

## Safety Data Sheet

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

### KERAKOVER ECO METEOR S

Date of first edition: 12/2/2020

Safety Data Sheet dated 11/28/2022

version 6

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

### 1.1. Product identifier

Mixture identification:

Trade name: KERAKOVER ECO METEOR S

Trade code: 11092020 -3

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

Recommended use: Waterproofing agent

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

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.

STOT SE 3 May cause drowsiness or dizziness.

Asp. Tox. 1 May be fatal if swallowed and enters airways.

Adverse physicochemical, human health and environmental effects:

No other hazards

### 2.2. Label elements

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

#### Pictograms and Signal Words



Danger

#### Hazard statements

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

#### 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.
P260	Do not breathe vapours.
P280	Wear protective gloves and eye protection.
P331	Do NOT induce vomiting.
P501	Dispose of contents/container in accordance with applicable regulations.

#### Special Provisions:

EUH066 Repeated exposure may cause skin dryness or cracking.

#### Contains

xylene

#### Dir. 2004/42/EC (VOC directive)

Binding primers

EU limit value for this product (cat. A/h): 750 g/l

This product contains max 744.34 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  $\geq 0.1\%$ .

Other Hazards: No other hazards

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

N.A.

#### 3.2. Mixtures

Mixture identification: KERAKEVER ECO METEOR S

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

Qty	Name	Ident. Numb.	Classification	Registration Number
75-100 %	Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	EC:919-857-5	Asp. Tox. 1, H304; Flam. Liq. 3, H226; STOT SE 3, H336, EUH066	01-2119463258-33
1-2,4 %	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
< 1 %	tetraethyl silicate; ethyl silicate	CAS:78-10-4 EC:201-083-8 Index:014-005-00-0	Flam. Liq. 3, H226; Eye Irrit. 2, H319; STOT SE 3, H335; Acute Tox. 4, H332	01-2119496195-28
< 0,1 %	methanol	CAS:67-56-1 EC:200-659-6 Index:603-001-00-X	Flam. Liq. 2, H225 STOT SE 1, H370 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331	01-2119433307-44
Specific Concentration Limits: C $\geq 10\%$ : STOT SE 1 H370 3% $\leq$ C < 10%: STOT SE 2 H371				

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

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**

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

Suitable extinguishing media:

CO2 or Dry chemical fire extinguisher.

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.

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### **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

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### **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	
xylene	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		220.000	50.000	441.000	100.000	

tetraethyl silicate; ethyl silicate	AND NORTHERN IRELAND						
	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 FEDERATIO N	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
	EU	NNN	44	5			
	NATIONAL	AUSTRIA	44.000	5.000	88.000	10.000	
	NATIONAL	BELGIUM	44.000	5.000			
	NATIONAL	CANADA		10.000			Ontario
	NATIONAL	CANADA	85.000	10.000			Québec
	NATIONAL	DENMARK	85.000	10.000	170.000	20.000	
	NATIONAL	FINLAND	43.000	5.000	86.000	10.000	
	NATIONAL	FRANCE	44.000	5.000			
	NATIONAL	GERMANY	12.000	1.400	12.000	1.400	AGS
	NATIONAL	GERMANY	86.000	10.000	86.000	10.000	DFG
	NATIONAL	IRELAND	85.000	10.000	255.000	30.000	
	NATIONAL	JAPAN	85.000	10.000			
	NATIONAL	LATVIA	44.000	5.000			
	NATIONAL	NEW ZEALAND	85.000	10.000			
	NATIONAL	POLAND	80.000				
	NATIONAL	ROMANIA	44.000	5.000			
	NATIONAL	SINGAPORE	85.000	10.000			
	NATIONAL	KOREA, REPUBLIC OF	85.000	10.000			
	NATIONAL	SPAIN	87.000	10.000			
	NATIONAL	SWEDEN	44.000	5.000			
	NATIONAL	SWITZERLA ND	44.000	5.000			

methanol	NATIONAL	UNITED STATES OF AMERICA	85.000	10.000			NIOSH
	NATIONAL	UNITED STATES OF AMERICA	850.000	100.000			OSHA
	NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	44.000	5.000			
	NATIONAL	ARGENTINA		10.000			
	NATIONAL	BULGARIA	44.000	5.000			
	NATIONAL	CZECHIA	50.000		200.000		
	NATIONAL	CROATIA	44.000	5.000			
	NATIONAL	ESTONIA	44.000	5.000			
	NATIONAL	GREECE	44.000	5.000			
	NATIONAL	INDONESIA		10.000			
	NATIONAL	ICELAND	44.000	5.000			
	NATIONAL	LITHUANIA	44.000	5.000			
	NATIONAL	MALAYSIA	85.000	10.000			
	NATIONAL	MEXICO		10.000			
	NATIONAL	NORWAY	44.000	5.000			
	NATIONAL	NETHERLANDS	44.000				
	NATIONAL	PORTUGAL		10.000			
	NATIONAL	RUSSIAN FEDERATION			20.000		
	NATIONAL	SLOVAKIA	44.000	5.000			
	NATIONAL	SLOVENIA	44.000	5.000	44.000	5.000	
	NATIONAL	SOUTH AFRICA	85.000	10.000	255.000	10.000	
	ACGIH	NNN		10			URT and eye irr, kidney dam
	EU	NNN	44	5			
	NATIONAL	ITALY	44.000	5.000			
	EU	NNN	260	200			Skin
	NATIONAL	AUSTRIA	260.000	200.000	1040.000	800.000	
	NATIONAL	BELGIUM	266.000	200.000	333.000	250.000	Additional indication "D" means that the absorption of the agent through the skin, mucous membranes or eyes is an important part of the total exposure. It can be the result of both direct contact and its presence in the air
	NATIONAL	CANADA		200.000		250.000	Ontario
	NATIONAL	CANADA	262.000	200.000	328.000	250.000	Quebec
	NATIONAL	DENMARK	260.000	200.000	328.000	250.000	
	NATIONAL	FINLAND	270.000	200.000	330.000	250.000	
	NATIONAL	FRANCE	260.000	200.000			Bold type: Restrictive statutory limit values Skin
	NATIONAL	GERMANY	270.000	200.000	1080.000	800.000	AGS
	NATIONAL	GERMANY	130.000	100.000	260.000	200.000	DFG
	NATIONAL	HUNGARY	260.000				
	NATIONAL	IRELAND	260.000	200.000			

NATIONAL	ITALY	260.000	200.000				Cute
NATIONAL	JAPAN		200.000				MHLW
NATIONAL	JAPAN	260.000	200.000				JSOH
NATIONAL	LATVIA	260.000	200.000				
NATIONAL	NEW ZEALAND	262.000	200.000	328.000	250.000		
NATIONAL	CHINA	25.000		50.000			
NATIONAL	POLAND	100.000		300.000			
NATIONAL	ROMANIA	260.000	200.000				
NATIONAL	SINGAPORE	262.000	200.000	328.000	250.000		
NATIONAL	KOREA, REPUBLIC OF	260.000	200.000	310.000	250.000		
NATIONAL	SPAIN	266.000	200.000	333.000	250.000		
NATIONAL	SWEDEN	250.000	200.000	350.000	250.000		
NATIONAL	SWITZERLAND	260.000	200.000	1040.000	800.000		
NATIONAL	NETHERLANDS	133.000					
NATIONAL	TURKEY	260.000	200.000				
NATIONAL	UNITED STATES OF AMERICA	260.000	200.000	325.000	250.000	NIOSH	
NATIONAL	UNITED STATES OF AMERICA	260.000	200.000			OSHA	
NATIONAL	UNITED KINGDOM OF GREAT BRITAIN AND NORTHERN IRELAND	266.000	200.000	333.000	250.000		
NATIONAL	ITALY	262.000	200.000	328.000	250.000	TWA	
NATIONAL	ITALY	260.000	200.000	1040.000	800.000	TLV	
NATIONAL	ARGENTINA		200.000		250.000		
NATIONAL	BULGARIA	260.000	200.000				
NATIONAL	CZECHIA	250.000		1000.000			
NATIONAL	CHILE	229.000	175.000	328.000	230.000		
NATIONAL	CROATIA	260.000	200.000				
NATIONAL	ESTONIA	250.000	200.000	350.000	250.000		
NATIONAL	GREECE	260.000	200.000	325.000	250.000		
NATIONAL	INDONESIA		200.000		250.000		
NATIONAL	IRELAND	260.000	200.000				
NATIONAL	ICELAND	260.000	200.000				
NATIONAL	LITHUANIA	260.000	200.000				
NATIONAL	MALAYSIA	262.000	200.000				
NATIONAL	MEXICO		200.000		250.000		
NATIONAL	NORWAY	130.000	100.000				
NATIONAL	PORTUGAL		200.000		250.000		
ACGIH	NNN		200		250	Skin, BEI - Headache, eye dam, dizziness, nausea	
EU	NNN	260	200			Skin	

#### Biological limit values

CAS-No.	Component	Value	UoM	Medium	Biological Indicator	Sampling Period
1330-20-7	xylene	2000	mg/L	Urine	Methyl hippuric acid in	End of turn

67-56-1      methanol      30      mg/L      Urine      Methyl alcohol      End of turn; End of working week

### Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency
xylene	1330-20-7	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	
		12.460 mg/kg	Freshwater sediments	
		12.460 mg/kg	Marine water sediments	
		2.310 mg/kg	Soil	
tetraethyl silicate; ethyl silicate	78-10-4	190.000 µg/l	Freshwater	
		10.000 mg/l	Intermittent releases (freshwater)	
		19.000 µg/l	Marine water	
		4000.000 mg/l	Microorganisms in sewage treatments	
		830.000 µg/kg	Freshwater sediments	
		83.000 µg/kg	Marine water sediments	
		50.000 µg/kg	Soil	
methanol	67-56-1	20.800 mg/l	Freshwater	
		1540.000 mg/l	Intermittent releases (freshwater)	
		2.080 mg/l	Marine water	
		100.000 mg/l	Microorganisms in sewage treatments	
		77.000 mg/kg	Freshwater sediments	
		7.700 mg/kg	Marine water sediments	
		100.000 mg/kg	Soil	

### Derived No Effect Level (DNEL) values

Component	CAS-No.	Worker Industry	Worker Professional	Consumer	Exposure Route	Exposure Frequency
xylene	1330-20-7		221.000 mg/m <sup>3</sup>	65.300 mg/m <sup>3</sup>	Human Inhalation	Long Term, systemic effects
			442.000 mg/m <sup>3</sup>	260.000 mg/m <sup>3</sup>	Human Inhalation	Short Term, systemic effects
			221.000 mg/m <sup>3</sup>	65.300 mg/m <sup>3</sup>	Human Inhalation	Long Term, local effects
			442.000 mg/m <sup>3</sup>	260.000 mg/m <sup>3</sup>	Human Inhalation	Short Term, local effects
			212.000 mg/kg	125.000 mg/kg	Human Dermal	Long Term, systemic effects
tetraethyl silicate; ethyl silicate	78-10-4			12.500 mg/kg	Human Oral	Long Term, systemic effects
				14.000 mg/m <sup>3</sup>	Human Inhalation	Long Term, systemic effects
				14.000 mg/m <sup>3</sup>	Human Inhalation	Short Term, systemic effects
			56.000 mg/kg	3.000 mg/kg	Human Dermal	Long Term, systemic effects
			56.000 mg/kg	3.000 mg/kg	Human Dermal	Short Term, systemic effects

					effects
methanol	67-56-1	130.000 mg/m <sup>3</sup>	26.000 mg/m <sup>3</sup>	Human Inhalation	Long Term, systemic effects
		130.000 mg/m <sup>3</sup>	26.000 mg/m <sup>3</sup>	Human Inhalation	Short Term, systemic effects
		130.000 mg/m <sup>3</sup>	26.000 mg/m <sup>3</sup>	Human Inhalation	Long Term, local effects
		130.000 mg/m <sup>3</sup>	26.000 mg/m <sup>3</sup>	Human Inhalation	Short Term, local effects
		20.000 mg/kg	4.000 mg/kg	Human Dermal	Long Term, systemic effects
		20.000 mg/kg	4.000 mg/kg	Human Dermal	Short Term, systemic effects
			4.000 mg/kg	Human Oral	Long Term, systemic effects
			4.000 mg/kg	Human Oral	Short Term, systemic effects

## 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:

Use adequate protective respiratory equipment.

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: In compliance with the product description

Odour: N.A.

Odour threshold: N.A.

pH: Not Relevant

Kinematic viscosity: ≤ 14 mm<sup>2</sup>/sec (40 °C)

Melting point / freezing point: N.A.

Initial boiling point and boiling range: > 40 °C (104 °F)

Flash point: 24 °C (75 °F)

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

Vapour density: N.A.

Vapour pressure: N.A.

Relative density: 0.79 g/cm<sup>3</sup>

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 = 94.22 % ; 744.34 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	The product is classified: STOT SE 3(H336)
i) STOT-repeated exposure	Not classified
	Based on available data, the classification criteria are not met
j) aspiration hazard	The product is classified: Asp. Tox. 1(H304)

#### 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 Guinea pig 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	
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	
tetraethyl silicate; ethyl silicate	a) acute toxicity	LD50 Oral Rat > 2500.00 mg/kg	
		LC50 Inhalation of aerosol Rat = 10.00 mg/l 4h	
		LD50 Skin Rabbit = 6.30 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 Adverse Effect Level Oral = 12.50 mg/kg	Mouse
methanol	a) acute toxicity	LD50 Oral Rat >= 2528.00000 mg/kg	
		LC50 Inhalation = 43.68000 mg/l 6h	Cat
		LD50 Skin Rabbit = 17100.00000 mg/kg	
	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
		Carcinogenicity Rat Negative	
	g) reproductive toxicity	Lowest Observed Adverse Effect Level Oral = 1000.00000 mg/kg	Mouse

## 11.2 Information on other hazards

### Endocrine disrupting properties:

No endocrine disruptor substances present in concentration >= 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:

#### List of Eco-Toxicological properties of the product

Not classified for environmental hazards.

No data available for the product

#### List of Eco-Toxicological properties of the components

Component	Ident. Numb.	Ecotox Data
Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, <2% aromatics	EINECS: 919-857-5	<p>a) Aquatic acute toxicity : LL50 Fish <i>Oncorhynchus mykiss</i> = 10.00 mg/L 96h</p> <p>a) Aquatic acute toxicity : EL50 <i>Daphnia magna</i> = 4.50 mg/L 48h</p> <p>b) Aquatic chronic toxicity : NOELR <i>Daphnia magna</i> = 2.60 mg/L - 21days</p> <p>a) Aquatic acute toxicity : NOELR Algae <i>Pseudokirchnerella subcapitata</i> = 0.50 mg/L 72h</p>

xylene	CAS: 1330-20-7 - EINECS: 215-535-7 - INDEX: 601-022-00-9	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
tetraethyl silicate; ethyl silicate	CAS: 78-10-4 - EINECS: 201-083-8 - INDEX: 014-005-00-0	a) Aquatic acute toxicity : LC50 Fish Brachydanio rerio > 245.00 mg/L 96h  a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna > 75.00 mg/L 48h a) Aquatic acute toxicity : EC50 Algae Pseudokirchnerella subcapitata > 22.00 mg/L 72h  a) Aquatic acute toxicity : EC50 Sludge activated sludge > 100.00 mg/L 3h OECD 209
methanol	CAS: 67-56-1 - EINECS: 200-659-6 - INDEX: 603-001-00-X	a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 15400.00000 mg/L 96h  b) Aquatic chronic toxicity : NOEC Fish = 450.00000 mg/L a) Aquatic acute toxicity : EC50 Daphnia Daphnia magna = 22200.00000 mg/L 48h  b) Aquatic chronic toxicity : NOEC Daphnia Daphnia magna = 208.00000 mg/L a) Aquatic acute toxicity : EC50 Algae Selenastrum capricornutum = 22000.00000 mg/L 96h OECD 201 Guideline.  d) Terrestrial toxicity : NOEC Worm Eisenia andrei = 10000.00000 mg/kg d) Terrestrial toxicity : NOEC Folsomia candida = 1000.00000 mg/kg OECD Guideline 232

## 12.2. Persistence and degradability

Component	Persistence/Degradability:	Test	Value	Notes
xylene	Readily biodegradable			
tetraethyl silicate; ethyl silicate	Persistent and Biodegradable	Dissolved organic carbon	98.000	28days
methanol	Readily biodegradable			

## 12.3. Bioaccumulative potential

Component	Bioaccumulation	Test	Value	Notes
xylene	Bioaccumulative	BCF - Bioconcentration factor	25.900	
methanol	Not bioaccumulative	BCF - Bioconcentration factor		< 10

## 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.

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## 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 5: Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

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## SECTION 14: Transport information

### 14.1. UN number or ID number

1263

### 14.2. UN proper shipping name

ADR-Shipping Name: PAINT RELATED MATERIAL

IATA-Technical name: PAINT RELATED MATERIAL

IMDG-Technical name: PAINT RELATED MATERIAL

### 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-Label: 3

ADR - Hazard identification number: -

ADR-Special Provisions: 163 367 650

ADR-Transport category (Tunnel restriction code): 3 (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.

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## 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: 69, 75

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

<b>Seveso III category according to Annex 1, part 1</b>	<b>Lower-tier threshold (tonnes)</b>	<b>Upper-tier threshold (tonnes)</b>
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Product belongs to category: P5c	5000	50000
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#### **Regulation (EU) 649/2012 (PIC regulation):**

No Substance Listed

German Water Hazard Class.

NWG: Not hazardous for water

SVHC Substances:

No data available

#### **Dir. 2004/42/EC (VOC directive)**

(ready to use)

Volatile Organic compounds - VOCs = 94.22 %

Volatile Organic compounds - VOCs = 744.34 g/L

#### **15.2. Chemical safety assessment**

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

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### **SECTION 16: Other information**

<b>Code</b>	<b>Description</b>
EUH066	Repeated exposure may cause skin dryness or cracking.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H304	May be fatal if swallowed and enters airways.
H311	Toxic in contact with skin.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H370	Causes damage to organs.

H373 May cause damage to organs through prolonged or repeated exposure.  
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
3.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Category 3
3.1/3/Inhal	Acute Tox. 3	Acute toxicity (inhalation), Category 3
3.1/3/Oral	Acute Tox. 3	Acute toxicity (oral), 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
3.3/2	Eye Irrit. 2	Eye irritation, Category 2
3.8/1	STOT SE 1	Specific target organ toxicity — single exposure, Category 1
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/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
3.8/3	Calculation method
3.10/1	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

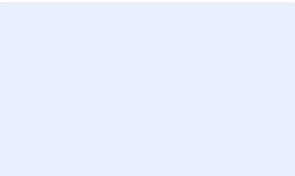
EINECS: European Inventory of Existing Commercial Chemical Substances.

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
- 4. FIRST AID MEASURES
- 5. FIRE-FIGHTING MEASURES
- 6. ACCIDENTAL RELEASE MEASURES
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 10. STABILITY AND REACTIVITY
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 13. DISPOSAL CONSIDERATIONS
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION



## 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)	
<b>1.1 TITLE SECTION</b>			
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)		
<b>Environment Contributing Scenario</b>			
CS1	ERC8a - ERC8d		
<b>Worker Contributing Scenario</b>			
CS2 Equipment cleaning and maintenance - Rolling, Brushing - Material transfers	PROC8a - PROC10 - PROC11		
<b>1.2 Conditions of use affecting exposure</b>			
<b>1.2. CS1: Environment Contributing Scenario (ERC8a, ERC8d)</b>			
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 %.			
<b>1.2. CS2: Worker Contributing Scenario: Equipment cleaning and maintenance - Rolling, Brushing - Material transfers (PROC8a, PROC10, PROC11)</b>			
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.