

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

JANSEN

Article No.: 40-810
Print date: 20.10.2021
Version: 9.71

Zinkstaub-Spray
Revision date: 20.05.2021
Issue date: 20.05.2021

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

1.1. Product identifier

Article No. (manufacturer/supplier): 40-810
Trade name/designation: Zinkstaub-Spray
dunkelgrau
matt

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

Relevant identified uses:

Varnish / paint

Uses advised against:

Aware of any other information

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
Hochstadenstraße 22
D-53474 Bad Neuenahr-Ahrweiler
Telephone: +49 2641 3897-0
Telefax: +49 2641 3897-28
Homepage: www.jansen.de

Department responsible for information:

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

1.4. Emergency telephone number

Emergency telephone number +49 2641 3897-51
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].

Aerosol 1 / H222	Aerosol	Extremely flammable aerosol.
Aerosol 1 / H229	Aerosol	Pressurised container: May burst if heated.
STOT RE 2 / H373	STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
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



Danger

Hazard statements

H222 Extremely flammable aerosol.
H229 Pressurised container: May burst if heated.
H373 May cause damage to organs through prolonged or repeated exposure.
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 reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.

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P260 Do not breathe aerosol.
 P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
 P501 Dispose of contents/container to industrial incineration plant.

Hazard components for labelling

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Supplemental hazard information

EUH208 Contains Fatty acids, tall-oil, reaction products with dieethylenetriamine compounds, with polyethylene glycol hydrogen maleate C9-C11-alkyl ether. May produce an allergic reaction.

2.3. Other hazards

Without adequate ventilation, explosive atmosphere/gas mix may be created.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description Zinc dust spray

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

EC No. CAS No. Index No.	REACH No. Designation classification: // Remark	weight-%
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)	35 - 50
200-827-9 74-98-6 601-003-00-5	01-2119486944-21 propane Flam. Gas 1 H220 / compressed gas H280	15 - 20
203-448-7 106-97-8 601-004-00-0	01-2119474691-32 butane Flam. Gas 1 H220 / compressed gas H280	15 - 20
215-535-7 1330-20-7 601-022-00-9	01-2119488216-32 Xylene Acute Tox. 4 H312 / Acute Tox. 4 H332 / Skin Irrit. 2 H315 / Eye Irrit. 2 H319 / STOT SE 3 H335 / STOT RE 2 H373 / Asp. Tox. 1 H304 / Flam. Liq. 3 H226	8 - 10
265-199-0 64742-95-6 649-356-00-4	01-2119486773-24 hydrocarbons, C9, aromatics Flam. Liq. 3 H226 / STOT SE 3 H335 / Aquatic Chronic 2 H411 / Asp. Tox. 1 H304 / STOT SE 3 H336	3 - 5
215-222-5 1314-13-2 030-013-00-7	01-2119463881-32 zinc oxide Aquatic Acute 1 H400 (M = 1) / Aquatic Chronic 1 H410 (M = 1)	3 - 5
200-662-2 67-64-1 606-001-00-8	01-2119471330-49 Acetone Flam. Liq. 2 H225 / Eye Irrit. 2 H319 / STOT SE 3 H336	1,5 - 2
919-446-0 64742-82-1	01-2119458049-33 Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) STOT SE 3 H336 / STOT RE 1 H372 / Asp. Tox. 1 H304 / Aquatic Chronic 2 H411 / Flam. Liq. 3 H226	1,5 - 2
1268617-32-8	Fatty acids, tall-oil, reaction products with dieethylenetriamine compounds, with polyethylene glycol hydrogen maleate C9-C11-alkyl ether Skin Sens. 1 H317 / Aquatic Acute 1 H400	0,5 - 1
263-160-2 61790-69-0	01-2119411392-51 Fattyacids, talloil, reaction products with diethylenetriamine Acute Tox. 4 H302 / Skin Corr. 1B H314 / STOT RE 2 H373 / Aquatic Acute 1 H400 / Aquatic Chronic 1 H410	0,2 - 0,25

Additional information

Full text of classification: see section 16

SECTION 4: First aid measures

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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.

Following 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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

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 section 7 and 8).

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advices on safe handling

Protect from heat and direct sunlight. Ensure good ventilation / exhaustion at the workplace. Observe the exposure limits. Use only in well-ventilated areas. Ensure good interior ventilation, especially at floor level (vapors are heavier than air).

Further information

Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking. Container under pressure. Protect from direct exposure to sunlight and temperatures exceeding 50 °C. Do not open with force, even

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when empty.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in a cool dry place. Observe official regulations on storing packagings with pressurized containers observed.

Hints on joint storage

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

Further information on storage conditions

Protect from heat and direct sunlight. Take care of instructions on label.

7.3. Specific end use(s)

Observe technical data sheet. Observe instructions for use.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limit values

butane

Index No. 601-004-00-0 / EC No. 203-448-7 / CAS No. 106-97-8

WEL, TWA: 1450 mg/m³; 600 ppm

WEL, STEL: 1810 mg/m³; 750 ppm

Xylene

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

WEL, TWA: 220 mg/m³; 50 ppm

WEL, STEL: 441 mg/m³; 100 ppm

Remark: (may be absorbed through the skin)

BMGV, TWA: 650 mmol/mol creatinine

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

hydrocarbons, C9, aromatics

Index No. 649-356-00-4 / EC No. 265-199-0 / CAS No. 64742-95-6

WEL, TWA: 500 mg/m³

Remark: (Aromatics)

Acetone

Index No. 606-001-00-8 / EC No. 200-662-2 / CAS No. 67-64-1

WEL, TWA: 1210 mg/m³; 500 ppm

WEL, STEL: 3620 mg/m³; 1500 ppm

Additional information

TWA : Long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

Ceiling : peak limitation

DNEL:

Acetone

Index No. 606-001-00-8 / EC No. 200-662-2 / CAS No. 67-64-1

DNEL long-term dermal (systemic), Workers: 186 mg/kg

DNEL acute inhalative (local), Workers: 2420 mg/m³

DNEL acute inhalative (systemic), Workers: 1210 mg/m³

DNEL long-term inhalative (systemic), Workers: 1210 mg/m³

DNEL long-term oral (repeated), Consumer: 62 mg/kg

DNEL long-term dermal (systemic), Consumer: 62 mg/kg

DNEL long-term inhalative (systemic), Consumer: 200 mg/m³

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/m³

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

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

DNEL long-term inhalative (systemic), Consumer: 2,5 mg/m³

zinc oxide

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Index No. 030-013-00-7 / EC No. 215-222-5 / CAS No. 1314-13-2

DNEL long-term dermal (systemic), Workers: 83 mg/kg
DNEL long-term inhalative (local), Workers: 0,5 mg/m³
DNEL long-term inhalative (systemic), Workers: 5 mg/m³
DNEL long-term oral (repeated), Consumer: 0,83 mg/kg
DNEL long-term dermal (systemic), Consumer: 83 mg/kg
DNEL long-term inhalative (systemic), Consumer: 2,5 mg/m³

Xylene

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/m³
DNEL acute inhalative (systemic), Workers: 289 mg/m³
DNEL long-term inhalative (systemic), Workers: 77 mg/m³
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/m³
DNEL acute inhalative (systemic), Consumer: 174 mg/m³
DNEL long-term inhalative (systemic), Consumer: 14,8 mg/m³

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

EC No. 919-446-0 / CAS No. 64742-82-1

DNEL long-term dermal (systemic), Workers: 44 mg/kg
DNEL acute inhalative (local), Workers: 570 mg/m³
DNEL long-term inhalative (systemic), Workers: 330 mg/m³
DNEL long-term oral (repeated), Consumer: 26 mg/kg
DNEL long-term dermal (systemic), Consumer: 26 mg/kg
DNEL acute inhalative (local), Consumer: 570 mg/m³
DNEL long-term inhalative (systemic), Consumer: 71 mg/m³

hydrocarbons, C9, aromatics

Index No. 649-356-00-4 / EC No. 265-199-0 / CAS No. 64742-95-6

DNEL long-term oral (repeated), Consumer: 11 mg/kg
DNEL long-term dermal (systemic), Consumer: 11 mg/kg
DNEL long-term inhalative (systemic), Consumer: 32 mg/m³

PNEC:

Acetone

Index No. 606-001-00-8 / EC No. 200-662-2 / CAS No. 67-64-1

PNEC aquatic, freshwater: 10,6 mg/L
PNEC aquatic, marine water: 1,06 mg/L
PNEC aquatic, intermittent release: 21 mg/L
PNEC sediment, freshwater: 30,4 mg/kg
PNEC sediment, marine water: 3,04 mg/kg
PNEC, soil: 29,5 mg/kg
PNEC sewage treatment plant (STP): 100 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: 0,061 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

zinc oxide

Index No. 030-013-00-7 / EC No. 215-222-5 / CAS No. 1314-13-2

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): 0,1 mg/L

Xylene

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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
PNEC, soil: 2,31 mg/kg
PNEC sewage treatment plant (STP): 6,58 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.

Personal protection equipment

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: > 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 EN ISO 374

Barrier creams can help protecting exposed skin areas. In no case should they be used after contact.

Eye/face protection

Wear closely fitting protective glasses in case of splashes.

Body protection

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 section 7. No additional measures necessary.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Physical state: gaseous

Colour: grey

Odour: characteristic

Odour threshold: No data available

pH at 20 °C: No data available

Melting point/freezing point: -95 °C

Initial boiling point and boiling range: -42 °C

Flash point: -97 °C

Method: EN ISO 1523

Evaporation rate: 2,0 mg/s

Source: Acetone

flammability

Burning time: No data available

Upper/lower flammability or explosive limits:

Lower explosion limit: 1,1 Vol-%

Method: literature value

Source: Xylene

Upper explosion limit: 10,8 Vol-%

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	Method: literature value
	Source: propane
Vapour pressure at 20 °C:	No data available
Vapour density:	No data available
Relative density:	
Density at 20 °C:	No data available
Solubility(ies):	
Water solubility at 20 °C:	insoluble
Partition coefficient: n-octanol/water:	see section 12
Ignition temperature in °C:	No data available
Decomposition temperature:	No data available
Viscosity at °C:	nicht anwendbar
Explosive properties:	No data available
Oxidising properties:	No data available

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

No information available.

10.2. Chemical stability

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

not applicable

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

Acetone

oral, LD50, Rat: 5800 mg/kg

Method: OECD 401

dermal, LD50, Rat: > 15800 mg/kg

inhalative (vapours), LC50, Rat: 76 mg/L (4 h)

Zinc powder - zinc dust (stabilised)

oral, LD50, Rat: > 2000 mg/kg

inhalative (dust and mist), LC50, Rat: 5,41 mg/L (4 h)

zinc oxide

oral, LD50, Rat: > 15000 mg/kg

Xylene

oral, LD50, Rat: 4300 mg/kg

dermal, LD50, Rabbit: 1170 mg/kg

inhalative (vapours), LC50, Rat: 10 - 20 mg/L (4 h)

hydrocarbons, C9, aromatics

oral, LD50, Rat: > 4300 mg/kg

dermal, LD50, Rabbit: > 1700 mg/kg

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inhalative (vapours), LC50, Rat: > 21,7 mg/L (4 h)

Skin corrosion/irritation; Serious eye damage/eye irritation

Acetone

Skin (4 h)

eyes, Rabbit.

Method: OECD 405

Irritating to eyes.

Xylene

Skin

Irritant - skin irritation and eye damage

eyes

mildly irritating

Respiratory or skin sensitisation

Based on available data, the classification criteria are not met.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Based on available data, the classification criteria are not met.

STOT-single exposure; STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Acetone

Specific target organ toxicity (single exposure)

Specific target organ toxicity (single exposure), drowsiness

Xylene

Specific target organ toxicity (single exposure), Irritation

Irritation to respiratory tract

Aspiration hazard

Xylene

Aspiration hazard

Practical experience/human evidence

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

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

Very toxic to aquatic organisms.

Acetone

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 5540 mg/L (96 h)

Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 100 mg/L (48 h)

Algae toxicity, ErC50, Selenastrum capricornutum: 7500 mg/L (96 h)

zinc oxide

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 0,169 mg/L (96 h)

Daphnia toxicity, EC50: 0,413 mg/L (48 h)

Algae toxicity, IC50:: 0,136 mg/L (72 h)

Xylene

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Fish toxicity, LC50, Leuciscus idus (golden orfe): 86 mg/L (96 h)
Algae toxicity, LC50, Selenastrum capricornutum 2 - 8 mg/L (72 h)
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout) 10 - 30 mg/L (96 h)
Method: OECD 203
Daphnia toxicity, EC50, Daphnia magna (Big water flea) 10 - 22 mg/L (48 h)
Method: OECD 202
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 4,1 mg/L (72 h)
Method: OECD 201
hydrocarbons, C9, aromatics
Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): 9,2 mg/L (96 h)
Daphnia toxicity, EC50, Daphnia magna: 44 mg/L (48 h)
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 2,9 mg/L

Long-term Ecotoxicity

Very toxic to aquatic life with long lasting effects.

Acetone

Daphnia toxicity, NOEC: 2212 mg/L (28 d)

Xylene

Fish toxicity, NOEC, Oncorhynchus mykiss (Rainbow trout): > 1,3 mg/L (56 d)

Daphnia toxicity, NOEC, Daphnia sp.: 0,96 mg/L (7 d)

12.2. Persistence and degradability

Acetone

Biodegradation, Degree of elimination:: 91 % (28 d); Evaluation Readily biodegradable (according to OECD criteria)

Method: OECD 301B / ISO 9439 / EEC 92/69 annex V, C.4-C

Xylene

Biodegradation: 87,8 % (28 d); Evaluation Readily biodegradable (according to OECD criteria)

Method: OECD 301F

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Biodegradation: Evaluation Readily biodegradable (according to OECD criteria)

Method: OECD 301F

12.3. Bioaccumulative potential

Acetone

Partition coefficient n-octanol /water (log P O/W):: -0,24

Xylene

Partition coefficient: n-octanol/water: 2,77 - 3,15

Bioconcentration factor (BCF)

Acetone

Bioconcentration factor (BCF): 3

Xylene

Bioconcentration factor (BCF), Oncorhynchus mykiss (Rainbow trout): 25,9

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

No information available.

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

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160504* Gases in pressure containers (including halons) containing hazardous substances
150110* packaging containing residues of or contaminated by dangerous substances
*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Appropriate disposal / Package Recommendation

Disposal according to official regulations

SECTION 14: Transport information

14.1. UN number

UN 1950

14.2. UN proper shipping name

Land transport (ADR/RID): Aerosols, flammable
Sea transport (IMDG): AEROSOLS
Air transport (ICAO-TI / IATA-DGR): Aerosols, flammable

14.3. Transport hazard class(es)

2.1

14.4. Packing group

No data available

14.5. Environmental hazards

Land transport (ADR/RID) UMWELTGEFÄHRDEND
Marine pollutant p

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

Sea transport (IMDG)

EmS-No. F-D, S-U

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

Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]

Category: P3a FLAMMABLE AEROSOLS

Quantity 1: 150 t / Quantity 2: 500 t

Category: E1 Hazardous to the aquatic environment in Category Acute 1 or Chronic 1

Quantity 1: 100 t / Quantity 2: 200 t

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 mixture a chemical safety assessment has been carried out:

EC No. CAS No.	Designation	REACH No.
231-175-3 7440-66-6	Zinc powder - zinc dust (stabilised)	01-2119467174-37
200-827-9 74-98-6	propane	01-2119486944-21

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



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203-448-7 106-97-8	butane	01-2119474691-32
215-535-7 1330-20-7	Xylene	01-2119488216-32
265-199-0 64742-95-6	hydrocarbons, C9, aromatics	01-2119486773-24
215-222-5 1314-13-2	zinc oxide	01-2119463881-32
200-662-2 67-64-1	Acetone	01-2119471330-49
919-446-0 64742-82-1	Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	01-2119458049-33
263-160-2 61790-69-0	Fattyacids, talloil, reaction products with diethylenetriamine	01-2119411392-51

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. Gas 1 / H220	flammable gases	Extremely flammable gas.
compressed gas / H280	Gases under pressure	Contains gas under pressure; may explode if heated.
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Acute Tox. 4 / H332	Acute toxicity (inhalative)	Harmful if inhaled.
Skin Irrit. 2 / H315	Skin corrosion/irritation	Causes skin irritation.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
STOT SE 3 / H335	STOT-single exposure	May cause respiratory irritation.
STOT RE 2 / H373	STOT-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).
Asp. Tox. 1 / H304	Aspiration hazard	May be fatal if swallowed and enters airways.
Flam. Liq. 3 / H226	Flammable liquids	Flammable liquid and vapour.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
STOT SE 3 / H336	STOT-single exposure	May cause drowsiness or dizziness.
Flam. Liq. 2 / H225	Flammable liquids	Highly flammable liquid and vapour.
STOT RE 1 / H372	STOT-repeated exposure	Causes 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).
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Skin Corr. 1B / H314	Skin corrosion/irritation	Causes severe skin burns and eye damage.

Classification procedure

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Aerosol 1	Aerosol	On basis of test data.
Aerosol 1	Aerosol	On basis of test data.
STOT RE 2	STOT-repeated exposure	Calculation method.
Aquatic Acute 1	Hazardous to the aquatic environment	Calculation method.
Aquatic Chronic 1	Hazardous to the aquatic environment	Calculation method.

Abbreviations and acronyms

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
OEL	Occupational Exposure Limit Value
BLV	Biological Limit Value
CAS	Chemical Abstracts Service
CLP	Classification, Labelling and Packaging
CMR	Carcinogenic, Mutagenic and Reprotoxic

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DIN	German Institute for Standardization / German industrial standard
DNEL	Derived No-Effect Level
EAKV	European Waste Catalogue Directive
EC	Effective Concentration
EC	European Community
EN	European Standard
IATA-DGR	International Air Transport Association – Dangerous Goods Regulations
IBC Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization Technical Instructions for the Safe Transport of Dangerous Goods by Air
IMDG Code	International Maritime Code for Dangerous Goods
ISO	International Organization for Standardization
LC	Lethal Concentration
LD	Lethal Dose
MARPOL	Maritime Pollution: The International Convention for the Prevention of Pollution from Ships
OECD	Organisation for Economic Cooperation and Development
PBT	persistent, bioaccumulative, toxic
PNEC	Predicted No Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
UN	United Nations
VOC	Volatile Organic Compounds
vPvB	very persistent and very bioaccumulative

Data sources:

Data arise from reference works and literature.

Further information

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 section 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