

Safety Data Sheet

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

KERADECOR SINTCROM

Date of first edition: 4/15/2021

Safety Data Sheet dated 3/4/2022

version 7

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

1.1. Product identifier

Mixture identification:

Trade name: KERADECOR SINTCROM

Trade code: 30032021-13

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

Recommended use: Coating compound

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

Kerakoll Italy - +39-0536-816511

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 2 Toxic 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):

Pictograms and Signal Words



Warning

Hazard statements

H226 Flammable liquid and vapour.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P102 Keep out of reach of children.

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.

P370+P378 In case of fire, use a CO2 fire extinguisher to extinguish.

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 368.94 g/l VOC.

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

None

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 SINTCROM

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

Qty	Name	Ident. Numb.	Classification	Registration Number
10-19,9 %	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	CAS:64742-48-9 EC:919-857-5	Asp. Tox. 1, H304; Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	01-2119463258-33
2,5-4,9 %	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
< 0,2 %	2-methoxy-1-methylethyl acetate	CAS:108-65-6 EC:203-603-9 Index:607-195-00-7	Flam. Liq. 3, H226	01-2119475791-29
< 0,05 %	(2-methoxymethylethoxy)propanol	CAS:34590-94-8 EC:252-104-2	[1,3,OEL]	01-2119450011-60
< 0,01 %	2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	CAS:111-76-2 EC:203-905-0 Index:603-014-00-0	Acute Tox. 4, H332 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Toxicity Estimate: ATE - Oral: 1200mg/kg bw	01-2119475108-36
< 0,01 %	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; STOT SE 3, H335; STOT RE 2, H373; Asp. Tox. 1, H304; Aquatic Chronic 3, H412; Eye Irrit. 2, H319, M-Chronic:1	01-2119488216-32
< 0,01 %	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

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 a CO2 fire extinguisher 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

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	Notes
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	NATIONAL	GERMANY		300.000	50.000	600.000	100.000	DFG
	NATIONAL	POLAND		300.000		900.000		
	NATIONAL	SWITZERLAND		300.000	50.000	600.000	100.000	
Titanium dioxide	NATIONAL	AUSTRALIA		10.000				This value is for inhalable dust containing no asbestos and < 1% crystalline silica
	NATIONAL	BELGIUM		10.000				
	NATIONAL	CANADA		10.000				Ontario
	NATIONAL	CANADA		10.000				Quebec
	NATIONAL	DENMARK		6.000		12.000		Long term and short term: total dust
	NATIONAL	FRANCE		11.000				Inhalable aerosol
	NATIONAL	GERMANY		0.300		2.400		DFG; Long term and short term: excluding ultrafine particles; respirable fraction; multiplied by the material density;
	NATIONAL	IRELAND		10.000				Inhalable fraction
	NATIONAL	IRELAND		8.000				Respirable fraction
	NATIONAL	JAPAN		0.300				JSOH; Nanoparticle, as Ti
	NATIONAL	LATVIA		10.000				
	NATIONAL	NEW ZEALAND		10.000				The value for inhalable dust containing no asbestos and less than 1% free silica
	NATIONAL	CHINA		8.000				Inhalable fraction
	NATIONAL	POLAND		10.000		30.000		
	NATIONAL	ROMANIA		10.000		15.000		
	NATIONAL	SINGAPORE		10.000				
	NATIONAL	KOREA, REPUBLIC OF		10.000				
	NATIONAL	SPAIN		10.000				Inhalable aerosol
	NATIONAL	SWEDEN		5.000				Inhalable aerosol
	NATIONAL	SWITZERLAND		3.000				Respirable aerosol
	NATIONAL	UNITED STATES OF AMERICA		15.000				OSHA; total dust
	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

2-methoxy-1-methylethyl acetate	NATIONAL	ITALY	10.000						
	NATIONAL	ARGENTINA	10.000						
	NATIONAL	AUSTRIA	5.000		10.000				
	NATIONAL	BULGARIA	10.000						
	NATIONAL	CROATIA	10.000						Total dust
	NATIONAL	CROATIA	4.000						Respirable dust
	NATIONAL	ESTONIA	5.000						
	NATIONAL	GREECE	10.000						
	NATIONAL	GREECE	5.000						
	NATIONAL	INDONESIA	10.000						
	NATIONAL	LITHUANIA	5.000						
	NATIONAL	MALAYSIA	10.000						
	NATIONAL	MEXICO	10.000						
	NATIONAL	NORWAY	5.000						
	NATIONAL	PORTUGAL	10.000						
	NATIONAL	RUSSIAN FEDERATIO N	10.000						
	NATIONAL	SLOVAKIA	5.000						
	NATIONAL	SLOVENIA	6.000						
	NATIONAL	SOUTH AFRICA	10.000						Inhalable particulate
	NATIONAL	SOUTH AFRICA	5.000						Respirable particulate
	NATIONAL	TAIWAN, PROVINCE OF CHINA	10.000						
	ACGIH	NNN	10						A4 - LRT irr
	NATIONAL	AUSTRALIA	274.000	50.000	548.000	100.000			
	NATIONAL	AUSTRIA	275.000	50.000	550.000	100.000			
	NATIONAL	BELGIUM	275.000	50.000	550.000	100.000			
	NATIONAL	CANADA	270.000	50.000					Ontario
	NATIONAL	DENMARK	275.000	50.000	550.000	100.000			
	NATIONAL	FINLAND	270.000	50.000	550.000	100.000			
	NATIONAL	FRANCE	275.000	50.000	550.000	100.000			
	NATIONAL	GERMANY	270.000	50.000	270.000	100.000			AGS
	NATIONAL	GERMANY	270.000	50.000	270.000	100.000			DFG
	NATIONAL	HUNGARY	270.000		550.000				
	NATIONAL	IRELAND	275.000	50.000	550.000	100.000			
	NATIONAL	ISRAEL	270.000	50.000					
	NATIONAL	ITALY	275.000	50.000	550.000	100.000			
	NATIONAL	LATVIA	275.000	50.000	550.000	100.000			
	NATIONAL	ROMANIA	275.000	50.000	550.000	100.000			
	NATIONAL	SPAIN	275.000	50.000	550.000	100.000			
	NATIONAL	SWEDEN	275.000	50.000	550.000	100.000			
	NATIONAL	SWITZERLA ND	275.000	50.000	275.000	50.000			
	NATIONAL	NETHERLA NDS	275.000						
	NATIONAL	TURKEY	275.000	50.000	550.000	100.000			
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN	274.000	50.000	548.000	100.000			

		AND NORTHERN IRELAND					
	NATIONAL	BULGARIA	275.000	50.000	550.000	100.000	
	NATIONAL	CZECHIA	270.000		550.000		
	NATIONAL	CROATIA	275.000	50.000	550.000	100.000	
	NATIONAL	ESTONIA	275.000	50.000	550.000	100.000	
	NATIONAL	ICELAND	275.000	50.000	550.000	100.000	
	NATIONAL	LITHUANIA	250.000	50.000	400.000	75.000	
	NATIONAL	NORWAY	270.000	5.000			
	NATIONAL	POLAND	260.000		520.000		
	NATIONAL	PORTUGAL	275.000	50.000	550.000	100.000	
	NATIONAL	RUSSIAN FEDERATIO N				10.000	
	NATIONAL	SLOVAKIA	275.000	50.000	550.000	100.000	
	NATIONAL	SLOVENIA	275.000	50.000	550.000	100.000	
	NATIONAL	UNITED STATES OF AMERICA		50.000			
	EU	NNN	275	50	550	100	Skin
(2- methoxymethylethoxy)propanol	NATIONAL	ITALY	308.000	50.000			
	EU	NNN	308.000	50.000			
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	EU	NNN	98	20	246	50	Skin
	NATIONAL	AUSTRIA	98.000	20.000	200.000	40.000	
	NATIONAL	BELGIUM	98.000	20.000	246.000	50.000	
	NATIONAL	CANADA		20.000			Ontario
	NATIONAL	CANADA	97.000	20.000			Quebec
	NATIONAL	DENMARK	98.000	20.000	196.000	40.000	
	NATIONAL	FINLAND	98.000	20.000	250.000	50.000	
	NATIONAL	FRANCE	49.000	10.000	246.000	50.000	
	NATIONAL	GERMANY	49.000	10.000	196.000	40.000	AGS
	NATIONAL	GERMANY	49.000	10.000	98.000	20.000	DFG
	NATIONAL	HUNGARY	98.000		246.000		
	NATIONAL	IRELAND	98.000	20.000	246.000	50.000	
	NATIONAL	ISRAEL	97.000	20.000			
	NATIONAL	ITALY	98.000	20.000	246.000	50.000	
	NATIONAL	JAPAN		25.000			MHLW
	NATIONAL	LATVIA	98.000	20.000	246.000	50.000	
	NATIONAL	NEW ZEALAND	121.000	25.000			
	NATIONAL	POLAND	98.000		200.000		
	NATIONAL	ROMANIA	98.000	20.000	246.000	50.000	
	NATIONAL	SINGAPORE	121.000	225.000			
	NATIONAL	KOREA, REPUBLIC OF	97.000	20.000			
	NATIONAL	SPAIN	98.000	20.000	245.000	50.000	
	NATIONAL	SWEDEN	50.000	10.000	246.000	50.000	
	NATIONAL	SWITZERLA ND	49.000	10.000	98.000	20.000	

xylene	NATIONAL	NETHERLANDS	100.000		246.000		
	NATIONAL	TURKEY	98.000	20.000	246.000	50.000	
	NATIONAL	UNITED STATES OF AMERICA	24.000	5.000			NIOSH
	NATIONAL	UNITED STATES OF AMERICA	240.000	50.000			OSHA
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	123.000	25.000	246.000	50.000	
	NATIONAL	ARGENTINA		20.000			
	NATIONAL	BULGARIA	98.000	20.000	246.000	50.000	
	NATIONAL	CZECHIA	100.000		200.000		
	NATIONAL	CHILE	85.000	18.000			
	NATIONAL	CROATIA	98.000	20.000	246.000	50.000	
	NATIONAL	ESTONIA	98.000	20.000	246.000	50.000	
	NATIONAL	GREECE	120.000	25.000			
	NATIONAL	INDONESIA		20.000			
	NATIONAL	ICELAND	100.000	20.000	246.000	50.000	
	NATIONAL	LITHUANIA	50.000	10.000	100.000	20.000	
	NATIONAL	MALAYSIA	96.700	20.000			
	NATIONAL	MEXICO		20.000			
	NATIONAL	NORWAY	50.000	10.000			
	NATIONAL	PORTUGAL		20.000			
	NATIONAL	RUSSIAN FEDERATION	5.000				
	NATIONAL	SLOVAKIA	98.000	20.000	946.000	50.000	
	NATIONAL	SLOVENIA	98.000	20.000	946.000	50.000	
	NATIONAL	SOUTH AFRICA	120.000	25.000			
	NATIONAL	TAIWAN, PROVINCE OF CHINA	121.000	25.000			
	ACGIH	NNN		20			A3, BEI - Eye and URT irr
	EU	NNN	98	20	246	50	Skin
	EU	NNN	221	50	442	100	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	
	NATIONAL	ITALY	221.000	50.000	442.000	100.000	
	NATIONAL	JAPAN		100.000			MHLW

NATIONAL	JAPAN	217.000	50.000			JSOH
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	
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	NIOSH
NATIONAL	UNITED STATES OF AMERICA	435.000	100.000			OSHA
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	
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			
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	100.000			
ACGIH	NNN		100		150	A4, BEI - URT and eye irr, CNS impair
EU	NNN	221	50	442	100	Skin

ethylbenzene	EU	NNN	442	100	884	200	Skin
	NATIONAL	AUSTRIA	440.000	100.000	880.000	200.000	
	NATIONAL	BELGIUM	87.000	20.000	551.000	125.000	
	NATIONAL	CANADA		20.000			Ontario
	NATIONAL	CANADA	434.000	100.000	543.000	125.000	Québec
	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 FEDERATIO N	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

Biological limit values

CAS-No.	Component	Value	UoM	Medium	Biological Indicator	Sampling Period
111-76-2	2-butoxyethanol; 150 ethyleneglycol monobutyl ether; butyl cellosolve		mg/g	Urine	2-Butoxyethylacetat	End of turn; End of working week
1330-20-7	xylene	2000	mg/L	Urine	Methyl hippuric acid in urine	End of turn

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency
trizinc bis(orthophosphate)	7779-90-0	20.600 µg/l	Freshwater	
		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	
2-methoxy-1-methylethyl acetate	108-65-6	35.600 mg/kg	Soil	
		635.000 µg/l	Freshwater	
		6.350 mg/l	Intermittent releases (freshwater)	
		63.500 µg/l	Marine water	
		100.000 mg/l	Microorganisms in sewage treatments	
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	111-76-2	3.290 mg/kg	Freshwater sediments	
		329.000 µg/kg	Marine water sediments	
		290.000 µg/kg	Soil	
		8.800 mg/l	Freshwater	
		26.400 mg/l	Intermittent releases (freshwater)	
		880.000 µg/l	Marine water	
		463.000 mg/l	Microorganisms in sewage treatments	
		34.600 mg/kg	Freshwater sediments	
		3.460 mg/kg	Marine water sediments	
		2.330 mg/kg	Soil	

xylene	1330-20-7	20.000 mg/kg	Secondary poisoning
		327.000 µg/l	Freshwater
		327.000 µg/l	Intermittent releases (freshwater)
		327.000 µg/l	Marine water
		6.580 mg/l	Microorganisms in sewage treatments
ethylbenzene	100-41-4	12.460 mg/kg	Freshwater sediments
		12.460 mg/kg	Marine water sediments
		2.310 mg/kg	Soil
		100.000 µg/l	Freshwater
		100.000 µg/l	Intermittent releases (freshwater)
		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 Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency
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
2-methoxy-1-methylethyl acetate	108-65-6		275.000 mg/m ³	33.000 mg/m ³	Human Inhalation	Long Term, systemic effects
			550.000 mg/m ³		Human Inhalation	Short Term, systemic effects
				33.000 mg/m ³	Human Inhalation	Long Term, local effects
			796.000 mg/kg	320.000 mg/kg	Human Dermal	Long Term, systemic effects
				36.000 mg/kg	Human Oral	Long Term, systemic effects
(2-methoxymethylethoxy) propanol	34590-94-8	mg/cm ²				
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	111-76-2		98.000 mg/m ³	59.000 mg/m ³	Human Inhalation	Long Term, systemic effects
			1091.000 mg/m ³	426.000 mg/m ³	Human Inhalation	Short Term, systemic effects
			246.000 mg/m ³	147.000 mg/m ³	Human Inhalation	Short Term, local effects
			125.000 mg/kg	75.000 mg/kg	Human Dermal	Long Term, systemic effects
			89.000 mg/kg	89.000 mg/kg	Human Dermal	Short Term, systemic effects
				6.300 mg/kg	Human Oral	Long Term, systemic effects

			26.700 mg/kg	Human Oral	Short Term, systemic effects
xylene	1330-20-7	221.000 mg/m ³	65.300 mg/m ³	Human Inhalation	Long Term, systemic effects
		442.000 mg/m ³	260.000 mg/m ³	Human Inhalation	Short Term, systemic effects
		221.000 mg/m ³	65.300 mg/m ³	Human Inhalation	Long Term, local effects
		442.000 mg/m ³	260.000 mg/m ³	Human Inhalation	Short Term, local effects
		212.000 mg/kg	125.000 mg/kg	Human Dermal	Long Term, systemic effects
			12.500 mg/kg	Human Oral	Long Term, systemic effects
ethylbenzene	100-41-4	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

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.

Protection for skin:

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

Protection for hands:

Neoprene, Nitrile 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

Color: N.A.

Odour: N.A.

Odour threshold: N.A.

pH: Not Relevant

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

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Flash point: 23°C / 60°C

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

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 1.71 g/cm³

Solubility in water: Immiscible

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 = 15.07 % ; 257.65 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:

Hydrocarbons, C9-C11, n- alkanes, isoalkanes, cyclics, <2% aromatics	a) acute toxicity	LD50 Oral Rat > 5000.00 mg/kg LC50 Inhalation Vapour Rat > 5000.00 mg/m3 8h LD50 Skin Rabbit > 2000.00 mg/kg 24h
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative 4h
	c) serious eye damage/irritation	Eye Irritant Rabbit No
	d) respiratory or skin sensitisation	Skin Sensitization Guineapig Negative

trizinc bis(orthophosphate)	f) carcinogenicity	Genotoxicity Rat Negative Carcinogenicity Inhalation Rat Positive	Inhalation route
	g) reproductive toxicity	No Observed Adverse Effect Level Rat > 20000.00 mg/m3	
	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	
2-methoxy-1-methylethyl acetate	a) acute toxicity	LD50 Oral Rat = 6190.00000 mg/kg LD50 Skin Rabbit > 5000.00000 mg/kg 24h	
	b) skin corrosion/irritation	Skin Irritant Rabbit Negative 4h	
	c) serious eye damage/irritation	Eye Irritant Rabbit No	
	d) respiratory or skin sensitisation	Skin Sensitization Guineapig Negative	
	g) reproductive toxicity	No Observed Effect Level Rat = 3.69000 mg/l	Inhalation route
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	a) acute toxicity	ATE - Oral : 1200 mg/kg bw LD50 Oral Guineapig = 1414.00 mg/kg LC50 Inhalation Vapour Rat = 2.56 mg/l 4h LD50 Skin Guineapig > 2000.00 mg/kg	
	b) skin corrosion/irritation	Skin Irritant Rabbit Positive 4h	
	c) serious eye damage/irritation	Eye Irritant Rabbit Yes 24h	
	d) respiratory or skin sensitisation	Skin Sensitization Guineapig Negative	
	f) carcinogenicity	Genotoxicity Negative Carcinogenicity Inhalation Rat = 125.00 mg/m3	Mouse intraperitoneal route NOAEC
	g) reproductive toxicity	No Observed Adverse Effect Level Oral = 720.00 mg/kg	Mouse
xylene	a) acute toxicity	LD50 Oral Rat = 3523.00 ml/Kg LC50 Inhalation Vapour Rat = 29000.00 mg/m3 4h LD50 Skin Rabbit = 12126.00 mg/kg 24h	
	b) skin corrosion/irritation	Skin Corrosive Rabbit Negative 4h	
	c) serious eye damage/irritation	Eye Irritant Rabbit Yes 1h	
	f) carcinogenicity	Genotoxicity Negative	Mouse subcutaneous route
	g) reproductive toxicity	No Observed Adverse Effect Level Inhalation Rat = 2171.00 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:

Toxic to aquatic life with long lasting effects.

List of Eco-Toxicological properties of the product

The product is classified: Aquatic Chronic 2(H411)

List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	CAS: 64742-48-9 - EINECS: 231-919-857-5	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
2-methoxy-1-methylethyl acetate	CAS: 108-65-6 - EINECS: 203-603-9 - INDEX: 607-195-00-7	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 130.00000 mg/L 96h OECD guideline 203 b) Aquatic chronic toxicity : NOEC Fish Oryzias latipes = 47.50000 mg/L OECD guideline 204 - 14days a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 408.00000 mg/L 48h OECD guideline 202 b) Aquatic chronic toxicity : NOEC Daphnia Daphnia magna > 100.00000 mg/L OECD guideline 211 - 24days a) Aquatic acute toxicity : NOEC Algae Selenastrum capricornutum $\geq$ 1000.00000 mg/L OECD guideline 201
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	CAS: 111-76-2 - EINECS: 203-905-0 - INDEX:	a) Aquatic acute toxicity : LC50 Fish Oncorhynchus mykiss = 1474.00 mg/L 96h

xylene	CAS: 1330-20-7 - EINECS: 215-535-7 - INDEX: 601-022-00-9	b) Aquatic chronic toxicity : NOEC Fish Brachydanio rerio = 100.00 mg/L OECD204 - 21days
		a) Aquatic acute toxicity : EC50 freshwater invertebrates = 690.00 mg/L
		b) Aquatic chronic toxicity : NOEC Daphnia Daphnia magna = 100.00 mg/L
		a) Aquatic acute toxicity : EC50 Algae pseudokirchneriella subcapitata = 623.00 mg/L 72h
ethylbenzene	CAS: 100-41-4 - EINECS: 202-849-4 - INDEX: 601-023-00-4	c) Bacteria toxicity : NOEC Uronema parduczi = 463.00 mg/L 48h
		a) Aquatic acute toxicity : LC50 Fish freshwater fish = 2.60 mg/L 96h OECD 203
		b) Aquatic chronic toxicity : NOEC Fish freshwater fish = 1.30 mg/L - 56days
		a) Aquatic acute toxicity : LC50 Daphnia Daphnia magna = 1.00 mg/L 24h OECD 202
		b) Aquatic chronic toxicity : NOEC Daphnia Ceriodaphnia dubia = 0.96 mg/L - 7days
		a) Aquatic acute toxicity : EC50 Algae freshwater algae = 1.30 mg/L 48h OECD 201
		a) Aquatic acute toxicity : EC50 microorganisms = 96.00 mg/L OECD 301F
		d) Terrestrial toxicity : NOEC Worm earthworms = 16.00 mg/kg - 14days
		e) Plant toxicity : LC50 terrestrial plants = 1.00 mg/kg - 14days
		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	Persistence/Degradability:	Test	Value	Notes
2-methoxy-1-methylethyl acetate	Readily biodegradable	Dissolved organic carbon		OECD GL 301E
2-butoxyethanol; ethyleneglycol monobutyl ether; butyl cellosolve	Readily biodegradable	Biochemical oxygen demand	98.000	28days
xylene	Readily biodegradable			
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/vPvB Ingredients are present

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.

A waste code according to European waste catalogue (EWC) 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

Toxic Component most present: trizinc bis(orthophosphate)

Marine pollutant: Yes

Environmental Pollutant: Yes

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 Provisioning: A3 A72 A192

Sea (IMDG) :

IMDG-Stowage Code: Category A

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisioning: 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: 75

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

Seveso III category according to Annex 1, part 1

Product belongs to category: P5c 5000 50000

Product belongs to category: E2 200 500

Regulation (EU) 649/2012 (PIC regulation):

No Substance Listed

German Water Hazard Class.

Class 2: hazardous for water.

SVHC Substances:

No data available

Dir. 2004/42/EC (VOC directive)

(ready to use)

Volatile Organic compounds - VOCs = 23.06 %

Volatile Organic compounds - VOCs = 368.94 g/L

KERADECOR SINTCROM (not ready to use)

Volatile Organic compounds - VOCs = 15.07 %

Volatile Organic compounds - VOCs = 257.65 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.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.

H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
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.
H411	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
3.1/4/Oral	Acute Tox. 4	Acute toxicity (oral), Category 4
3.10/1	Asp. Tox. 1	Aspiration hazard, Category 1
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/2	Eye Irrit. 2	Eye irritation, 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/C2	Aquatic Chronic 2	Chronic (long term) aquatic hazard, category 2
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/C2	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.

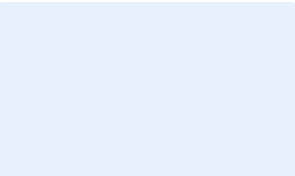
DPD: Dangerous Preparations Directive

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.

Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION



Exposure Scenario

2-methoxy-1-methylethyl acetate

Exposure Scenario, 08/06/2021

Substance identity	
	2-methoxy-1-methylethyl acetate
CAS No.	108-65-6
INDEX No.	607-195-00-7
EINECS No.	203-603-9
Registration number	01-2119475791-29

Table of contents

1. ES 1

1. ES 1

1.1 TITLE SECTION

Exposure Scenario name	Professional application of coatings and inks by brush or roller
Date - Version	29/04/2021 - 1.0
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 Large surfaces - Rolling, Brushing	PROC10
--	--------

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)
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Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers concentrations up to 100 %

Amount used, frequency and duration of use (or from service life)

Amounts used:

Daily amount per site = 5000 kg

Release type: Continuous release

Emission days: 365 days per year

Conditions and measures related to sewage treatment plant

STP type:

Municipal Sewage Treatment Plant

Water - minimum efficiency of: = 87.3 %

Conditions and measures related to treatment of waste (including article waste)

Waste treatment

Contain and dispose of waste according to local regulations.

Other conditions affecting environmental exposure

Local marine water dilution factor: 100

Local freshwater dilution factor: 10

Additional good practice advice. Obligations according to Article 37(4) of REACH do not apply.

Additional Good Practice Advice:

Site should have a spill plan to ensure that adequate safeguards are in place to minimize the impact of episodic releases.

1.2. CS2: Worker Contributing Scenario: Large surfaces - Rolling, Brushing (PROC10)

Process Categories	Roller application or brushing (PROC10)
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Product (article) characteristics

Physical form of product:

Liquid

Concentration of substance in product:

Covers concentrations up to 100 %

Amount used, frequency and duration of use/exposure**Amounts used:**

Daily amount per site = 5000 kg

Duration:

Exposure duration = 8 h/day

Frequency:

Use frequency = 365 days per year

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

Ensure control measures are regularly inspected and maintained.

Carry out in a vented booth or extracted enclosure.

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

Wear a respirator conforming to EN140.

Other conditions affecting worker exposure

Covers indoor and outdoor 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	= 0.003 mg/L	ECETOC TRA environment v3	= 0.004
freshwater sediment	= 0.014 mg/kg KW	ECETOC TRA environment v3	= 0.004
marine water	= 0.0004 mg/L	ECETOC TRA environment v3	= 0.007
marine sediment	= 0.002 mg/kg KW	ECETOC TRA environment v3	= 0.007
soil	= 0.001 mg/kg KW	ECETOC TRA environment v3	= 0.004

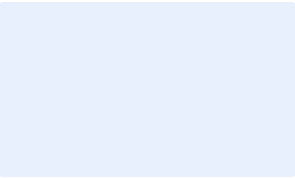
1.3. CS2: Worker Contributing Scenario: Large surfaces - Rolling, Brushing (PROC10)

Exposure route, Health effect, Exposure indicator	Exposure level	Calculation method	Risk Characterization Ratio (RCR)
inhalative, systemic, long-term	= 137.71 mg/m ³	ECETOC TRA worker v3	= 0.5
dermal, systemic, long-term	= 13.71 mg/kg bw/day	ECETOC TRA worker v3	0.18

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.