

# Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)



## 70503 Xylene

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### 1. Identification of the Substance/Mixture and of the Company/Undertaking

#### 1.1. Product Identifier

Product Name: Xylene

Article No.: 70503

UFI: --

#### 1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses: Solvent

Uses advised against: At present we have no details for the uses advised against.

#### 1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Kremer Pigmente GmbH & Co. KG

Address: Hauptstr. 41-47, 88317 Aichstetten, Germany

Tel./Fax.: Tel +49 7565 914480, Fax +49 7565 1606

Internet: www.kremer-pigmente.com

EMail: info@kremer-pigmente.com

Importer: --

#### 1.4. Emergency No.

Emergency No.: +49 7565 914480 (Mon-Fri 8:00 - 17:00)

#### 1.4.2 Poison Center:

### 2. Hazards Identification

#### 2.1. Classification of the Substance or Mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)

Flammable liquids, hazard category 3  
Aspiration hazard, hazard category 1  
Acute toxicity (dermal), hazard category 4  
Skin irritation, hazard category 2  
Eye irritation, hazard category 2  
Acute toxicity (inhalation), hazard category 4  
Specific Target Organ Toxicity (single exposure), hazard category 3  
Specific target organ toxicity (repeated exposure), hazard category 2

H226 Flammable liquid and vapour.

Cat.: 3

H304 May be fatal if swallowed and enters airways.

Cat.: 1

H312 Harmful in contact with skin.

Cat.: 4

H315 Causes skin irritation.

Cat.: 2

H319 Causes serious eye irritation.

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Cat.: 2

H332 Harmful if inhaled.

Cat.: 4

H335 May cause respiratory irritation.

Cat.: 3

H373 May cause damage to organs through prolonged or repeated exposure.

Cat.: 2

## *Possible Environmental Effects:*

See Section 12.

## **2.2. Label Elements**

*Classification according to Regulation (EC) No. 1272/2008 (CLP/GHS)*

### *Hazard designation:*



GHS02



GHS07



GHS08-2

### *Signal word:*

Danger

### *Hazard designation:*

H226

Flammable liquid and vapour.

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.

H373

May cause damage to organs through prolonged or repeated exposure.

### *Safety designation:*

P210

Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P301+P310

If swallowed: Immediately call a poison center or physician.

P305+P351+P338

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.

P331

Do not induce vomiting.

P370+P378

In case of fire: use water spray, foam, carbon dioxide or dry extinguishing powder for extinction.

P403+P233

Store in a well ventilated place. Keep container tightly closed.

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P403+P235

Store in a well ventilated place. Keep cool.

### *Hazardous components for labelling:*

*Xylene*

### **2.3. Other Hazards**

### **3. Composition/Information on Ingredients**

#### **3.1. Substance**

#### **3.2. Mixture**

*Chemical Characterization:* *Xylene (mixture of isomers)*

*Information on Components / Hazardous Ingredients:*

Xylene (H226-304-312-315-319-332-335-373); REACH Reg. No. 02-2119488216-32	75 - 90 %	CAS-Nr: 1330-20-7 EINECS-Nr: 215-535-7 EC-Nr: 601-022-00-9
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Ethylbenzene (H225-304-332-373-412); REACH No. 01-2119489370-35-xxxx	10 - 25 %	CAS-Nr: 100-41-4 EINECS-Nr: 202-849-4 EC-Nr: 601-023-00-4
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Toluene (H225-304-315-336-361d-373-412); REACH Reg.-No. 01-2119471310-51-xxxx	< 1 %	CAS-Nr: 108-88-3 EINECS-Nr: 203-625-9 EC-Nr: 601-021-00-3
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*Additional information:*

### **4. First Aid Measures**

#### **4.1. Description of the First Aid Measures**

*General information:*

*Take person away from hazardous area.  
Remove contaminated clothes immediately.  
First aiders: mind self-protection!*

*After inhalation:*

*Supply fresh air. If required give artificial respiration. In case of complaints or unconsciousness consult a physician. In case of unconsciousness place patient stable in side position for transportation.*

*After skin contact:*

*Remove contaminated clothing. Wash off immediately with plenty of water and soap.  
After extensive or prolonged skin contact: seek medical treatment.*

*After eye contact:*

*Rinse open eyes with plenty of water for at least 15 minutes.  
Consult physician.  
Remove contact lens.*

*After ingestion:*

*Rinse mouth thoroughly with plenty of water. Do not induce*

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*vomiting. Consult physician immediately.*

*Risk of aspiration!*

*Rinse mouth thoroughly with plenty of water. Do not induce vomiting. Consult physician immediately.*

*Never give anything by mouth to an unconscious person.*

## 4.2. Most important Symptoms and Effects, both Acute and Delayed

*Symptoms:*

*Headache, dizziness, breathing difficulties.*

*Headache, dizziness, nausea, breathlessness, drowsiness.*

*Effects:*

*If vomiting occurs after ingestion, aspiration into the lungs can occur. Aspiration can cause pulmonary edema and pneumonia.*

## 4.3. Indication of any Immediate Medical Attention and special Treatment needed

*Treatment:*

*Subsequent observation for pneumonia and pulmonary edema. Monitor the circulation.*

## 5. Fire-Fighting Measures

### 5.1. Extinguishing Media

*Suitable extinguishing media:*

*Water mist, extinguishing powder, foam, carbon dioxide.*

*Unsuitable extinguishing media:*

*Water with full jet.*

### 5.2. Special Hazards arising from the Substance or Mixture

*Special hazards:*

*Flammable liquid.*

*Fumes can form an explosive mixture with air.*

*Carbon monoxide may be evolved if incomplete combustion occurs. Will float and can be reignited on surface water. The vapor is heavier than air, spreads along the ground and distant ignition is possible.*

*Product floats on water surface and does not dissolve.*

### 5.3. Advice for Firefighters

*Protective equipment:*

*Wear self-contained respiratory protective device and full protective gear.*

*Further information:*

*Cool exposed containers with water mist.*

*Collect contaminated extinguishing water and debris separately; avoid contamination of sewage system.*

## 6. Accidental Release Measures

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

*Personal precautions:*

*Wear appropriate protective equipment. Keep spectators away.*

*Provide adequate ventilation. Keep away from sources of ignition.*

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*Avoid contact with eyes and skin.  
Do not inhale aerosol/fumes/vapors.*

## 6.2. Environmental Precautions

*Environmental precautions:*

*Prevent contamination of soils, drains and surface water.  
Contact local authorities if product pollutes soil or vegetation.*

## 6.3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Contain with absorbent material (sand, diatomaceous earth, acid binder, universal absorbent) and dispose accordingly.  
Risk of explosion. If substance has entered a water body or drainage system, or was spilled on soil or vegetation, advise police or fire brigade. Vapors may form explosive mixture with air.  
Dispose waste according to section 13.*

## 6.4. Reference to other Sections

*Protective clothing, see Section 8.  
See Section 13 for information on disposal.*

## 7. Handling and Storage

### 7.1. Precautions for Safe Handling

*Instructions on safe handling:*

*Keep containers tightly closed.  
Earth all devices and apparatus. Avoid spilling or spraying in closed rooms.  
Provide adequate ventilation.  
Avoid contact with eyes and skin.  
Do not breathe vapors, spray or gas.*

*Hygienic measures:*

*Take off contaminated clothing immediately.  
Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.*

### 7.2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store in tightly sealed containers in a cool and well ventilated location.  
Protect against heat and direct sunlight.*

*Requirements for storage areas and containers:*

*Store in containers which are permitted for this product.  
Suitable container material: stainless steel.  
Unsuitable container material: polyethylene, polyvinyl chloride, rubber products.*

*Information on fire and explosion protection:*

*Ensure electrical continuity by bonding and grounding (earthing) all equipment.  
Keep away from sources of ignition - do not smoke. Take*

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*measures to prevent electrostatic discharge.  
Do not store together with: strong oxidants.  
Do not store together with: strong acids.  
Do not store together with combustible and self-ignitable products.*

*Storage class:*

3; Flammable liquids (TRGS 510)

*Further Information:*

*The product is slightly hazardous to water. Consider national regulations regarding handling and storage.*

## 7.3. Specific End Use(s)

*Further information:*

*No information available.*

## 8. Exposure Controls/Personal Protection

### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*Xylene (CAS 1330-20-7); TLV (TRGS 900): 440 mg/m<sup>3</sup>, 100 ppm (2)*

*Ethylbenzene (CAS 100-41-4); TLV: 88 mg/m<sup>3</sup>, 20 ppm (long-term value); 176 mg/m<sup>3</sup>, 40 ppm (short-term value)*

*Can be absorbed by the skin.*

*Parameters to be controlled:*

*Xylene (CAS 1330-2-7): Threshold Limit Value (TWA): 221 mg/m<sup>3</sup>, 50 ppm*

*Xylene (CAS 1330-20-7): Short Term Exposure Limit (STEL): 442 mg/m<sup>3</sup>, 100 ppm*

*Xylene (CAS 1330-20-7), TWA (OEL, EU): 221 mg/m<sup>3</sup>, 50 ppm; STEL (OEL, EU): 442 mg/m<sup>3</sup>, 100 ppm; 2(II); Can be absorbed by the skin.*

*Xylene (CAS 1330-20-7), MAK (CH): Average value: 100 ppm; 435 mg/m<sup>3</sup>; Short term value: 200 ppm; 870 mg/m<sup>3</sup>; MAK (A): Average value: 50 ppm; 221 mg/m<sup>3</sup>; Short term value: 100 ppm; 442 mg/m<sup>3</sup>*

*Ethylbenzene (CAS 100-41-4): Short Term Exposure Limit (STEL): 884 mg/m<sup>3</sup>, 200 ppm; Threshold Limit Value (TWA): 442 mg/m<sup>3</sup>, 100 ppm*

*Ethylbenzene (CAS 100-41-4), MAK (CH): Average value: 50 ppm; 220 mg/m<sup>3</sup>; Short term value: 50 ppm; 220 mg/m<sup>3</sup>; MAK (A): Average value: 100 ppm; 440 mg/m<sup>3</sup>; Short term value: 200 ppm; 880 mg/m<sup>3</sup>*

*Derived No-Effect Level (DNEL):*

*Xylene (1330-20-7):*

*180 mg/m<sup>3</sup> (worker, skin contact, long-term exposure - systemic effects)*

*77 mg/m<sup>3</sup> (worker, inhalation, long-term exposure - systemic effects)*

*Ethylbenzene:*

*293 mg/m<sup>3</sup> (worker, inhalation, short-term exposure - local effects)*

*180 mg/kg (worker, skin contact, long-term exposure - systemic*

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effects)

77 mg/m<sup>3</sup> (worker, inhalation, long-term exposure - systemic effects)

Toluene (108-88-3):

192 mg/m<sup>3</sup> (worker, inhalation, long-term exposure - systemic and local effects)

384 mg/m<sup>3</sup> (worker, inhalation, short-term exposure - systemic and local effects)

384 mg/kg bw/d (worker, skin contact, long-term exposure - systemic effects)

*Predicted No-Effect Concentration (PNEC):*

Xylene (1330-20-7):

Fresh water: 0.327 mg/l

Sea water: 0.327 mg/l

Intermittent release: 0.327 mg/l

Sewage treatment system (STP): 6.58 mg/l

Fresh water sediment: 12.46 mg/kg

Seawater sediment: 12.46 mg/kg

Soil: 2.31 mg/kg

Ethylbenzene:

Fresh water: 0.1 mg/l

Seawater: 0.01 mg/l

Fresh water sediment: 13.7 mg/kg

Sea water sediment: 1.37 mg/kg

Sewage treatment system (STP): 9.6 mg/l

Soil: 2.68 mg/kg

*Additional Information:*

## 8.2. Exposure Controls

*Technical protective measures:*

*No further measures, see Section 7.*

*Personal Protection*

*General protective measures:*

*Avoid contact with skin and avoid inhalation of vapour. Do not eat, drink or smoke while working.*

*Remove contaminated clothing. Wash hands after work.*

*Respiratory protection:*

*Required in case of formation of vapors and aerosols.*

*Respirator mask required if ventilation is insufficient. Wear filter respirator in case of short-term or low exposure, and wear a self-contained breathing apparatus in case of long-term or higher exposure.*

*Full protective mask according to standard DIN EN 136. Gas filter Type A (EN 141; organic gases/vapors).*

*Hand protection:*

*Protective gloves. The glove material has to be impermeable and resistant to the product / substance / preparation.*

*Protective gloves should be changed regularly, especially after next page:* 8

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*intensive contact with the product.*

*Protective glove material:*

*Fluoro carbon rubber - FKM (> 480 min; 0.4 mm).*

*Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers.*

*Eye protection:*

*Safety glasses with protective shields (EN 166).*

*Body protection:*

*Protective clothing.*

*Environmental precautions:*

*Prevent contamination of open water ways and sewage system.  
Avoid contamination of ground water.*

## 9. Physical and Chemical Properties

### 9.1. Information on Basic Physical and Chemical Properties

*Form:* liquid

*Color:* colorless

*Odor:* aromatic

*Odor threshold:* no information available

*pH-Value:* not applicable

*Melting temperature:* -47.8°C (1013 hPa)

*Boiling temperature:* 139°C (1013 hPa)

*Flash point:* > 27°C (1013 hPa)

*Evaporation rate:* No information available.

*Flammability (solid, gas):* Flammable liquid according to GHS criteria

*Upper explosion limit:* 7 Vol.-%

*Lower explosion limit:* 0.8 Vol.-%

*Vapor pressure:* 0.207 PSI (85°F)

*Vapor density:* 3.7 (20°C) (air=1)  
No information available.

*Density:* 0.88 g/cm3 (25°C)

*Solubility in water:* 146 mg/l (25°C)

*Coefficient of variation (n-Octanol/Water):* 3.2 logKOW (pH 7; 20°C)

*Auto-ignition temperature:* not determined

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*Decomposition temperature:*

*No data available.*

*Viscosity, dynamic:*

*0.76 mm<sup>2</sup>/s (20°C)*

*Explosive properties:*

*Product is not explosive; however, an explosive vapor/air mixture can be formed.*

*Oxidizing properties:*

*no information available*

*Bulk density:*

*not applicable*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic:*

*Burning class:*

*Solvent content:*

*Solid content:* 0 %

*Particle size:*

*Other information:*

*Surface tension: 28.7 mN/m*

## 10. Stability and Reactivity

### 10.1. Reactivity

*When heated: risk of ignition.*

### 10.2. Chemical Stability

*Stable if used according to specifications.*

### 10.3. Possibility of Hazardous Reactions

*Vapors in combination with air can form an explosive compound.*

### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Avoid heat, open fire and other ignition sources.*

*Avoid direct sunlight.*

*Thermal decomposition:*

*No data available.*

### 10.5. Incompatible Materials

*Oxidizing agents.*

### 10.6. Hazardous Decomposition Products

*In the event of fire or thermal decomposition: formation of carbon oxides and other toxic gases and vapors.*

### 10.7. Further Information

## 11. Toxicological Information

### 11.1. Information on Hazard Classes as defined in Regulation (EC) No. 1272/2008

*Acute Toxicity*

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*Harmful after skin contact. Harmful if inhaled.*

*LD50, oral:*

*Xylene (1330-20-7): > 5627 mg/kg (mouse)*

*Ethylbenzene (100-41-4): 3500 mg/kg (rat)*

*Toluene: LD50: 5580 mg/kg (rat)*

*LD50, dermal:*

*Acute toxicity estimate (ATE): 1302 mg/kg*

*Toluene: LD50: >5000 mg/kg (rabbit)*

*Ethylbenzene (100-41-7): 15354 mg/kg (rabbit)*

*LC50, inhalation:*

*Acute toxicity estimate (ATE): 11.06 mg/l (4h)*

*Toluene: LC50: 28.1 mg/l (4h, rat)*

### Primary effects

*Irritant effect on skin:*

*Causes skin irritation.*

*Irritant effect on eyes:*

*Causes serious eye irritation.*

*Inhalation:*

*No information available.*

*Ingestion:*

*No information available*

*Sensitization:*

*Shall not be classified as a respiratory or skin sensitizer.*

*Mutagenicity:*

*Not classified as mutagenic.*

*Reproductive toxicity:*

*No reproductive toxicity expected.*

*Carcinogenicity:*

*Not cancerogenic.*

*Teratogenicity:*

*No relevant data found.*

*Specific target organ toxicity (STOT):*

*Single exposure: may cause respiratory irritation.*

*Repeated exposure: may cause damage to organs through prolonged or repeated exposure.*

*Aspiration hazard:*

*May be fatal if swallowed and enters airways.*

## 11.2. Information on other Hazards

*No further information available.*

## 12. Ecological Information

### 12.1. Aquatic Toxicity

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### *Fish toxicity:*

*Acute Toxicity: LC50: 8.4 mg/l (96h, Fisch)*

*Toluene: LC50: 5.5 mg/l (96h, fish)*

*Ethylbenzene: LC50: 7 mg/l (24h, fish)*

### *Daphnia toxicity:*

*Toluene (Chronic): EC50: 3.23 mg/l (7d, Daphnia magna); LC50: 3.78 mg/l (2d; Daphnia magna)*

*Ethylbenzene: EC50: 2.4 mg/l (48h, Daphnia magna); NOEC: 2.8 mg/l (24h, Daphnia magna)*

*Chronic Toxicity: EL50: 2.9 mg/l (21d, Daphnia magna)*

### *Bacteria toxicity:*

*Toluene: EC50: 84 mg/l (24h)*

### *Algae toxicity:*

*Acute Toxicity: ErC50: 4.7 mg/l (72h, algae); EC50: 4.9 mg/l (72h, algae)*

*Chronic Toxicity: ErC50: 4.36 mg/l (73h, algae); EC50: 2.2 mg/l (73h, algae)*

## 12.2. Persistency and Degradability

*Readily biodegradable.*

*Oxygen consumption: 98 % (28d)*

## 12.3. Bioaccumulation

*log KOW: 3.2 (pH 7, 20°C)*

*BCF: >5.5 -<12.2 (ECHA)*

## 12.4. Mobility

*Henry Constant: 623 Pa.m3/mol (25°C)*

*Adsorption: Adsorption coefficient (Organic Carbon): 2.73 (ECHA)*

## 12.5. Results of PBT- und vPvP Assessment

*This substance is not classified as PBT (persistent, bioaccumulative, toxic), nor as vPvB (very persistent, very bioaccumulative).*

## 12.6. Endocrine Disrupting Properties

*No data available.*

## 12.7. Other Adverse Effects

### *Water hazard class:*

*2 (German Regulation) (Assessment by list): hazardous.*

*Do not let product contaminate ground water, waterways or sewage system.*

### *Behaviour in sewage systems:*

### *Further ecological effects:*

### *AOX Value:*

## 13. Disposal Considerations

### 13.1. Waste Treatment Methods

#### *Product:*

*Dispose of according to official national and local regulations.*

*Must be treated as toxic waste according to local laws and next page: 12*

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regulations.

Must not be disposed together with household garbage.

European Waste Code (EWC):

The waste code must be determined together with the regional disposal service.

Uncleaned packaging:

Dispose of according to official local regulations.

Do not puncture, cut or weld uncleaned drums. Risk of explosion.

Contaminated packaging must be disposed like the substance.

Waste Code No.:

### 14. Transport Information

#### 14.1. UN Number

ADR, IMDG, IATA 1307

#### 14.2. UN Proper Shipping Name

ADR/RID: XYLOL

IMDG/IATA: XYLENE

#### 14.3. Transport Hazard Classes

ADR Class: 3

Hazard no.: 3

Classification code: F1

Tunnel restriction code: D/E

IMDG Class (sea): 3

Hazard no.: 3

EmS No.: F-E, S-D

IATA Class: 3

Hazard no.: 3

#### 14.4. Packaging Group

ADR/RID: III

IMDG: III

IATA: III

#### 14.5. Environmental Hazards

Labelling according 5.2.1.8 ADR/RID: no

Labelling according 5.2.1.6.3 IMDG: no

Classification as environmentally hazardous according 2.9.3  
IMDG: no

Labelled with "P" according 2.10 IMDG: no

#### 14.6. Special Precautions for User

not applicable

#### 14.7. Maritime Transport in Bulk according to IMO Instruments

IMDG: not applicable

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## 14.8. Further Information

### 15. Regulatory Information

#### 15.1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

*Water hazard class:*

2, hazardous for water (German Regulation)

*Local regulations on chemical accidents:*

Seveso-III Directive (2012/18/EU):

Flammable liquids (P5c): Amount 1: 5000 t; Amount 2: 50000 t

*Employment restrictions:*

*The employment restrictions for expectant and nursing mothers, and for young workers are to be observed.*

*Restriction and prohibition of application:*

*Xylene:*

*EC. REACH, Section XVII, Restrictions on the Manufacture, Placing on the Market and Use of Certain Dangerous Substances, Preparations and Articles, Registered no. 3, 40, 75*

*Technical instructions on air quality:*

*5.2.5.: Organic substances: > 25 wt.-% (m>=0.50 kg/h: conc. 50 mg/m<sup>3</sup>)*

#### 15.2. Chemical Safety Assessment

*A Chemical Safety Assessment has not been carried out for this product.*

#### 15.3. Further Information

*EC. REACH, Annex XIV, Candidate List of Substances of very High Concern (SVHC): not regulated / not applicable*

*EC. Directive 2002/95/EC: This product does not meet the restrictions for dangerous goods used for electronics etc. (RoHs).*

*Regulation on Persistent Organic Pollutants (POP): not listed*

*Regulation (EC) No. 166/2006 concerning the establishment of a European Pollutant Release and Transfer Register (PRTR): Not listed*

*Listed in the following inventories:*

*Xylene: EINECS (215-535-7), TSCA, AICS (AUS), DSL, INV (CA), ENCS (JP)(3)-3, KECI (KR) KE-35427, PICCS (PH)*

*Directive 2010/75/EC on Industrial Emissions:*

*VOC Content: 100 %*

*National regulations Switzerland:*

*Content of volatile organic compounds (VOC): 100 %*

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## 16. Other Information

*This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.*