

# Safety Data Sheet

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



## 79550 Zapon Lacquer, to be thinned with alcohol

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Revised edition: 26.10.2016

Version: 1

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

#### 1.1. Product Identifier

Product Name: Zapon Lacquer, to be thinned with alcohol

Article No.: 79550

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

Identified uses:

Prevents corrosion, discoloration and tarnishing of metallic objects in interior area.

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.de

EMail: info@kremer-pigmente.de

Importer: --

#### 1.4. Emergency No.

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

### 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 2  
Skin corrosion, hazard category 2  
Serious eye damage, hazard category 1  
Specific Target Organ Toxicity (single exposure), hazard category 3

H225 Highly flammable liquid and vapour.

Cat.: 2

H315 Causes skin irritation.

Cat.: 2

H318 Causes serious eye damage.

Cat.: 1

H335 May cause respiratory irritation.

Cat.: 3

H336 May cause drowsiness or dizziness.

Cat.: 3

Classification according to Directive No. 67/548/EC or No. 1999/45/EC

Flammable (F) R11 Highly flammable

Harmful (Xn) R20 Harmful by inhalation.

R21 Harmful in contact with skin.

Harmful (Xn) R22 Harmful if swallowed.

Repeated exposure may cause skin dryness or cracking.

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*Safety Phrases:*

*Possible Environmental Effects:*

See Section 12.

### 2.2. Label Elements

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

*Hazard designation:*



GHS02-2



GHS05



GHS07

*Signal word:*

Danger

*Hazard designation:*

H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

*Safety designation:*

P210	Keep away from heat/ sparks/ open flames/ hot surfaces. No smoking.
P280	Wear protective gloves/ clothing/ eye/ face protection.
P303+P361+P353	If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340	If inhaled: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P370+P378	In case of fire: Use sand, dry extinguishing powder or foam for extinction.
P403+P235	Store in a well ventilated place. Keep cool.

*Hazardous components for labelling:*

### 2.3. Other Hazards

The results of the PBT and vPvB evaluation can be found in section 12.5.

## 3. Composition/Information on Ingredients

### 3.1. Substance

### 3.2. Mixture

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### Chemical Characterization:

#### Information on Components / Hazardous

##### Ingredients:

Ethanol (F; R11; H225; 319); REACH Reg.-Nr. 01-2119457610-43	55 - 60 %	CAS-Nr: 64-17-5 EINECS-Nr: 200-578-6 EC-Nr: 603-002-00-5
n-Butylacetate (R10-66-67; H226-336); REACH Reg. No. 01-2119485493-29-xxxx	5 - 10 %	CAS-Nr: 123-86-4 EINECS-Nr: 204-658-1 EC-Nr: 607-025-00-1
Butan-1-ol (Xi; R10-22-37/38-41-67; H226-302-315-318-335-336); REACH 01-2119484630-38-xxxx	15 - 20 %	CAS-Nr: 71-36-3 EINECS-Nr: 200-751-6 EC-Nr: 603-004-00-6
2-Butoxyethanol (Xn; R20/21/22-36/38; H302-312-315-319-332); REACH Reg. No. 01-2119475108-36-xxxx	< 5 %	CAS-Nr: 111-76-2 EINECS-Nr: 203-905-0 EC-Nr: 603-014-00-0
Nitrocellulose (E; R3; H201)	< 5	CAS-Nr: 9004-70-0 EINECS-Nr: Polymer EC-Nr:
Propanol (F, Xi; R11-36-67; H225-319-336); REACH-Nr. 01-2119457558-25-xxxx	< 3 %	CAS-Nr: 67-63-0 EINECS-Nr: 200-661-7 EC-Nr: 603-117-00-0

### Additional information:

## 4. First Aid Measures

### 4.1. Description of the First Aid Measures

#### General information:

*Remove contaminated clothes immediately.*

#### After inhalation:

*Supply fresh air. Consult physician if symptoms persist.*

*Give artificial respiration in case breathing is not regular or if it has stopped.*

*In case of unconsciousness place patient stable in side position for transportation.*

#### After skin contact:

*Remove contaminated clothing immediately. Wash off immediately with plenty of water and soap.*

*Get medical attention.*

#### After eye contact:

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

#### After ingestion:

*Do not induce vomiting.*

*Rinse mouth with water and drink plenty of water.*

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*Never give anything by mouth to an unconscious person.  
In case of unconsciousness, store, respectively transport in stable side position.  
Immediately get medical help.*

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

*Symptoms:*

*No further information available.*

*Effects:*

*No further information available.*

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

*Treatment:*

*Treat symptomatically.*

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## 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.*

*The vapor is heavier than air, spreads along the ground and distant ignition is possible.*

*Fumes can form an explosive mixture with air.*

*In case of fire: formation of carbon oxides.*

### 5.3. Advice for Firefighters

*Protective equipment:*

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

*Further information:*

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

*Cool exposed containers with water mist.*

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## 6. Accidental Release Measures

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

*Personal precautions:*

*Wear appropriate protective equipment. Keep spectators away.*

*Keep away from sources of ignition. No smoking.*

*Avoid contact with skin and eyes. Do not ingest or inhale.*

### 6.2. Environmental Precautions

*Environmental precautions:*

*Prevent contamination of soils, drains and surface water.*

*Contact local authorities if product pollutes soil or vegetation.*

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### 6. 3. Methods and Material for Containment and Cleaning Up

*Methods and material:*

*Contain with non-flammable absorbent material (e.g. sand, diatomaceous earth, vermiculite) and dispose accordingly.*

### 6. 4. Reference to other Sections

*Protective clothing, see Section 8.*

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## 7. Handling and Storage

### 7. 1. Precautions for Safe Handling

*Instructions on safe handling:*

*Keep containers tightly closed.*

*Avoid contact with eyes, skin and clothing.*

*Do not breathe vapors, spray or gas.*

*A nearby eyewash facility should be available for emergencies.*

*Hygienic measures:*

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

*Take off contaminated clothing immediately.*

### 7. 2. Conditions for Safe Storage, including any Incompatibilities

*Storage conditions:*

*Store in tightly sealed containers in a dry and cool room.*

*Store containers in a well ventilated location.*

*Protect against heat and direct sunlight.*

*Requirements for storage areas and containers:*

*Store in a room with a solvent-proof floor.*

*Suitable container material: stainless steel.*

*Unsuitable container material: polyvinyl chloride, aluminium alloys, copper, copper alloys.*

*Information on fire and explosion protection:*

*Do not store together with: strong oxidants.*

*Take measures to prevent static electricity discharge, earth/ground all equipment.*

*Do not store together with reducing agents.*

*Vapors may form an explosive mixture with air.*

*Self-ignition resp. auto-oxidation is possible.*

*Do not store together with: foodstuffs, beverages and feed.*

*Storage class (VCI):*

*3: Flammable liquids*

*Further Information:*

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

### 7. 3. Specific End Use(s)

*Further information:*

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### 8. Exposure Controls/Personal Protection

#### 8.1. Parameters to be Controlled

*Parameters to be controlled (DE):*

*Butanol-n, CAS 71-36-3; TRGS 900: 100 ppm; 310 mg/m<sup>3</sup> (Y)*

*BAT (DE), 1-Butanol: 10 mg/g (creatinine in urine; end of exposure/shift)*

*BAT (DE), 1-Butanol: 2 mg/g (creatinine in urine; test time: before shift)*

*Ethanol (CAS 64-17-5)*

*TLV: 960 mg/m<sup>3</sup>, 500 ml/m<sup>3</sup>; 2(II); DFG, Y*

*Butylacetate, CAS 123-86-4; TWA: 300 mg/m<sup>3</sup>; 62 ppm (2)*

*Y: No teratogenic risk when the exposure limit values (ELV) and biological limit values (BLV) are adhered to.*

*Parameters to be controlled:*

*Derived No-Effect Level (DNEL):*

*Butanol-n (CAS 71-36-3):*

*310 mg/m<sup>3</sup> (worker, inhalation)*

*55 mg/m<sup>3</sup> (consumer, inhalation, long-term exposition)*

*3125 mg/kg (worker, swallowing, long-term exposition)*

*Ethanol (CAS 64-17-5):*

*1900 mg/m<sup>3</sup> (worker, inhalation, short-term exposition - local effect)*

*343 mg/kg kg/d (worker, skin contact, long-term exposition - systemic)*

*950 mg/m<sup>3</sup> (worker, inhalation, long-term exposition - systemic); (consumer, inhalation; short-term exposition - local effect)*

*206 mg/kg kg/d (consumer, skin contact, long-term exposition - systemic)*

*114 mg/kg (consumer, inhalation, long-term exposition - systemic)*

*87 mg/kg kg/d (consumer, swallowing, long-term exposition - systemic)*

*Butyl acetate (CAS 123-86-4):*

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

*102.34 mg/m<sup>3</sup> (consumer, inhalation, long-term exposition - systemic)*

*Predicted No-Effect Concentration (PNEC):*

*Butanol-n (CAS 71-36-3):*

*Fresh water: 0.082 mg/l*

*Seawater: 0.0082 mg/l*

*Sporadic release: 2.25 mg/l*

*Sewage treatment system (STP): 2476 mg/l*

*Fresh water sediment: 0.178 mg/kg*

*Seawater sediment: 0.0178 mg/kg*

*Soil: 0.015 mg/kg*

*Ethanol (CAS 64-17-5):*

*Fresh water: 0.96 mg/l*

*Seawater: 0.79 mg/l*

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*Fresh water sediment: 3.6 mg/kg*  
*Seawater sediment: 2.9 mg/kg*  
*Sporadic release: 2.75 mg/l*  
*Sewage treatment system (STP): 580 mg/l*  
*Soil: 0.63 mg/kg dwt*  
*Butyl acetate (CAS 123-86-4):*  
*Fresh water: 0.18 mg/l*  
*Seawater: 0.018 mg/l*  
*Fresh water sediment / Seawater sediment: 0.981 mg/kg*  
*Sewage treatment system (STP): 35.6 mg/l*  
*Soil: 0.0903 mg/kg*  
*Sporadic release: 0.36 mg/l*

*Additional Information:*

### 8.2. Exposure Controls

*Technical protective measures:*

*Ensure adequate ventilation, especially in confined areas.*  
*Facilities storing or utilizing this material should be equipped with an eyewash facility.*

*Personal Protection*

*General protective measures:*

*Keep away from foodstuffs and drinks. Do not eat, drink or smoke during work. Wash hands before breaks and at the end of work.*  
*Do not inhale vapor/dust.*  
*Remove contaminated clothing immediately.*  
*Avoid contact with eyes and skin.*

*Respiratory protection:*

*Respiratory equipment required in case of insufficient ventilation, filter type A.*

*Hand protection:*

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

*Protective glove material:*

*Butyl rubber (480 min; 0.5 mm).*  
*Fluoro carbon rubber - FKM (480 min; > 0.4 mm).*  
*Nitrile rubber (480 min, 0.35 mm)*

*Eye protection:*

*Tightly fitting safety goggles (EN 166).*

*Body protection:*

*Protective clothing.*

*Environmental precautions:*

*Prevent contamination of open water ways and sewage system.*  
*Avoid contamination of ground water.*  
*Contact local authorities if large spillages cannot be contained.*

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## 9. Physical and Chemical Properties

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#### 9. 1. Information on Basic Physical and Chemical Properties

Form:	liquid
Color:	colorless
Odor:	alcohol-like
Odor threshold:	No information available.
pH-Value:	not determined
Melting temperature:	not determined
Boiling temperature:	not determined
Flash point:	22°C
Evaporation rate:	No information available.
Flammability (solid, gas):	not available
Upper explosion limit:	no information available
Lower explosion limit:	no information available
Vapor pressure:	not determined
Vapor density:	No information available.
Density:	not determined
Solubility in water:	miscible
Coefficient of variation (n-Octanol/Water):	no information available
Auto-ignition temperature:	No information available.
Decomposition temperature:	
Viscosity, dynamic:	not available
Explosive properties:	
Oxidizing properties:	No information available.

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*Bulk density:*

*not determined*

### 9.2. Further Information

*Solubility in solvents:*

*Viscosity, kinematic*

*Burning class:*

*Solvent content:*

*Solid content:*

*Particle size:*

*Other information:*

## 10. Stability and Reactivity

### 10.1. Reactivity

*Stable if used according to specifications.*

### 10.2. Chemical Stability

*No decomposition if used according to specifications.*

### 10.3. Possibility of Hazardous Reactions

*No information available.*

### 10.4. Conditions to Avoid

*Conditions to avoid:*

*Avoid contact with heat, sparks and open fire.*

*Thermal decomposition:*

### 10.5. Incompatible Materials

*No information available.*

### 10.6. Hazardous Decomposition Products

*No information available.*

### 10.7. Further Information

## 11. Toxicological Information

### 11.1. Information on Toxicological Effects

*Acute Toxicity*

*LD50, oral:*

*Butanol-n: 2292 mg/kg (rat; OECD 401)*

*Ethanol (CAS 64-17-5): 2000 mg/kg (rat; OECD 401)*

*Butyl acetate: 10760 mg/kg (rat; OECD 423)*

*LD50, dermal:*

*Butanol-n: 3430 mg/kg (rabbit)*

*Ethanol (CAS 64-17-5): > 2000 mg/kg (rabbit; OECD 402)*

*Butyl acetate: > 14112 mg/kg (rat; OECD 402)*

*LC50, inhalation:*

*Ethanol (64-17-5): > 20 mg/kg (4h, rat)*

*Butyl acetate: 23.4 mg/l (4h, Ratte; OECD 403)*

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### Primary effects

#### Irritant effect on skin:

Butanol-n: irritating (rabbit)  
Butyl acetate: non irritating (rabbit; OECD 404)

#### Irritant effect on eyes:

Butanol-n: strong irritant effect (rabbit; OECD 405)  
Ethanol (64-17-5): can irritate eyes (OECD 405)  
Butyl acetate: non irritating (rabbit; OECD 405)

#### Inhalation:

No information available.

#### Ingestion:

No information available

#### Sensitization:

Butanol-n: no sensitizing effects observed  
Butyl acetate: not sensitizing (guinea pig; OECD 406)

#### Mutagenicity:

Butyl acetate: not mutagenic (Ames-Test)

#### Reproductive toxicity:

Butanol-n:  
NOAEL parent: 18.5 mg/l (rat, inhalative)  
NOAEL F1: 18.5 mg/l (mouse, inhalative)

#### Cancerogenicity:

No relevant data found.

#### Teratogenicity:

Butanol-n:  
NOAEL: 1454 mg/kg (rat, oral; maternal)  
NOAEL: 5654 mg/kg (rat, oral)  
NOAEL: 10.8 mg/kg (rat, inhalative; maternal)  
NOAEL: 24.7 mg/kg (rat, inhalative)

#### Specific target organ toxicity (STOT):

Butanol-n:  
Single exposure: may cause drowsiness or dizziness.  
Single exposure: may cause respiratory irritation.  
Repeated exposure: no information available.  
Butyl acetate:  
Single exposure: may cause drowsiness or dizziness.  
Repeated exposure: the substance or mixture is not classified as specific target organ toxicant.

#### Additional toxicological information:

Handle in accordance with good industrial hygiene and safety practice.

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## 12. Ecological Information

### 12. 1. Aquatic Toxicity

#### Fish toxicity:

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*Butanol-n*: LC50: 1376 mg/l (96h, *Pimephales promelas*; OECD 203)

*Ethanol*: LC50: 15300 mg/l (96h, *Pimephales promelas*); 11200 mg/l (24h, *Salmo gairdneri*)

*Butyl acetate*: LC50: 18 mg/l (96h, *Pimephales promelas*; OECD 203)

### *Daphnia toxicity:*

*Butanol-n*: EC50: 1328 mg/l (*Daphnia magna*; OECD 202);  
Chronic toxicity: NOEL: 4.1 mg/l (21d, *Daphnia magna*; OECD 211)

*Ethanol*: EC50: 858 mg/l (24h, *Artemia salina*; OECD 202); EC50: > 10000 mg/l (48h, *Daphnia magna*); LC50: 5012 mg/l (48h, *Ceriodaphnia Dubia*)

*Butyl acetate*: EC50: 44 mg/l (48h, *Daphnia magna*)

### *Bacteria toxicity:*

*Butanol-n*: EC50: 2476 mg/l (17h, *Pseudomonas putida*)

*Ethanol*: EC50: 5800 mg/l (4h; *Paramaecium caudatum*)

*Butyl acetate*: IC50: 356 mg/l (40h, *Tetrahymena*)

### *Algae toxicity:*

*Butanol-n*: EC50: 225 mg/l (96h, *Selenastrum capricornutum*; OECD 201)

*Ethanol*: EC50: 275 mg/l (3d, *Chlorella vulgaris*; OECD 201);  
EC10: 11.5 mg/l (3d, *Chlorella vulgaris*; OECD 201)

*Butyl acetate*: EC50: 647.7 mg/l (72h, *Desmodesmus subspicatus*); NOEC: 200 mg/l (*Desmodesmus subspicatus*)

## 12. 2. Persistency and Degradability

*Butanol-n*: 92 % (20d); readily biodegradable

*Ethanol*: readily biodegradable (84 %, 20d).

*Butyl acetate*: 83 % (28d); readily biodegradable (OECD 301D)

## 12. 3. Bioaccumulation

*Butanol-n*: no accumulation expected

*Ethanol*: log Kow -0.3, BCF 0.66. No bioaccumulation.

## 12. 4. Mobility

*Ethanol*: the product is mobile in aqueous environment. Not expected to adsorb on soil.

## 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. Other Adverse Effects

### *Water hazard class:*

1, slightly hazardous

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

### *Behaviour in sewage systems:*

### *Further ecological effects:*

### *AOX Value:*

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### 13. Disposal Considerations

#### 13.1. Waste Treatment Methods

*Product:*

*Dispose of according to official national and local regulations.  
Must not be disposed together with household garbage.*

*European Waste Code (EWC):*

*Uncleaned packaging:*

*Uncontaminated packaging may be recycled. Completely empty  
packaging can be disposed of with the regular waste.  
Packaging may be disposed of in the same manner as the  
product.*

*Waste Code No.:*

### 14. Transport Information

#### 14.1. UN Number

*ADR, IMDG, IATA* 1993

#### 14.2. UN Proper Shipping Name

*ADR/RID:* ENTZÜNDBARER FLÜSSIGER STOFF, N.A.G. (Ethanol, Butanol)

*IMDG/IATA:* FLAMMABLE LIQUID, N.O.S. (Ethanol, Butanol)

#### 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-E

*IATA Class:* 3

*Hazard no.:* 3

#### 14.4. Packaging Group

*ADR/RID:* II

*IMDG:* II

*IATA:* II

#### 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: yes*

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### 14. 6. Special Precautions for User

*not applicable*

### 14. 7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

*IMDG: not applicable*

### 14. 8. Further Information

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## 15. Regulatory Information

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

*Water hazard class:*

*1, slightly hazardous for water (German Regulation)*

*Local regulations on chemical accidents:*

*Employment restrictions:*

*The employment restrictions for young workers in accordance with the Youth Employment Protection Law (94/33/EC) are to be observed.*

*The employment restrictions for expectant and nursing mothers in accordance with the Maternity Protection Guideline (94/85/EEC) are to be observed.*

*Restriction and prohibition of application:*

*Technical instructions on air quality:*

### 15. 2. Chemical Safety Assessment

*This product contains substances for which a Chemical Safety Assessment has been carried out.*

### 15. 3. Further Information

*Butanol-n: EC. Regulation No. 1451/2007 (Biocide), Annex I, Substances identified as existing (OJ (L325). Registered under EC Number 200-751-6.*

*Ethanol: EC. Regulation No. 1451/2007 (Biocide), Annex I, Substances identified as existing (OJ (L325). Registered under EC Number 200-578-6*

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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.*