

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

JANSEN

Article No.: 31-300
Print date 07.05.2020
Version 77.61

Uni-Siegel
Revision date 27.04.2020
Issue date 27.04.2020

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

1.1. Product identifier

Article No. (manufacturer/supplier): 31-300
Trade name/designation Uni-Siegel
farblos
tuffmatt

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
Maler-Spezialprodukte Telephone: +49 2641 3897-0
Hochstadenstraße 22 Telefax: +49 2641 3897-28
D-53474 Bad Neuenahr-Ahrweiler 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].

Flam. Liq. 3 / H226 Flammable liquids Flammable liquid and vapour.
STOT SE 3 / H336 STOT-single exposure May cause drowsiness or dizziness.

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.
H336 May cause drowsiness or dizziness.

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.
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.

Hazard components for labelling

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2 % aromatics

Supplemental hazard information

EUH066 Repeated exposure may cause skin dryness or cracking.
EUH208 Contains Phthalic anhydride; Fatty acids, C18, unsatd., dimers, reaction products with

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N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine. May produce an allergic reaction.

2.3. Other hazards

No information available.

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Description Urethanisierter Alkydharzlack

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

| EC No. CAS No. INDEX No. | REACH No. Designation classification: // Remark | Wt % |
|--------------------------------------|---|------------|
| 919-857-5 | 01-2119463258-33 Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2 % aromatics Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H336 | 25 - 35 |
| 918-481-9 | 01-2119457273-39 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics Asp. Tox. 1 H304 | 15 - 20 |
| 245-018-1 22464-99-9 | 01-2119979088-21 2-Ethylhexanacid, Zirconiumsalt Repr. 2 H361d | 0,3 - 0,5 |
| 201-607-5 85-44-9 607-009-00-4 | 01-2119457017-41 Phthalic anhydride Acute Tox. 4 H302 / STOT SE 3 H335 / Skin Irrit. 2 H315 / Eye Dam. 1 H318 / Resp. Sens. 1 H334 / Skin Sens. 1 H317 | 0,3 - 0,5 |
| 605-296-0 162627-17-0 | 01-2119970640-38 Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine Skin Sens. 1A H317 | 0,05 - 0,1 |

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

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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

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.

Further information

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

8.1. **Control parameters**

Occupational exposure limit values

Silicon dioxide

EC No. 231-545-4 / CAS No. 7631-86-9

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WEL, TWA: 2,4 mg/m³
Remark: (Silica, amorphous; respirable fraction)

WEL, TWA: 6 mg/m³
Remark: (Silica, amorphous; inhalable fraction)

Phthalic anhydride
INDEX No. 607-009-00-4 / EC No. 201-607-5 / CAS No. 85-44-9

WEL, TWA: 4 mg/m³
WEL, STEL: 12 mg/m³

Additional information

TWA : long-term occupational exposure limit value
STEL : short-term occupational exposure limit value
Ceiling : peak limitation

DNEL:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics
EC No. 918-481-9

DNEL long-term dermal (systemic), Workers: 300 mg/kg
DNEL long-term oral (repeated), Consumer: 300 mg/kg
DNEL long-term dermal (systemic), Consumer: 300 mg/kg
DNEL long-term inhalative (systemic), Consumer: 900 mg/m³

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2 % aromatics
EC No. 919-857-5

DNEL long-term dermal (systemic), Workers: 208 mg/kg
DNEL long-term inhalative (systemic), Workers: 871 mg/m³
DNEL long-term oral (repeated), Consumer: 125 mg/kg
DNEL long-term dermal (systemic), Consumer: 125 mg/kg
DNEL long-term inhalative (systemic), Consumer: 185 mg/m³

Silicon dioxide
EC No. 231-545-4 / CAS No. 7631-86-9

DNEL acute inhalative (local), Workers: 4 mg/m³
DNEL long-term inhalative (systemic), Workers: 4 mg/m³

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 (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 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.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:

Physical state: Liquid
Appearance: Liquid
Colour: refer to label

Odour: characteristic

Odour threshold: No data available

pH at 20 °C: no information

Melting point/freezing point: < -20 °C
Source: Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2 % aromatics

Initial boiling point and boiling range: 119 °C
Source: 1-methoxy-2-propanol

Flash point: 40 °C
Method: EN ISO 1523

Evaporation rate: No data available

flammability

Burning time (s): No data available

Upper/lower flammability or explosive limits:

Lower explosion limit: 0,6 Vol-%
Method: literature value
Source: Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics

Upper explosion limit: 7 Vol-%
Method: literature value
Source: Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics

Vapour pressure at 20 °C: not checked

Vapour density: No data available

Relative density:

Density at 20 °C: 0,91 g/cm³
Method: DIN 53217

Solubility(ies):

Water solubility (g/L) at 20 °C: insoluble

Partition coefficient: n-octanol/water: see section 12

Auto-ignition temperature: 231 °C
Source: Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics

Decomposition temperature: No data available

Viscosity at 23 °C: 120 s 4 mm
Method: DIN 53211

Kinematic viscosity at 20 °C:: > 20,5 mm²/s

Explosive properties: No data available

Oxidising properties: No data available

9.2. Other information

Solid content (%): 49 Wt %

solvent content:

Organic solvents: 51 Wt %

Water: 0 Wt %

Solvent separation test (%): < 3 Wt % (ADR/RID)

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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

Phthalic anhydride

oral, LD50, Rat: > 1530 mg/kg

2-Ethylhexanacid, Zirconiumsalt

oral, LD50, Rat: > 5000 mg/kg

dermal, LD50, Rabbit: > 5000 mg/kg

Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine

oral, LD50, Rat: > 10000 mg/kg

Method: OECD 401

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics

oral, LD50, Rat: > 5000 mg/kg

Method: OECD 401

dermal, LD50, Rabbit: > 5000 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: > 4951 mg/l (4 h)

Method: OECD 403

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2 % aromatics

oral, LD50, Rat: > 5000 mg/kg

Method: OECD 401

dermal, LD50, Rabbit: > 5000 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: > 18,5 mg/l (4 h)

Silicon dioxide

oral, LD50, Rat: > 5000 mg/kg

dermal, LD50, Rabbit: > 5000 mg/kg

inhalative (dust and mist), LC50, Rat: > 0,477 mg/l (4 h)

Skin corrosion/irritation; Serious eye damage/eye irritation

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2 % aromatics

eyes

mild irritant.

Respiratory or skin sensitisation

Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine

Skin, Mouse:

Method: OECD 429

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May cause sensitization by skin contact.

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 drowsiness or dizziness.

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2 % aromatics
Specific target organ toxicity (single exposure), drowsiness

Aspiration hazard

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics
Aspiration hazard

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2 % aromatics
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

2-Ethylhexanacid, Zirconiumsalt

Fish toxicity, LC50, *Oryzias latipes*: > 100 mg/l (96 h)

Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine

Fish toxicity, LC50, *Leuciscus idus* (golden orfe): > 150 mg/l (96 h)

Method: DIN 38412

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

Method: OECD 202

Algae toxicity, ErC50, *Pseudokirchneriella subcapitata*: > 100 mg/l (72 h)

Method: OECD 201

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics

Fish toxicity, LC50, *Oncorhynchus mykiss* (Rainbow trout): > 1000 mg/l (96 h)

Method: OECD 203

Daphnia toxicity, EC50, *Daphnia magna*: > 1000 mg/l (48 h)

Method: OECD 202

Algae toxicity, EC50, *Pseudokirchneriella subcapitata*: > 1000 mg/l

Method: OECD 201

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2 % aromatics

Fish toxicity, LC50, *Oncorhynchus mykiss* (Rainbow trout): > 1000 mg/l (96 h)

Method: OECD 203

Daphnia toxicity, EC50, *Daphnia magna*: > 1000 mg/l (48 h)

Method: OECD 202

Algae toxicity, EC50, *Pseudokirchneriella subcapitata*: > 1000 mg/l (72 h)

Method: OECD 201

Silicon dioxide

Fish toxicity, LC50, *Brachydanio rerio* (zebra-fish): > 10000 mg/l (96 h)

Daphnia toxicity, EC50, *Daphnia magna*: > 10000 mg/l (24 h)

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Long-term Ecotoxicity

Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine
Daphnia toxicity, EC50, Daphnia magna (Big water flea): > 100 mg/l (21 d)
Method: OECD 211

12.2. Persistence and degradability

Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine
Biodegradation:
Not readily biodegradable (according to OECD criteria)

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics
Biodegradation: 80 % (28 d); evaluation Readily biodegradable (according to OECD criteria)
Method: OECD 301F

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2 % aromatics
Biodegradation: evaluation Readily biodegradable (according to OECD criteria)

12.3. Bioaccumulative potential

Toxicological data are not available.

Bioconcentration factor (BCF)

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2 % aromatics
Bioconcentration factor (BCF): 10 - 2500

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

080111* Waste paint and varnish containing organic solvents or other dangerous substances

*Hazardous waste according to Directive 2008/98/EC (waste framework directive).

Appropriate disposal / Package 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)

Land transport (ADR/RID): Not goods of class 3
in containers > 450 l Class 3
Sea transport (IMDG) 3
for packages < = 450 litres Transport in accordance with 2.3.2.5 of the IMDG Code.
Air transport (ICAO-TI / IATA-DGR) 3

14.4. Packing group

III

14.5. Environmental hazards

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Land transport (ADR/RID) No data available
 Marine pollutant No data available

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

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: P5c Flammable liquids

Quantity 1: 5000 t / Quantity 2: 50000 t

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 mixture a chemical safety assessment has been carried out:

| EC No. CAS No. | Designation | REACH No. |
|--------------------------|--|------------------|
| 919-857-5 | Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2 % aromatics | 01-2119463258-33 |
| 918-481-9 | Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2 % aromatics | 01-2119457273-39 |
| 245-018-1 22464-99-9 | 2-Ethylhexanoic acid, Zirconium salt | 01-2119979088-21 |
| 201-607-5 85-44-9 | Phthalic anhydride | 01-2119457017-41 |
| 605-296-0 162627-17-0 | Fatty acids, C18, unsatd., dimers, reaction products with N,N-dimethyl-1,3-propanediamine and 1,3-propanediamine | 01-2119970640-38 |

SECTION 16: Other information

Full text of classification in section 3:

| | | |
|----------------------|-----------------------------------|--|
| Flam. Liq. 3 / H226 | Flammable liquids | Flammable liquid and vapour. |
| Asp. Tox. 1 / H304 | Aspiration hazard | May be fatal if swallowed and enters airways. |
| STOT SE 3 / H336 | STOT-single exposure | May cause drowsiness or dizziness. |
| Repr. 2 / H361d | Reproductive toxicity | Suspected of damaging the unborn child. |
| Acute Tox. 4 / H302 | Acute toxicity (oral) | Harmful if swallowed. |
| STOT SE 3 / H335 | STOT-single exposure | May cause respiratory irritation. |
| Skin Irrit. 2 / H315 | Skin corrosion/irritation | Causes skin irritation. |
| Eye Dam. 1 / H318 | Serious eye damage/eye irritation | Causes serious eye damage. |
| Resp. Sens. 1 / H334 | Respiratory or skin sensitisation | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |

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|----------------------|-----------------------------------|--------------------------------------|
| Skin Sens. 1 / H317 | Respiratory or skin sensitisation | May cause an allergic skin reaction. |
| Skin Sens. 1A / H317 | Respiratory or skin sensitisation | May cause an allergic skin reaction. |

Classification procedure

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

| | | |
|--------------|----------------------|------------------------|
| Flam. Liq. 3 | Flammable liquids | On basis of test data. |
| STOT SE 3 | STOT-single exposure | 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 |
| 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.