

## Safety Data Sheet

### PRIMER FD

Safety Data Sheet dated: 07/02/2023 - version 4



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

### 1.1. Product identifier

Mixture identification:

Trade name: PRIMER FD

Trade code: 900191

UFI: XXC0-90FQ-700J-MJ16

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

Recommended use: Solvent-borne primer

Uses advised against: Not available

### 1.3. Details of the supplier of the safety data sheet

Company: MAPEI S.p.A. - Via Cafiero, 22 - 20158 Milano

Tel. +(39)02376731 (office hours) - Fax: +39-02-37673.214 - [www.mapei.it](http://www.mapei.it)

Responsable: [sicurezza@mapei.it](mailto:sicurezza@mapei.it)

### 1.4. Emergency telephone number

Centro antiveleni, Azienda ospedaliera "Antonio Cardarelli", III Servizio di anestesia e rianimazione, via Antonio Cardarelli 9, Napoli - Tel. 081 5453333

Centro antiveleni, Azienda ospedaliera universitaria Careggi, U.O. Tossicologia medica, via Largo Brambilla 3, Firenze - Tel. 055 7947819

Centro antiveleni, Centro nazionale d'informazione tossicologica, IRCCS Fondazione Salvatore Maugeri Clinica del lavoro e della riabilitazione, via Salvatore Maugeri 10, Pavia - Tel. 0382 24444

Centro antiveleni, Azienda ospedaliera Niguarda Ca' Granda, piazza Ospedale Maggiore 3, Milano - Tel. 02 66101029

Centro antiveleni, Azienda ospedaliera "Papa Giovanni XXIII", Tossicologia clinica, Dipartimento di farmacia clinica e farmacologia, piazza OMS 1, Bergamo - Tel. 800 883300

Centro antiveleni Policlinico "Umberto I", PRGM tossicologia d'urgenza, viale del Policlinico 155, Roma - Tel. 06 49978000

Centro antiveleni del Policlinico "Agostino Gemelli", Servizio di tossicologia clinica, largo Agostino Gemelli 8, Roma - Tel. 06 3054343

Centro antiveleni, Azienda ospedaliera universitaria Riuniti, viale Luigi Pinto 1, Foggia - Tel. 800 183459

Centro antiveleni, Ospedale pediatrico Bambino Gesù, Dipartimento emergenza e accettazione DEA, piazza Sant'Onofrio 4, Roma - Tel. 06 68593726

Centro antiveleni dell'Azienda ospedaliera universitaria integrata (AOUI) di Verona sede di Borgo Trento, piazzale Aristide Stefani, 1 - 37126 Verona - Tel. 800 011858

## SECTION 2: Hazards identification



### 2.1. Classification of the substance or mixture

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

Flam. Liq. 2	Highly flammable liquid and vapour.
Skin Irrit. 2	Causes skin irritation.
Eye Irrit. 2	Causes serious eye irritation.
Repr. 2	Suspected of damaging the unborn child.
STOT SE 3	May cause drowsiness or dizziness.
STOT RE 2	May cause damage to organs through prolonged or repeated exposure.
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

H225 Highly flammable liquid and vapour.

H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

#### Precautionary statements

P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves/clothing and eye/face protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER.
P331	Do NOT induce vomiting.
P370+P378	In case of fire, use a dry powder fire extinguisher to extinguish.
P403+P235	Store in a well-ventilated place. Keep cool.

#### Contains

acetone  
toluene

#### 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

Not Relevant

### 3.2. Mixtures

Mixture identification: PRIMER FD

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

Qty	Name	Ident. Numb.	Classification	Registration Number
$\geq 50$ - $< 75$ %	acetone	CAS:67-64-1 EC:200-662-2 Index:606-001-00-8	Flam. Liq. 2, H225; Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	01-2119471330-49-XXXX
$\geq 10$ - $< 20$ %	toluene	CAS:108-88-3 EC:203-625-9 Index:601-021-00-3	Flam. Liq. 2, H225; Repr. 2, H361d; Asp. Tox. 1, H304; STOT RE 2, H373; Skin Irrit. 2, H315; STOT SE 3, H336	01-2119471310-51-XXXX
$\geq 1$ - $< 2.5$ %	tetraethyl silicate	CAS:78-10-4 EC:201-083-8 Index:014-005-00-0	Flam. Liq. 3, H226; Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	01-2119496195-28-XXXX

## 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 of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

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**

Eye irritation

Eye damages

Skin Irritation

Erythema

#### **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).

Treatment:

(see paragraph 4.1)

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

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

Suitable extinguishing media:

In case of fire, use a dry powder 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.

#### **5.3. Advice for firefighters**

Use suitable breathing apparatus.

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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.

#### **6.2. Environmental precautions**

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

Limit leakages with earth or sand.

#### **6.3. Methods and material for containment and cleaning up**

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

Retain contaminated washing water and dispose it.

#### **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.

Exercise the greatest care when handling or opening the container.

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.

Keep away from food, drink and feed.

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)

	OEL Type	Country	Occupational Exposure Limit
acetone CAS: 67-64-1	SUVA		Long Term: 1200 mg/m3 - 500 ppm; Short Term: 2400 mg/m3 - 1000 ppm
	National	SWEDEN	Long Term: 600 mg/m3 - 250 ppm; Short Term: 1200 mg/m3 - 500 ppm SWEDEN, Short-term value, 15 minutes average value
	National	FINLAND	Long Term: 1200 mg/m3 - 500 ppm; Short Term: 1500 mg/m3 - 630 ppm
	National	NORWAY	Long Term: 295 mg/m3 - 125 ppm
	NDS		Long Term: 600 mg/m3
	NDSCh		Long Term: 1800 mg/m3
	National	NORWAY	Long Term: 600 mg/m3 - 250 ppm; Short Term: 1200 mg/m3 - 500 ppm
	EU		Long Term: 1210 mg/m3 - 500 ppm
	ACGIH		Long Term: 250 ppm; Short Term: 500 ppm A4, BEI - URT and eye irr, CNS impair
	DFG	GERMANY	Ceiling - Short Term: 2400 mg/m3 - 1000 ppm
	ACGIH		Long Term: 250 ppm; Short Term: 500 ppm A4 - Not Classifiable as a Human Carcinogen; CNS impairment; eye and upper respiratory tract irritation
	National	SWEDEN	Long Term: 600 mg/m3 - 250 ppm
	National	FRANCE	Long Term: 1210 mg/m3 - 500 ppm; Short Term: 2420 mg/m3 - 1000 ppm
	National	SPAIN	Long Term: 1210 mg/m3 - 500 ppm
	National	GREECE	Long Term: 1780 mg/m3; Short Term: 3560 mg/m3
	National	DENMARK	Long Term: 600 mg/m3 - 250 ppm
	National	GERMANY	Long Term: 1200 mg/m3 - 500 ppm
	National	PORTUGAL	Long Term: 1210 mg/m3 - 500 ppm; Short Term: 750 ppm
	National	NORWAY	Long Term: 295 mg/m3 - 125 ppm; Short Term: 368,75 mg/m3 - 156,25 ppm
	National	BELGIUM	Long Term: 1210 mg/m3 - 500 ppm; Short Term: 2420 mg/m3 - 1000 ppm
	NDS	POLAND	Long Term: 600 mg/m3
	NDSCh	POLAND	Short Term: 1800 mg/m3
	CHE	SWITZERLAND	Short Term: 2400 mg/m3 - 1000 ppm
	NDS	NETHERLANDS	Long Term: 1210 mg/m3; Short Term: 2420 mg/m3
	National	CZECH REPUBLIC	Long Term: 800 mg/m3
	National	HUNGARY	Long Term: 1210 mg/m3; Short Term: 2420 mg/m3
	Malaysia OEL	MALAYSIA	Long Term: 1187 mg/m3 - 500 ppm
	National	ESTONIA	Long Term: 1210 mg/m3 - 500 ppm
	National	LATVIA	Long Term: 1210 mg/m3 - 500 ppm
	National	CZECH REPUBLIC	Ceiling - Short Term: 1500 mg/m3
	National	SLOVAKIA	Long Term: 1210 mg/m3 - 500 ppm
	National	SLOVENIA	Long Term: 1210 mg/m3 - 500 ppm
	National	UNITED KINGDOM	Long Term: 1210 mg/m3 - 500 ppm; Short Term: 3620 mg/m3 - 1500 ppm
	National	BULGARIA	Long Term: 600 mg/m3; Short Term: 1400 mg/m3
	National	ROMANIA	Long Term: 1210 mg/m3 - 500 ppm

toluene  
CAS: 108-88-3

TUR	TURKEY	Long Term: 1210 mg/m3 - 500 ppm
National	LITHUANIA	Long Term: 1210 mg/m3 - 500 ppm; Short Term: 2420 mg/m3 - 1000 ppm
National	CROATIA	Long Term: 1210 mg/m3 - 500 ppm
EU		Long Term: 1210 mg/m3 - 500 ppm Behaviour Indicative
National	SLOVENIA	Long Term: 1210 mg/m3 - 500 ppm; Short Term: 2420 mg/m3 - 1000 ppm
SUVA		Long Term: 190 mg/m3 - 50 ppm; Short Term: 760 mg/m3 - 200 ppm
National	SWEDEN	Long Term: 192 mg/m3 - 50 ppm; Short Term: 384 mg/m3 - 100 ppm SWEDEN, Short term value, 15 minutes average value
National	FINLAND	Long Term: 81 mg/m3 - 25 ppm; Short Term: 380 mg/m3 - 100 ppm FINLAND, hud, buller
National	NORWAY	Long Term: 94 mg/m3 - 25 ppm NORWAY, H
NDS		Long Term: 100 mg/m3
NDSCh		Long Term: 200 mg/m3
National	NORWAY	Long Term: 94 mg/m3 - 25 ppm; Short Term: 188 mg/m3 - 50 ppm
EU		Long Term: 192 mg/m3 - 50 ppm; Short Term: 384 mg/m3 - 100 ppm Skin
ACGIH		Long Term: 20 ppm A4, BEI - Visual impair, female repro, pregnancy loss
DFG	GERMANY	Ceiling - Short Term: 760 mg/m3 - 200 ppm
ACGIH		Long Term: 20 ppm A4 - Not Classifiable as a Human Carcinogen;female reproductive damage;pregnancy loss;visual impairment
National	SWEDEN	Long Term: 192 mg/m3 - 50 ppm
EU		Long Term: 192 mg/m3 - 50 ppm; Short Term: 384 mg/m3 - 100 ppm Behaviour Indicative Possibility of significant uptake through the skin
National	FRANCE	Long Term: 76,8 mg/m3 - 20 ppm; Short Term: 384 mg/m3 - 100 ppm
National	SPAIN	Long Term: 192 mg/m3 - 50 ppm; Short Term: 384 mg/m3 - 100 ppm
National	GREECE	Long Term: 192 mg/m3 - 50 ppm; Short Term: 384 mg/m3 - 100 ppm
National	DENMARK	Long Term: 94 mg/m3 - 25 ppm
National	FINLAND	Long Term: 81 mg/m3 - 25 ppm; Short Term: 380 mg/m3 - 100 ppm
National	GERMANY	Long Term: 190 mg/m3 - 50 ppm
National	PORTUGAL	Long Term: 192 mg/m3 - 50 ppm; Short Term: 384 mg/m3 - 100 ppm
National	NORWAY	Long Term: 94 mg/m3 - 25 ppm; Short Term: 141 mg/m3 - 37,5 ppm
National	BELGIUM	Long Term: 77 mg/m3 - 20 ppm; Short Term: 384 mg/m3 - 100 ppm
NDS	POLAND	Long Term: 100 mg/m3
NDSCh	POLAND	Short Term: 200 mg/m3
CHE	SWITZERLAN D	Short Term: 760 mg/m3 - 200 ppm
NDS	NETHERLAND S	Long Term: 150 mg/m3; Short Term: 384 mg/m3
National	CZECH REPUBLIC	Long Term: 200 mg/m3
National	HUNGARY	Long Term: 190 mg/m3; Short Term: 380 mg/m3
Malaysi a OEL	MALAYSIA	Long Term: 188 mg/m3 - 50 ppm Skin notation
National	ESTONIA	Long Term: 192 mg/m3 - 50 ppm; Short Term: 384 mg/m3 - 100 ppm
National	LATVIA	Long Term: 50 mg/m3 - 14 ppm; Short Term: 150 mg/m3 - 40 ppm
National	CZECH REPUBLIC	Ceiling - Short Term: 500 mg/m3
National	SLOVAKIA	Ceiling - Short Term: 384 mg/m3

tetraethyl silicate  
CAS: 78-10-4

National SLOVAKIA	Long Term: 192 mg/m3 - 50 ppm
National SLOVENIA	Long Term: 192 mg/m3 - 50 ppm; Short Term: 384 mg/m3 - 100 ppm
National UNITED KINGDOM	Long Term: 191 mg/m3 - 50 ppm; Short Term: 384 mg/m3 - 100 ppm
National BULGARIA	Long Term: 192 mg/m3 - 50 ppm; Short Term: 384 mg/m3 - 100 ppm
National ROMANIA	Long Term: 192 mg/m3 - 50 ppm; Short Term: 384 mg/m3 - 100 ppm
TUR TURKEY	Long Term: 192 mg/m3 - 50 ppm; Short Term: 384 mg/m3 - 100 ppm
National LITHUANIA	Long Term: 192 mg/m3 - 50 ppm; Short Term: 384 mg/m3 - 100 ppm
National CROATIA	Long Term: 192 mg/m3 - 50 ppm; Short Term: 384 mg/m3 - 100 ppm
ACGIH	Long Term: 10 ppm URT and eye irr, kidney dam
DFG GERMANY	Ceiling - Short Term: 86 mg/m3 - 10 ppm
ACGIH	Long Term: 10 ppm eye and upper respiratory tract irritation; kidney damage
National SWEDEN	Long Term: 44 mg/m3 - 5 ppm
National FRANCE	Long Term: 85 mg/m3 - 10 ppm
National SPAIN	Long Term: 44 mg/m3 - 5 ppm
National GREECE	Long Term: 44 mg/m3 - 5 ppm
National DENMARK	Long Term: 44 mg/m3 - 5 ppm
National FINLAND	Long Term: 43 mg/m3 - 5 ppm; Short Term: 86 mg/m3 - 10 ppm
National GERMANY	Long Term: 12 mg/m3 - 1,4 ppm
National PORTUGAL	Long Term: 10 ppm
National NORWAY	Long Term: 44 mg/m3 - 5 ppm; Short Term: 66 mg/m3 - 10 ppm
National BELGIUM	Long Term: 86 mg/m3 - 10 ppm
NDS POLAND	Long Term: 44 mg/m3
CHE SWITZERLAND	Short Term: 85 mg/m3 - 10 ppm
NDS NETHERLANDS	Long Term: 44 mg/m3
National CZECH REPUBLIC	Long Term: 50 mg/m3
National HUNGARY	Long Term: 44 mg/m3
Malaysian OEL	Long Term: 85 mg/m3 - 10 ppm
National ESTONIA	Long Term: 44 mg/m3 - 5 ppm
National LATVIA	Long Term: 44 mg/m3 - 5 ppm
National CZECH REPUBLIC	Ceiling - Short Term: 200 mg/m3
National SLOVAKIA	Long Term: 44 mg/m3 - 5 ppm
National SLOVENIA	Long Term: 170 mg/m3 - 20 ppm; Short Term: 170 mg/m3 - 20 ppm
National BULGARIA	Long Term: 44 mg/m3 - 5 ppm
National ROMANIA	Long Term: 44 mg/m3 - 5 ppm
National LITHUANIA	Long Term: 44 mg/m3 - 5 ppm
National CROATIA	Long Term: 44 mg/m3 - 5 ppm
National PORTUGAL	Long Term: 44 mg/m3 - 5 ppm
National BELGIUM	Long Term: 44 mg/m3 - 5 ppm
National SLOVENIA	Long Term: 44 mg/m3 - 5 ppm; Short Term: 44 mg/m3 - 5 ppm

#### Biological limit values

acetone  
CAS: 67-64-1

Biological Indicator: Acetone; Sampling Period: End of turn  
Value: 25 mg/L; Medium: Urine  
Remark: Not Specific

toluene  
CAS: 108-88-3

Biological Indicator: Toluene; Sampling Period: Before last turn of the working week  
Value: 0.02 mg/L; Medium: Blood

Biological Indicator: Toluene; Sampling Period: End of turn

Value: 0.03 mg/L; Medium: Urine

Biological Indicator: O-Cresol; Sampling Period: End of turn  
Value: 0.3 MGGCREAT; Medium: Urine  
Remark: Background

### Predicted No Effect Concentration (PNEC) values

acetone  
CAS: 67-64-1

Exposure Route: Freshwater sediments; PNEC Limit: 30,4 mg/kg

Exposure Route: Marine water sediments; PNEC Limit: 3,04 mg/kg

Exposure Route: Fresh Water; PNEC Limit: 10,6 mg/l

Exposure Route: Marine water; PNEC Limit: 1,06 mg/l

Exposure Route: Soil; PNEC Limit: 29,5 mg/l

Exposure Route: Microorganisms in sewage treatments; PNEC Limit: 100 mg/l

toluene  
CAS: 108-88-3

Exposure Route: Freshwater sediments  
Remark: PNEC

Exposure Route: Soil  
Remark: PNEC

Exposure Route: Marine water sediments  
Remark: PNEC

Exposure Route: Fresh Water  
Remark: PNEC

Exposure Route: Marine water  
Remark: PNEC

Exposure Route: Intermittent release  
Remark: PNEC

Exposure Route: Microorganisms in sewage treatments

### Derived No Effect Level (DNEL) values

acetone  
CAS: 67-64-1

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Industry: 186 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Worker Industry: 2420 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Industry: 1210 mg/m<sup>3</sup>

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects  
Consumer: 62 mg/kg

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Consumer: 62 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Consumer: 200 mg/m<sup>3</sup>

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, local effects  
Worker Industry: 2420 mg/m<sup>3</sup>

toluene  
CAS: 108-88-3

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Worker Industry: 384 mg/m<sup>3</sup>; Consumer: 226 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Long Term, systemic effects  
Worker Industry: 192 mg/m<sup>3</sup>

Exposure Route: Human Oral; Exposure Frequency: Long Term, systemic effects

Exposure Route: Human Dermal; Exposure Frequency: Long Term, systemic effects  
Consumer: 226 mg/kg

Exposure Route: Human Inhalation; Exposure Frequency: Short Term, systemic effects  
Worker Industry: 384 mg/m<sup>3</sup>

### 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:

Suitable materials for safety gloves; EN ISO 374:

Polychloroprene - CR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Nitrile rubber - NBR: thickness  $\geq 0,35\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Butyl rubber - IIR: thickness  $\geq 0,5\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Fluorinated rubber - FKM: thickness  $\geq 0,4\text{mm}$ ; breakthrough time  $\geq 480\text{min}$ .

Neoprene gloves are suggested (0,5 mm) not recommended gloves: not waterproof gloves

#### Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN ISO 374 for gloves and EN ISO 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user information.

Respiratory protection must be used where exposure levels exceed workplace exposure limits. Refer to appropriate EN standards, like EN 136, 140, 143, 149, 14387 for information on selection and use of appropriate respiratory protection equipment.

In case of insufficient ventilation use mask with ABEKP filters (EN 14387).

Use adequate protective respiratory equipment.

#### Hygienic and Technical measures

Not available

#### Appropriate engineering controls:

Not available

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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state: Liquid

Appearance: liquid

Color: Colourless

Odour: solvent like

Odour threshold: Not available

Melting point / freezing point:  $-50\text{ }^{\circ}\text{C}$  ( $-58\text{ }^{\circ}\text{F}$ )

Initial boiling point and boiling range:  $56\text{ }^{\circ}\text{C}$  ( $133\text{ }^{\circ}\text{F}$ )

Flammability: The product is classified Flam. Liq. 2 H225

Upper/lower flammability or explosive limits: Not available

Flash point:  $-18\text{ }^{\circ}\text{C}$  ( $0\text{ }^{\circ}\text{F}$ )

Auto-ignition temperature:  $540.00\text{ }^{\circ}\text{C}$

Decomposition temperature: Not available

pH: 7.00

Viscosity: Not available

Kinematic viscosity:  $\leq 20,5\text{ mm}^2/\text{sec}$  ( $40\text{ }^{\circ}\text{C}$ )  $\text{mm}^2/\text{s}$

Solubility in water:  $900\text{ g/l}$  ( $20^{\circ}\text{C}$ )

Solubility in oil: soluble

Partition coefficient (n-octanol/water): Not available

Vapour pressure: 23.00

Relative density:  $0.90\text{ g/cm}^3$

Vapour density: 2.0

#### Particle characteristics:

Particle size: Not available

### 9.2. Other information

Miscibility: Not available

Conductivity: Not available

Explosive properties: 2.3%-13.0%

No other relevant information

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## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Stable under normal conditions

### 10.2. Chemical stability

Stable under normal conditions

### 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	The product is classified: Skin Irrit. 2(H315)
c) serious eye damage/irritation	The product is classified: Eye Irrit. 2(H319)
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	The product is classified: Repr. 2(H361)
h) STOT-single exposure	The product is classified: STOT SE 3(H336)
i) STOT-repeated exposure	The product is classified: STOT RE 2(H373)
j) aspiration hazard	The product is classified: Asp. Tox. 1(H304)

#### Toxicological information on main components of the mixture:

acetone	a) acute toxicity	LD50 Oral Rat = 5800 mg/kg LD50 Skin Rabbit = 20000 mg/kg LC50 Inhalation Rat = 76 mg/l 4h LC50 Inhalation Rat = 50100, mg/m <sup>3</sup> 8h
toluene	a) acute toxicity	LD50 Oral Rat = 5580, mg/kg LD50 Skin Rabbit = 12124, mg/kg LC50 Inhalation Rat = 12,5 mg/l 4h
	g) reproductive toxicity	NOAEC Rat = 1200, ppm NOAEL Rat = 2000, ppm
tetraethyl silicate	a) acute toxicity	LD50 Skin Rabbit = 5878 mg/kg LD50 Oral Rat = 6270 mg/kg LC50 Inhalation Rat = 10, mg/l

### 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:

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

Not classified for environmental hazards.

Based on available data, the classification criteria are not met

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

Component	Ident. Numb.	Ecotox Data
acetone	CAS: 67-64-1 - EINECS: 200- 662-2 - INDEX: 606-001-00-8	a) Aquatic acute toxicity : EC50 Daphnia = 8800 mg/L 48h  a) Aquatic acute toxicity : LC50 Fish = 5540 mg/L 96h a) Aquatic acute toxicity : EC50 Algae = 302 mg/L 96h

toluene

CAS: 108-88-3 - a) Aquatic acute toxicity : EC50 Algae = 134 mg/L 3  
EINECS: 203-  
625-9 - INDEX:  
601-021-00-3

a) Aquatic acute toxicity : EC50 Algae *Pseudokirchneriella subcapitata* > 433 mg/L 96h IUCLID

tetraethyl silicate

CAS: 78-10-4 -  
EINECS: 201-  
083-8 - INDEX:  
014-005-00-0

a) Aquatic acute toxicity : LC50 Fish = 5,5 mg/L 96h

a) Aquatic acute toxicity : LC50 Fish *Danio rerio* > 245 mg/L 96h ECHA

## 12.2. Persistence and degradability

### Component

### Persistence/Degradability:

acetone

Readily biodegradable

toluene

Readily biodegradable

## 12.3. Bioaccumulative potential

N.A.

## 12.4. Mobility in soil

N.A.

## 12.5. Results of PBT and vPvB assessment

No PBT, vPvB or endocrine disruptor 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

Not available

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## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

The generation of waste should be avoided or minimized wherever possible. Recover if possible.

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

Methods of disposal:

Disposal of this product, solutions, packaging and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.

Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor.

Do not dispose of waste into sewers.

Hazardous waste: Yes

Disposal considerations:

Do not allow to enter drains or watercourses.

Dispose of product according to all federal, state and local applicable regulations.

If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned.

Dispose of containers contaminated by the product in accordance with local or national legal provisions. For further information, contact your local waste authority.

Special precautions:

This material and its container must be disposed of in a safe way. Care should be taken when handling untreated empty containers.

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

Empty containers or liners may retain some product residues. Do not re-use empty containers.

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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: II

IATA-Packing group: II

IMDG-Packing group: II

#### **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: NA

ADR-Special Provisions: 163 367 640C 650

ADR-Transport category (Tunnel restriction code): 2 (D/E)

Air (IATA):

IATA-Passenger Aircraft: 353

IATA-Cargo Aircraft: 364

IATA-Label: 3

IATA-Subsidiary hazards: -

IATA-Erg: 3L

IATA-Special Provisions: A3 A72 A192

Sea (IMDG):

IMDG-Stowage Code: Category B

IMDG-Stowage Note: -

IMDG-Subsidiary hazards: -

IMDG-Special Provisions: 163 367

IMDG-EMS: F-E, S-E

#### **14.7. Maritime transport in bulk according to IMO instruments**

Not Applicable

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### **SECTION 15: Regulatory information**

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

VOC (2004/42/EC) : N.A. g/l

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 (EU) n. 2020/878

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. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 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. 2021/849 (ATP 17 CLP)  
Regulation (EU) n. 2022/692 (ATP 18 CLP)

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
<b>Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:</b>		
Restrictions related to the product: 3, 40		
Restrictions related to the substances contained: 48, 75		
<b>SVHC Substances:</b>		
SVHC substances not present in a concentration $\geq 0.1\%$ (w/w)		
<b>National regulations</b>		
Produktregisteret Norge: 53210		
Produktregister Danmark: 4294182		
MAL-kode: 4-3 (1993)		
Lagerklasse (TRGS-510): 3 - Flammable liquids		
<b>German Water Hazard Class.</b>		
2		
<b>15.2. Chemical safety assessment</b>		
No 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.	
H315	Causes skin irritation.	
H319	Causes serious eye irritation.	
H332	Harmful if inhaled.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
H361d	Suspected of damaging the unborn child.	
H373	May cause damage to organs through prolonged or repeated exposure.	
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/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
3.7/2	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
<b>Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:</b>		
	Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
	2.6/2	On basis of test data
	3.2/2	Calculation method
	3.3/2	Calculation method
	3.7/2	Calculation method
	3.8/3	Calculation method
	3.9/2	Calculation method

If appropriate, specific provisions in relation to possible training for workers are mentioned in section 2. Any training related to safety in the workplace must in any case refer to a risk assessment that must be carried out by a company safety officer taking into account the specific operating and environmental conditions in which the products are used.

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 SDS 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: KAFH

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:**

- SECTION 3: Composition/information on ingredients
- SECTION 8: Exposure controls/personal protection
- SECTION 9: Physical and chemical properties
- SECTION 15: Regulatory information
- SECTION 16: Other information