

**Safety Data Sheet**  
according to Regulation (EC) No. 1907/2006 (REACH)  
according to Regulation (EU) 2015/830

**JANSEN**

Article No.: 40-81  
Print date 29.08.2017  
Version 18.0

Zinkausbesserungsfarbe  
Revision date 11.08.2017  
Issue date 11.08.2017

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

1.1. **product identifiers**

Article No. (manufacturer/supplier): 40-81  
Identification of the substance or mixture  
Zinkausbesserungsfarbe  
silber  
metallisch glänzend

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

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

**Supplier (manufacturer/importer/only representative/downstream user/distributor)**

P.A. Jansen GmbH u. Co., KG  
Maler-Spezialprodukte  
Hochstadenstraße 22  
D-53474 Bad Neuenahr-Ahrweiler  
Telephone: +49 2641 3897-0  
Telefax: +49 2641 3897-28  
Homepage: www.jansen.de

**Dept. responsible for information:**

laboratory  
E-mail (competent person) info@jansen.de

1.4. **Emergency telephone number**

Emergency telephone number +49 2641 3897-53  
Only available during office hours.

**SECTION 2: Hazards identification**

2.1. **Classification of the substance or mixture**

**Classification according to Regulation (EC) No 1272/2008 [CLP]**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.

2.2. **Label elements**

The product is classified and labelled according to EC directives or corresponding national laws.

**Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

**Hazard pictograms**



**Warning**

**Hazard statements**

H226 Flammable liquid and vapour.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H410 Very toxic to aquatic life with long lasting effects.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of the reach of children.  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P271 Use only outdoors or in a well-ventilated area.  
P370 + P378 In case of fire: Use extinguishing powder or sand to extinguish.  
P403 + P233 Store in a well-ventilated place. Keep container tightly closed.  
P501 Dispose of contents/container to industrial incineration plant.

**contains:**

Hydrocarbons, C9, aromatics

**Supplemental Hazard information (EU)**

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EUH066 Repeated exposure may cause skin dryness or cracking.

### 2.3. Other hazards

## SECTION 3: Composition / information on ingredients

### 3.2. Mixtures

#### Product description / chemical characterization

#### Description

#### Hazardous ingredients

#### Classification according to Regulation (EC) No 1272/2008 [CLP]

EC No. CAS No. INDEX No.	REACH No. Chemical name classification: // Remark	Wt %
231-175-3 7440-66-6 030-001-01-9	01-2119467174-37 zinc powder - zinc dust (stabilised) Aquatic Acute 1 H400 (M = 1) / Aquatic Chronic 1 H410 (M = 1)	25 - 35
918-668-5 64742-95-6	01-2119455851-35 Hydrocarbons, C9, aromatics Flam. Liq. 3 H226 / STOT SE 3 H335 / Aquatic Chronic 2 H411 / Asp. Tox. 1 H304 / STOT SE 3 H336	20 - 25
215-535-7 1330-20-7 601-022-00-9	01-2119488216-32 xylene, mixtures of isomers Flam. Liq. 3 H226 / Acute Tox. 4 H332 / Acute Tox. 4 H312 / Skin Irrit. 2 H315	8 - 10
231-072-3 7429-90-5 013-002-00-1	01-2119529243-45 aluminium powder (stabilised) Flam. Sol. 1 H228	8 - 10
202-849-4 100-41-4 601-023-00-4	01-2119489370-35 ethylbenzene Acute Tox. 4 H332 / STOT RE 2 H373 / Asp. Tox. 1 H304 / Aquatic Chronic 3 H412 / Flam. Liq. 2 H225	3 - 5
269-662-8 68308-64-5	Quaternary ammonium compounds, cocoalkylethyldimethyl-, ethylsulfates Acute Tox. 4 H302 / Skin Corr. 1B H314 / Aquatic Acute 1 H400	0,5 - 1

#### Additional information

Full text of classification: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness give nothing by mouth, place in recovery position and seek medical advice.

#### In case of inhalation

Remove casualty to fresh air and keep warm and at rest. In case of irregular breathing or respiratory arrest provide artificial respiration.

#### Following skin contact

Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water and soap. Do not use solvents or thinners.

#### After eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

#### After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Seek medical advice immediately. Keep victim calm. Do NOT induce vomiting.

### 4.2. Most important symptoms and effects, both acute and delayed

In all cases of doubt, or when symptoms persist, seek medical advice.

### 4.3. Indication of any immediate medical attention and special treatment needed

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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:**

alcohol resistant foam, carbon dioxide, Powder, spray mist, (water)

**Extinguishing media which must not be used for safety reasons:**

strong water jet

### 5.2. Special hazards arising from the substance or mixture

Dense black smoke occurs during fire. Inhaling hazardous decomposing products can cause serious health damage.

### 5.3. Advice for firefighters

Provide a conveniently located respiratory protective device. Do not allow water used to extinguish fire to enter drains, ground or waterways. Cool closed containers that are near the source of the fire.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Keep away from sources of ignition. Ventilate affected area. Do not breathe vapours.

### 6.2. Environmental precautions

Do not allow to enter into surface water or drains. If the product contaminates lakes, rivers or sewages, inform competent authorities in accordance with local regulations.

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

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13). Clean using cleansing agents. Do not use solvents.

### 6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Advices on safe handling**

Avoid formation of flammable and explosive vapour concentrations in the air and exceeding the exposure limit values. Only use the material in places where open light, fire and other flammable sources can be kept away. Electrical equipment must be protected meeting the accepted standard. Product may become electrostatically charged. Provide earthing of containers, equipment, pumps and ventilation facilities. Anti-static clothing including shoes are recommended. Floors must be electrically conductive. Keep away from heat sources, sparks and open flames. Use only spark proof tools. Avoid contact with skin, eyes and clothes. Do not inhale dusts, particulates and spray mist when using this preparation. Avoid respiration of swarf. When using do not eat, drink or smoke. Personal protection equipment: refer to section 8. Do not empty containers with pressure - no pressure vessel! Always keep in containers that correspond to the material of the original container. Follow the legal protection and safety regulations.

**Precautions against fire and explosion:**

Vapours are heavier than air. Vapours form explosive mixtures with air.

### 7.2. Conditions for safe storage, including any incompatibilities

**Requirements for storage rooms and vessels**

Storage in accordance with the Ordinance on Industrial Safety and Health (BetrSiVO). Keep container tightly closed. Do not empty containers with pressure - no pressure vessel! Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

**Hints on joint storage**

Keep away from strongly acidic and alkaline materials as well as oxidizers.

**Further information on storage conditions**

Take care of instructions on label. Store in a well-ventilated and dry room at temperatures between 5 °C and 30 °C. Protect from heat and direct sunlight. Keep container tightly closed. Remove all sources of ignition. Smoking is forbidden. Access only for authorised persons. Store carefully closed containers upright to prevent any leaks.

### 7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

## SECTION 8: Exposure controls/personal protection

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### 8.1. Control parameters

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#### Occupational exposure limit values

xylene, mixtures of isomers

INDEX No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

WEL, TWA: 220 mg/m<sup>3</sup>; 50 ppm

WEL, STEL: 441 mg/m<sup>3</sup>; 100 ppm

BMGV, TWA: 650 mmol/mol creatinine

Remark: methyl hippuric acid; urine; end of exposure or end of shift

aluminium powder (stabilised)

INDEX No. 013-002-00-1 / EC No. 231-072-3 / CAS No. 7429-90-5

WEL, TWA: 10 mg/m<sup>3</sup>

Remark: (inhalable fraction)

WEL, TWA: 4 mg/m<sup>3</sup>

Remark: (respirable fraction)

ethylbenzene

INDEX No. 601-023-00-4 / EC No. 202-849-4 / CAS No. 100-41-4

WEL, TWA: 441 mg/m<sup>3</sup>; 100 ppm

WEL, STEL: 552 mg/m<sup>3</sup>; 125 ppm

Remark: (May be absorbed through the skin.)

#### Additional information

TWA : long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

#### DNEL:

xylene, mixtures of isomers

INDEX No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

DNEL long-term dermal (systemic), Workers: 180 mg/kg

DNEL acute inhalative (local), Workers: 289 mg/m<sup>3</sup>

DNEL acute inhalative (systemic), Workers: 289 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Workers: 77 mg/m<sup>3</sup>

DNEL long-term oral (repeated), Consumer: 1,6 mg/kg

DNEL long-term dermal (systemic), Consumer: 108 mg/kg

DNEL acute inhalative (local), Consumer: 174 mg/m<sup>3</sup>

DNEL acute inhalative (systemic), Consumer: 174 mg/m<sup>3</sup>

DNEL long-term inhalative (systemic), Consumer: 14,8 mg/m<sup>3</sup>

zinc powder - zinc dust (stabilised)

INDEX No. 030-001-01-9 / EC No. 231-175-3 / CAS No. 7440-66-6

DNEL long-term dermal (systemic), Workers: 83 mg/kg

DNEL long-term inhalative (systemic), Workers: 5 mg/m<sup>3</sup>

DNEL long-term oral (repeated), Consumer: 0,83 mg/kg

DNEL long-term dermal (systemic), Consumer: 83 mg/kg

DNEL acute inhalative (systemic), Consumer:

Hydrocarbons, C9, aromatics

EC No. 918-668-5 / CAS No. 64742-95-6

DNEL long-term dermal (systemic), Workers: 25 mg/kg

DNEL long-term inhalative (systemic), Workers: 150 mg/m<sup>3</sup>

DNEL long-term oral (repeated), Consumer: 11 mg/kg

DNEL acute dermal, short-term (systemic), Consumer: 11 mg/kg

DNEL long-term inhalative (systemic), Consumer: 32 mg/m<sup>3</sup>

#### PNEC:

xylene, mixtures of isomers

INDEX No. 601-022-00-9 / EC No. 215-535-7 / CAS No. 1330-20-7

PNEC aquatic, freshwater: 0,327 mg/l

PNEC aquatic, marine water: 0,327 mg/l

PNEC aquatic, intermittent release: 0,327 mg/l

PNEC sediment, freshwater: 12,46 mg/kg

PNEC sediment, marine water: 12,46 mg/kg

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PNEC, Soil: 2,31 mg/kg  
PNEC sewage treatment plant (STP): 6,58 mg/l  
zinc powder - zinc dust (stabilised)  
INDEX No. 030-001-01-9 / EC No. 231-175-3 / CAS No. 7440-66-6  
PNEC aquatic, freshwater: 0,0206 mg/l  
PNEC aquatic, marine water: 0,0061 mg/l  
PNEC sediment, freshwater: 117,8 mg/kg  
PNEC sediment, marine water: 56,5 mg/kg  
PNEC, Soil: 35,6 mg/kg  
PNEC sewage treatment plant (STP): 0,052 mg/l

## 8.2. Exposure controls

Provide good ventilation. This can be achieved with local or room suction. If this should not be sufficient to keep aerosol and solvent vapour concentration below the exposure limit values, a suitable respiratory protection must be used.

### Occupational exposure controls

#### **Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. Use only respiratory protection equipment with CE-symbol including four digit test number. Observe the wear-time limits as specified by the manufacturer. Recommended respiratory protection articles : Inadequately ventilated workplaces and spraying procedures are necessary. Fresh air mask or short-time work combination filter A2-P2 are recommended.

#### **Hand protection**

For prolonged or repeated handling the following glove material must be used: NBR (Nitrile rubber)  
Thickness of the glove material > 0,4 mm ; Breakthrough time (maximum wearing time) > 480 min.  
Observe the instructions and details for use, storage, maintenance and replacement provided by the protective glove manufacturer. Penetration time of glove material depending on intensity and duration of exposure to skin. Recommended glove articles DIN EN 374  
Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

#### **Eye protection**

Wear closely fitting protective glasses in case of splashes.

#### **Protective clothing**

Wear antistatic clothing of natural fibers (cotton) or heat resistant synthetic fibers.

#### **Protective measures**

After contact clean skin thoroughly with water and soap or use appropriate cleanser.

#### **Environmental exposure controls**

Do not allow to enter into surface water or drains. See chapter 7. No additional measures necessary.

## **SECTION 9: Physical and chemical properties**

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

#### **Appearance:**

**Physical state:** liquid  
**Appearance:** liquid  
**Colour:** silver

**Odour:** by solvent

**Odour threshold:** No data available

**pH at 20 °C:** no information

**Melting point/freezing point:** 420 °C  
Source: zinc powder - zinc dust (stabilised)

**Initial boiling point and boiling range:** 124 °C  
Source: xylene, mixtures of isomers

**Flash point:** 36 °C  
Method: EN ISO 1523

**Evaporation rate:** No data available

**Flammability (solid, gas):**  
**burning time (s):** No data available

**Upper/lower flammability or explosive limits:**

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<b>Lower explosion limit:</b>	<b>1 Vol-%</b> Method: literature value Source: xylene, mixtures of isomers
<b>Upper explosion limit:</b>	<b>7,5 Vol-%</b> Method: literature value Source: xylene, mixtures of isomers
<b>Vapour pressure at 20 °C:</b>	<b>14 mbar</b> Source: xylene, mixtures of isomers
<b>Vapour density:</b>	<b>No data available</b>
<b>Relative density:</b>	
<b>Density at 20 °C:</b>	<b>1,15 g/cm<sup>3</sup></b> Method: DIN 53217
<b>Solubility(ies):</b>	
<b>Water solubility (g/L) at 20 °C:</b>	<b>insoluble</b>
<b>Partition coefficient: n-octanol/water:</b>	<b>see section 12</b>
<b>Auto-ignition temperature:</b>	<b>420 °C</b> Source: xylene, mixtures of isomers
<b>Decomposition temperature:</b>	<b>No data available</b>
<b>Viscosity at 23 °C:</b>	<b>70 s 4 mm</b> Method: DIN 53211
<b>Kinematic viscosity at 20 °C:</b>	<b>&gt; 20,5 mm<sup>2</sup>/s</b>
<b>Explosive properties:</b>	<b>No data available</b>
<b>Oxidising properties:</b>	<b>No data available</b>
9.2. <b>Other information</b>	
<b>Solid content (%):</b>	<b>63 Wt %</b>
<b>solvent content:</b>	
<b>Organic solvents:</b>	<b>37 Wt %</b>
<b>Water:</b>	<b>0 Wt %</b>

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

### 10.2. Chemical stability

Stable when applying the recommended regulations for storage and handling. Further information on correct storage: refer to chapter 7.

### 10.3. Possibility of hazardous reactions

Keep away from strong acids, strong bases and strong oxidizing agents to avoid exothermic reactions.

### 10.4. Conditions to avoid

Hazardous decomposition byproducts may form with exposure to high temperatures.

### 10.5. Incompatible materials

### 10.6. Hazardous decomposition products

Hazardous decomposition byproducts may form with exposure to high temperatures, e.g.: carbon dioxide, carbon monoxide, smoke, nitrogen oxides.

## SECTION 11: Toxicological information

Classification according to Regulation (EC) No 1272/2008 [CLP]

No data on preparation itself available.

### 11.1. Information on toxicological effects

#### Acute toxicity

xylene, mixtures of isomers

oral, LD50, Rat: 3523 mg/kg

dermal, LD50, Rat: 12126 mg/kg

inhalative (vapours), LC50, Rat: 6700 mg/l (4 h)

zinc powder - zinc dust (stabilised)

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oral, LD50, Rat: > 2000 mg/kg  
inhalative (dust and mist), LC50, Rat: 5,41 mg/l (4 h)

Hydrocarbons, C9, aromatics

oral, LD50, Rat: 3592 mg/kg

Method: OECD 401

dermal, LD50, Rabbit: > 3160 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: > 6193 mg/l (4 h)

Method: OECD 403

aluminium powder (stabilised)

inhalative (dust and mist), LC50, Rat: > 5 mg/l (4 h)

**skin corrosion/irritation; Serious eye damage/eye irritation**

Toxicological data are not available.

**Respiratory or skin sensitisation**

Toxicological data are not available.

**Specific target organ toxicity**

Toxicological data are not available.

**Aspiration hazard**

Toxicological data are not available.

**Practical experience/human evidence**

Other observations:

Inhaling of solvent components above the MWC-value can lead to health damage, e.g. irritation of the mucous membrane and respiratory organs, as well as damage to the liver, kidneys and the central nerve system. Indications for this are: headache, dizziness, fatigue, amyosthenia, drowsiness, in serious cases: unconsciousness. Solvents may cause some of the aforementioned effects through skin resorption. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and/or absorption through skin. Splashing may cause eye irritation and reversible damage.

**Overall Assessment on CMR properties**

The ingredients in this mixture do not meet the criteria for classification as CMR category 1A or 1B according to CLP.

**Remark**

There is no information available on the preparation itself .

**SECTION 12: Ecological information**

**overall evaluation**

Classification according to Regulation (EC) No 1272/2008 [CLP]

There is no information available on the preparation itself .

Do not allow to enter into surface water or drains.

**12.1. Toxicity**

xylene, mixtures of isomers

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 2,6 mg/l (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 1 mg/l (48 h)

Algae toxicity, EbC50:: 2,2 (72 h)

Bacteria toxicity, IC50:: 96 mg/l (24 h)

zinc powder - zinc dust (stabilised)

Fish toxicity, LC50: (96 h)

Hydrocarbons, C9, aromatics

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 9,2 mg/l (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): 3,2 mg/l (48 h)

Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 2,6 mg/l (72 h)

**Long-term Ecotoxicity**

zinc powder - zinc dust (stabilised)

Fish toxicity, LC50: > 0 mg/l (96 h)

**12.2. Persistence and degradability**

Toxicological data are not available.

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**12.3. Bioaccumulative potential**

Toxicological data are not available.

**12.4. Mobility in soil**

Toxicological data are not available.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects**

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product Recommendation**

Do not allow to enter into surface water or drains. This material and its container must be disposed of in a safe way. Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

**List of proposed waste codes/waste designations in accordance with EWC**

080111 waste paint and varnish containing organic solvents or other dangerous substances

**packaging**

**Recommendation**

Non-contaminated packages may be recycled. Vessels not properly emptied are special waste.

**SECTION 14: Transport information**

**14.1. UN number**

UN 1263

**14.2. UN proper shipping name**

Land transport (ADR/RID): Paint  
Sea transport (IMDG): PAINT  
Air transport (ICAO-TI / IATA-DGR): Paint

**14.3. Transport hazard class(es)**

3

**14.4. Packing group**

III

**14.5. Environmental hazards**

Land transport (ADR/RID) UMWELTGEFÄHRDEND  
Marine pollutant p / Zinkpulver - Zinkstaub (stabilisiert)

**14.6. Special precautions for user**

Transport always in closed, upright and safe containers. Make sure that persons transporting the product know what to do in case of an accident or leakage.

Advices on safe handling: see parts 6 - 8

**Further information**

**Land transport (ADR/RID)**

tunnel restriction code D/E

**Sea transport (IMDG)**

EmS-No. F-E, S-E

**Air transport (ICAO-TI / IATA-DGR)**

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

not applicable

**SECTION 15: Regulatory information**

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

**EU legislation**



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**Directive 2004/42/EC on the limitation of emissions of volatile organic compounds**

VOC product category: (Cat. A/i) ; VOC limit value: 500 g/l  
 Maximum VOC content (g/L) of the product in a ready to use condition: 500

**National regulations**

**Restrictions of occupation**

Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.  
 Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

15.2. **Chemical Safety Assessment**

**For the following substances of this preparation a chemical safety assessment has been carried out:**

EC No. CAS No.	Chemical name	REACH No.
231-175-3 7440-66-6	zinc powder - zinc dust (stabilised)	01-2119467174-37
918-668-5 64742-95-6	Hydrocarbons, C9, aromatics	01-2119455851-35
215-535-7 1330-20-7	xylene, mixtures of isomers	01-2119488216-32
202-849-4 100-41-4	ethylbenzene	01-2119489370-35

**SECTION 16: Other information**

**Full text of classification in section 3:**

Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
STOT SE 3 / H336	Specific target organ toxicity (single exposure)	May cause drowsiness or dizziness.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Flam. Sol. 1 / H228	flammable solids	Flammable solid.
STOT RE 2 / H373	Specific target organ toxicity (repeated exposure)	May cause damage to organs (or state all organs affected, if known) through prolonged or repeated exposure (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Skin Corr. 1B / H314	skin corrosion/irritation	Causes severe skin burns and eye damage.

**Abbreviations and acronyms**

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
WEL	occupational exposure limit value
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CLP	Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures
CMR	Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction
DIN	German institute for standardization /German industry standard
DNEL	Derived No-Effect Level (REACH)
EINECS	European Inventory of Existing Commercial Chemical Substances
IATA	International Air Transport Association
IMDG Code	International maritime code for danergerous goods
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent

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OECD	Organization for Economic Cooperation and Development
PBT	Persistent, bioaccumulative and toxic substances
PNEC	Predicted No-Effect Concentration (REACH)
REACH	Registration , Evaluation , Authorisation and Restriction of CHemicals
RID	Regulation on the international carriage of dangerous goods by rail
TRBS	Technical rules Operational safety
VOC	Volatile organic compounds
vPvB	very persistent, very bioaccumulative

**Data sources:**

Data arise from reference works and literature.

**Further information**

Classification according to Regulation (EC) No 1272/2008 [CLP]:

Classification procedure:

Physical hazards: On basis of test data.

Health and environmental hazards: Calculation method.

The information supplied on this safety data sheet complies with our current level of knowledge as well as with national and EU regulations. Without written approval, the product must not be used for purposes different from those mentioned in chapter 1. It is always the user's duty to take any necessary measures for meeting the requirements laid down by local rules and regulations. The details in this safety data sheet describe the safety requirements of our product and are not to be regarded as guaranteed attributes of the product.

\* Data changed compared with the previous version