000		545.000		
NATIONAL	CZECHIA	200.000		500.000		
NATIONAL	CHILE	380.000	87.000	543.000	125.000	
NATIONAL	ESTONIA	442.000	100.000	884.000	200.000	
NATIONAL	GREECE	435.000	100.000	545.000	200.000	
NATIONAL	INDONESIA		20.000			
NATIONAL	ICELAND	200.000	50.000	884.000	200.000	
NATIONAL	LITHUANIA	442.000	100.000	884.000	200.000	
NATIONAL	MALAYSIA	434.000	100.000			
NATIONAL	MEXICO		20.000			
NATIONAL	NORWAY	20.000	5.000			
NATIONAL	PORTUGAL		20.000			
NATIONAL	RUSSIAN FEDERATION	50.000		150.000		
NATIONAL	SLOVAKIA	442.000	100.000	884.000	200.000	
NATIONAL	SLOVENIA	442.000	100.000	884.000	200.000	
NATIONAL	SOUTH AFRICA	435.000	100.000	545.000	125.000	
NATIONAL	TAIWAN, PROVINCE OF CHINA	434.000	100.000			
ACGIH	NNN		20			A3, BEI - URT irr, kidney dam (nephropathy), cochlear impair

	EU	NNN	442	100	884	200	Skin
(2-methoxymethylethoxy)propanol	NATIONAL	ITALY	308.000	50.000			
	EU	NNN	308.000	50.000			

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency	Remark
trizinc bis(orthophosphate)	7779-90-0	20.600 µg/l	Fresh Water		
		6.100 µg/l	Marine water		
		100.000 µg/l	Microorganisms in sewage treatments		
		117.800 mg/kg	Freshwater sediments		
		56.500 mg/kg	Marine water sediments		
xylene	1330-20-7	35.600 mg/kg	Soil		
		327.000 µg/l	Fresh Water		
		327.000 µg/l	Intermittent releases (fresh water)		
		327.000 µg/l	Marine water		
		6.580 mg/l	Microorganisms in sewage treatments		
		12.460 mg/kg	Freshwater sediments		
		12.460 mg/kg	Marine water sediments		
ethylbenzene	100-41-4	2.310 mg/kg	Soil		
		100.000 µg/l	Fresh Water		
		100.000 µg/l	Intermittent releases (fresh water)		
		55.000 µg/l	Marine water		
		9.600 mg/l	Microorganisms in sewage treatments		
		13.700 mg/kg	Freshwater sediments		
		1.370 mg/kg	Marine water sediments		
		2.680 mg/kg	Soil		
		20.000 mg/kg	Secondary poisoning		

Derived No Effect Level (DNEL) values

Component	CAS-No.	Worker Industrial	Worker Professional	Consumer	Exposure Route	Exposure Frequency	Remark
trizinc bis(orthophosphate)	7779-90-0		5.000 mg/m ³	2.500 mg/m ³	Human Inhalation	Long Term, systemic effects	
			83.000 mg/kg	83.000 mg/kg	Human Dermal	Long Term, systemic effects	
				830.000 µg/kg	Human Oral	Long Term, systemic effects	
xylene	1330-20-7		289.000 mg/m ³	174.000 mg/m ³	Human Inhalation	Short Term, systemic effects	
			289.000 mg/m ³	174.000 mg/m ³	Human Inhalation	Short Term, local effects	
			180.000 mg/kg	108.000 mg/kg	Human Dermal	Long Term, systemic effects	
				1.600 mg/kg	Human Oral	Long Term, systemic effects	
ethylbenzene	100-41-4		77.000 mg/kg	14.800 mg/kg	Human Inhalation	Long Term, systemic effects	
			77.000 mg/m ³	15.000 mg/m ³	Human Inhalation	Long Term, systemic effects	
			293.000 mg/m ³		Human Inhalation	Short Term, local effects	
			180.000 mg/kg		Human Dermal	Long Term, systemic effects	
			1.600 mg/kg		Human Oral	Long Term, systemic effects	
(2-methoxymethylethoxy)propanol	34590-94-8						

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

N.A.

Thermal Hazards:

N.A.

Environmental exposure controls:

N.A.

Hygienic and Technical measures

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical State: Liquid

Colour: In compliance with the product description

Odour: Like: Hydrocarbons, aliphatic

Odour threshold: N.A.

pH: N.A.

Kinematic viscosity: > 20,5 mm²/sec (40 °C)

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: 24 °C (75 °F)

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.
Vapour pressure: N.A.
Relative density: 1.70 g/cm³
Solubility in water: N.A.
Solubility in oil: N.A.
Partition coefficient (n-octanol/water): N.A.
Auto-ignition temperature: N.A.
Decomposition temperature: N.A.
Flammability: The product is classified Flam. Liq. 3 H226
Volatile Organic compounds - VOCs = 20.12 % ; 342.02 g/l

Particle characteristics:

Particle size: N.A.

9.2. Other information

Miscibility: N.A.
Conductivity: N.A.
Evaporation rate: N.A. No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Data not available.

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

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

Toxicological Information of the Preparation

a) acute toxicity	Not classified Based on available data, the classification criteria are not met
b) skin corrosion/irritation	Not classified Based on available data, the classification criteria are not met
c) serious eye damage/irritation	Not classified Based on available data, the classification criteria are not met
d) respiratory or skin sensitisation	Not classified Based on available data, the classification criteria are not met
e) germ cell mutagenicity	Not classified Based on available data, the classification criteria are not met
f) carcinogenicity	Not classified Based on available data, the classification criteria are not met
g) reproductive toxicity	Not classified Based on available data, the classification criteria are not met
h) STOT-single exposure	Not classified Based on available data, the classification criteria are not met
i) STOT-repeated exposure	Not classified Based on available data, the classification criteria are not met
j) aspiration hazard	Not classified Based on available data, the classification criteria are not met

Toxicological information on main components of the mixture:

Naphtha (petroleum), hydrotreated heavy	a) acute toxicity	LD50 Oral Rat > 5000.00 mg/kg
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		LC50 Inhalation Vapour Rat > 5610.00 mg/m3 4h	
		LD50 Skin Rabbit > 2000.00 mg/kg 24h	
	b) skin corrosion/irritation	Skin Irritant Rabbit Positive 4h	
	c) serious eye damage/irritation	Eye Irritant Rabbit No	
	d) respiratory or skin sensitisation	Skin Sensitization Guineapig Negative	
	f) carcinogenicity	Genotoxicity Rat Negative	Inhalation route
		Carcinogenicity Inhalation Rat Positive	
	g) reproductive toxicity	No Observed Adverse Effect Level Rat > 20000.00 mg/m3	
trizinc bis(orthophosphate)	a) acute toxicity	LD50 Oral Rat > 5000.00 mg/kg	
		LC50 Inhalation Rat > 5700.00 mg/m3 4h	
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative	
	c) serious eye damage/irritation	Eye Irritant Rabbit No	
	d) respiratory or skin sensitisation	Skin Sensitization Guineapig Negative	
	f) carcinogenicity	Genotoxicity Negative	Mouse intraperitoneal route
	g) reproductive toxicity	No Observed Adverse Effect Level Oral Rat = 15.00 mg/kg	
xylene	a) acute toxicity	LD50 Oral Rat = 3523.00 ml/Kg	
		LC50 Inhalation Vapour Rabbit = 26.00 mg/l 4h	
		LD50 Skin Rat = 4350.00 mg/kg	
ethylbenzene	a) acute toxicity	LD50 Oral Rat = 3500.00 mg/kg	
		LC50 Inhalation Mouse = 1432.00 Ppm	
		LD50 Skin Rabbit = 17.80 ml/Kg	
	b) skin corrosion/irritation	Skin Irritant Rabbit Positive 24h	
	c) serious eye damage/irritation	Eye Irritant Rabbit Yes	
	f) carcinogenicity	Genotoxicity Negative 24h	Mouse oral route
	g) reproductive toxicity	No Observed Adverse Effect Level Inhalation Rat = 100.00	ppm

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

Harmful to aquatic life with long lasting effects.

List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 3(H412)

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
Naphtha (petroleum), hydrotreated heavy	CAS: 64742-48-9 - EINECS: 265-150-3 - INDEX: 649-327-00-6	a) Aquatic acute toxicity : LL50 Fish Oncorhynchus mykiss = 10.00 mg/L 96h

a) Aquatic acute toxicity : EL50 Daphnia Daphnia magna = 4.50 mg/L 48h
 b) Aquatic chronic toxicity : NOELR Daphnia Daphnia magna = 2.60 mg/L - 21days
 a) Aquatic acute toxicity : NOELR Algae Pseudokirchnerella subcapitata = 0.50 mg/L 72h

trizinc bis(orthophosphate)	CAS: 7779-90-0 - EINECS: 231-944-3 - INDEX: 030-011-00-6	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus Mykiss = 0.16 mg/L b) Aquatic chronic toxicity : NOEC Fish = 0.28 mg/L a) Aquatic acute toxicity : EC50 Daphnia Ceriodaphnia dubia = 0.14 mg/L a) Aquatic acute toxicity : IC50 Algae Selenastrum capricornutum = 0.13 mg/L a) Aquatic acute toxicity : NOEC Sludge slugde originating = 100.00 µg/L d) Terrestrial toxicity : NOEC Worm Lumbricus terrestris = 35.70 mg/kg - 37days d) Terrestrial toxicity : EC10 Folsomia candida = 1000.00 mg/kg
ethylbenzene	CAS: 100-41-4 - EINECS: 202-849-4 - INDEX: 601-023-00-4	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 4.20 mg/L 96h a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 1.80 mg/L 48h b) Aquatic chronic toxicity : NOEC Daphnia Ceriodaphnia dubia = 1.00 mg/L - 7days a) Aquatic acute toxicity : EC50 Algae Selenastrum capricornutum = 3.60 mg/L 96h c) Bacteria toxicity : EC50 > 96.00 mg/L 24h d) Terrestrial toxicity : LC50 Worm Eisenia fetida = 4.93 µg/L 48h OECD TG 207

12.2. Persistence and degradability

Component	Persitence/Degradability:	Test
ethylbenzene	Readily biodegradable	CO2 production

12.3. Bioaccumulative potential

Component	Bioaccumulation	Test	Value	Notes:
xylene	Bioaccumulative	BCF - Bioconcentration factor	25.900	
ethylbenzene	Bioaccumulative	BCF - Bioconcentration factor	110.000 L/kg ww	

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT or vPvB substances present in concentration $\geq 0.1\%$

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration $\geq 0.1\%$

12.7. Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force. Disposal through discharge into wastewater is not permitted

A waste code according to the European List of Wastes (LoW) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

Properties of waste which render it hazardous (Annex III, Directive 2008/98/EC):

HP 3: Flammable; HP 14: Ecotoxic

SECTION 14: Transport information

14.1. UN number or ID number

1263

14.2. UN proper shipping name

ADR-Shipping Name: PAINT

IATA-Technical name: PAINT

IMDG-Technical name: PAINT

14.3. Transport hazard class(es)

ADR-Class: 3

IATA-Class: 3

IMDG-Class: 3

14.4. Packing group

ADR-Packing Group: III

IATA-Packing group: III

IMDG-Packing group: III

14.5. Environmental hazards

Marine pollutant: No

Environmental Pollutant: No

IMDG-EMS: F-E, S-E

14.6. Special precautions for user

Road and Rail (ADR-RID):

ADR exempt: No

ADR-Label: 3

ADR - Hazard identification number: 30

ADR-Special Provisions: 163 367 650

ADR-Transport category (Tunnel restriction code): 3 (D/E)

ADR Limited Quantities: 5 L

ADR Excepted Quantities: E1

Air (IATA):

IATA-Passenger Aircraft: 355

IATA-Cargo Aircraft: 366

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3 A72 A192

Sea (IMDG):

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 163 223 367 955

14.7. Maritime transport in bulk according to IMO instruments

N.A.

SECTION 15: Regulatory information

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)
Regulation (EU) n. 2020/878

Regulation (EC) nr 648/2004 (Detergents).

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 3, 40

Restrictions related to the substances contained: 28, 29, 75

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

	Lower-tier threshold (tonnes)	Upper-tier threshold (tonnes)
Product belongs to category: P5c	5000	50000

Regulation (EU) No 649/2012 (PIC regulation)

No substances listed

German Water Hazard Class.

Class 1: slightly hazardous for water.

SVHC Substances:

No data available

Dir. 2004/42/EC (VOC directive)

(ready to use)

Volatile Organic compounds - VOCs = 28.99 %

Volatile Organic compounds - VOCs = 463.86 g/L

KERADECOR OLDSTYLE (not ready to use)

Volatile Organic compounds - VOCs = 20.12 %

Volatile Organic compounds - VOCs = 342.02 g/L

15.2. Chemical safety assessment

A Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Code	Description
EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
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.
H361	Suspected of damaging fertility or the unborn child if inhaled and in contact with skin.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Code	Hazard class and hazard category	Description
2.6/2	Flam. Liq. 2	Flammable liquid, Category 2
2.6/3	Flam. Liq. 3	Flammable liquid, Category 3
3.1/4/Dermal	Acute Tox. 4	Acute toxicity (dermal), Category 4

3.1/4/Inhal	Acute Tox. 4	Acute toxicity (inhalation), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.7/2	Repr. 2	Reproductive toxicity, Category 2
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2
4.1/A1	Aquatic Acute 1	Acute aquatic hazard, category 1
4.1/C1	Aquatic Chronic 1	Chronic (long term) aquatic hazard, category 1
4.1/C3	Aquatic Chronic 3	Chronic (long term) aquatic hazard, category 3

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008 Classification procedure

2.6/3	On basis of test data
4.1/C3	Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.
IRCCS: Scientific Institute for Research, Hospitalization and Health Care
KAFH: Keep Away From Heat
KSt: Explosion coefficient.
LC50: Lethal concentration, for 50 percent of test population.
LD50: Lethal dose, for 50 percent of test population.
LDLo: Leathal Dose Low
N.A.: Not Applicable
N/A: Not Applicable
N/D: Not defined/ Not available
NA: Not available
NIOSH: National Institute for Occupational Safety and Health
NOAEL: No Observed Adverse Effect Level
OSHA: Occupational Safety and Health Administration
PBT: Persistent, Bioaccumulative and Toxic
PGK: Packaging Instruction
PNEC: Predicted No Effect Concentration.
PSG: Passengers
RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL: Short Term Exposure limit.
STOT: Specific Target Organ Toxicity.
TLV: Threshold Limiting Value.
TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).
vPvB: Very Persistent, Very Bioaccumulative.
WGK: German Water Hazard Class.



Exposure Scenario

Xylene, Mixed Isomers

Exposure Scenario, 14/10/2022

Substance identity	
	Xylene, Mixed Isomers
CAS No.	1330-20-7
INDEX No.	601-022-00-9
EINECS No.	215-535-7
Registration number	01-2119488216-32

Table of contents

1. **ES 1** Widespread use by professional workers

1. ES 1 Widespread use by professional workers	
1.1 TITLE SECTION	
Exposure Scenario name	Professional application of coatings and inks
Date - Version	14/10/2022 - 1.0
Life Cycle Stage	Widespread use by professional workers
Main user group	Professional uses
Sector(s) of use	Professional uses (SU22)
Environment Contributing Scenario	
CS1	ERC8a - ERC8d
Worker Contributing Scenario	
CS2 Material transfers	PROC8a
CS3 Rolling, Brushing	PROC10
CS4 Roller, spreader, flow application	PROC11
1.2 Conditions of use affecting exposure	
1.2. CS1: Environment Contributing Scenario (ERC8a, ERC8d)	
Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8a, ERC8d)
<i>Product (article) characteristics</i>	
Physical form of product: Liquid	
Concentration of substance in product: Covers percentage substance in the product up to 100 %.	
<i>Amount used, frequency and duration of use (or from service life)</i>	
Emission days: 300 days per year	
<i>Conditions and measures related to sewage treatment plant</i>	
STP type: Onsite Sewage Treatment Plant	
STP effluent (m ³ /day): 2000	
<i>Conditions and measures related to treatment of waste (including article waste)</i>	
Waste treatment External treatment and disposal of waste should comply with applicable local and/or national regulations.	
<i>Other conditions affecting environmental exposure</i>	
Local marine water dilution factor: 100 Local freshwater dilution factor: 10	
1.2. CS2: Worker Contributing Scenario: Material transfers (PROC8a)	
Process Categories	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities (PROC8a)
<i>Product (article) characteristics</i>	
Physical form of product: Liquid	
Vapour pressure: = 500 Pa	

Concentration of substance in product: Covers percentage substance in the product up to 100 %.	
<i>Amount used, frequency and duration of use/exposure</i>	
Duration: Covers daily exposures up to 8 hours	
<i>Technical and organisational conditions and measures</i>	
Technical and organisational measures Use in closed process Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour).	
<i>Conditions and measures related to personal protection, hygiene and health evaluation</i>	
Personal protection Wear suitable gloves tested to EN374.	
<i>Other conditions affecting worker exposure</i>	
Professional use	
Temperature: Assumes use at not more than 20 °C above ambient temperature.	
1.2. CS3: Worker Contributing Scenario: Rolling, Brushing (PROC10)	
Process Categories	Roller application or brushing (PROC10)
<i>Product (article) characteristics</i>	
Physical form of product: Liquid	
Vapour pressure: = 500 Pa	
Concentration of substance in product: Covers percentage substance in the product up to 100 %.	
<i>Amount used, frequency and duration of use/exposure</i>	
Duration: Covers daily exposures up to 8 hours	
<i>Technical and organisational conditions and measures</i>	
Technical and organisational measures Provide a good standard of controlled ventilation (10 to 15 air changes per hour).	
<i>Conditions and measures related to personal protection, hygiene and health evaluation</i>	
Personal protection Wear suitable gloves tested to EN374. Wear a respirator conforming to EN140.	
<i>Other conditions affecting worker exposure</i>	
Professional use	
Temperature: Assumes use at not more than 20 °C above ambient temperature.	
1.2. CS4: Worker Contributing Scenario: Roller, spreader, flow application (PROC11)	
Process Categories	Non industrial spraying (PROC11)
<i>Product (article) characteristics</i>	
Physical form of product: Liquid	
Vapour pressure: = 500 Pa	
Concentration of substance in product: Covers percentage substance in the product up to 100 %.	
<i>Amount used, frequency and duration of use/exposure</i>	

Duration:

Covers daily exposures up to 8 hours

Technical and organisational conditions and measures**Technical and organisational measures**

Carry out in a vented booth provided with laminar airflow.

Conditions and measures related to personal protection, hygiene and health evaluation**Personal protection**

Wear suitable gloves tested to EN374.

Other conditions affecting worker exposure

Professional use

Temperature: Assumes use at not more than 20 °C above ambient temperature.**1.3 Exposure estimation and reference to its source****1.3. CS1: Environment Contributing Scenario (ERC8a, ERC8d)**

protection target	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
freshwater	= 0.0015 mg/L	N/A	= 0.005
marine water	= 0.000145 mg/L	N/A	< 0.001
freshwater sediment	= 0.016 mg/kg wet weight	N/A	= 0.006
marine sediment	= 0.0156 mg/kg wet weight	N/A	< 0.001
soil	= 0.0117 mg/kg wet weight	N/A	= 0.006
Sewage treatment plant	= 0.00866 mg/L	N/A	= 0.001

1.3. CS2: Worker Contributing Scenario: Material transfers (PROC8a)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	= 14 ppm	N/A	= 0.79
dermal, systemic, long-term	= 13.71 mg/kg bw/day	N/A	= 0.08
combined routes	N/A	N/A	= 0.87

1.3. CS3: Worker Contributing Scenario: Rolling, Brushing (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	= 3 ppm	N/A	= 0.17
dermal, systemic, long-term	= 27.43 mg/kg bw/day	N/A	= 0.15
combined routes	N/A	N/A	= 0.32

1.3. CS4: Worker Contributing Scenario: Roller, spreader, flow application (PROC11)

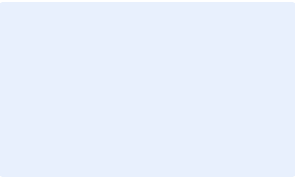
Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
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inhalative, systemic, long-term	= 5 ppm	N/A	= 0.28
dermal, systemic, long-term	= 13.71 mg/kg bw/day	N/A	= 0.08
combined routes	N/A	N/A	= 0.29

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.



Exposure Scenario

Naphtha (petroleum), hydrotreated heavy

Exposure Scenario, 08/06/2021

Substance identity	
	Naphtha (petroleum), hydrotreated heavy
CAS No.	64742-48-9
INDEX No.	649-327-00-6
EINECS No.	265-150-3

Table of contents

1. **ES 1** Widespread use by professional workers; Coatings and paints, thinners, paint removers (PC9a)

1. ES 1		Widespread use by professional workers; Coatings and paints, thinners, paint removers (PC9a)	
1.1 TITLE SECTION			
Exposure Scenario name	Professional application of coatings and inks		
Date - Version	12/05/2021 - 1.0		
Life Cycle Stage	Widespread use by professional workers		
Main user group	Professional uses		
Sector(s) of use	Professional uses (SU22)		
Product Categories	Coatings and paints, thinners, paint removers (PC9a)		
Environment Contributing Scenario			
CS1	ERC8a - ERC8d		
Worker Contributing Scenario			
CS2 Equipment cleaning and maintenance - Rolling, Brushing - Material transfers	PROC8a - PROC10 - PROC11		
1.2 Conditions of use affecting exposure			
1.2. CS1: Environment Contributing Scenario (ERC8a, ERC8d)			
Environmental release categories	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor) - Widespread use of non-reactive processing aid (no inclusion into or onto article, outdoor) (ERC8a, ERC8d)		
<i>Product (article) characteristics</i>			
Physical form of product: Liquid			
Concentration of substance in product: Covers percentage substance in the product up to 100 %.			
1.2. CS2: Worker Contributing Scenario: Equipment cleaning and maintenance - Rolling, Brushing - Material transfers (PROC8a, PROC10, PROC11)			
Process Categories	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities - Roller application or brushing - Non industrial spraying (PROC8a, PROC10, PROC11)		
<i>Product (article) characteristics</i>			
Physical form of product: Liquid			
Concentration of substance in product: Covers percentage substance in the product up to 100 %.			
<i>Amount used, frequency and duration of use/exposure</i>			
Duration: Covers daily exposures up to 8 hours			
<i>Technical and organisational conditions and measures</i>			
Technical and organisational measures Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour). Do not ingest.			
<i>Conditions and measures related to personal protection, hygiene and health evaluation</i>			
Personal protection Wear suitable gloves tested to EN374. Wear suitable face shield. Wear an impervious suit.			
<i>Other conditions affecting worker exposure</i>			

Temperature: Assumes use at not more than 20 °C above ambient temperature.

1.3 Exposure estimation and reference to its source

N/A

1.4 Guidance to DU to evaluate whether he works inside the boundaries set by the ES

Guidance to check compliance with the exposure scenario:

Where other risk management measures/operational conditions are adopted, then users should ensure that risks are managed to at least equivalent levels.