

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



Article No.: 3200
 Print date: 20.05.2019
 Version: 61

Premium Hardwax-Oil
 Revision date: 14.05.2019
 Issue date: 06.05.2019

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

1.1. **product identifiers**

Article No. (manufacturer/supplier) 3200
 Trade name/designation Premium Hardwax-Oil
 Satin Matt
 colourless

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

Relevant identified uses:

Coating / Varnish

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

manufacturer

Saicos Colour GmbH
 Carl-Zeiss-Str.3
 D-48336 Sassenberg

Telephone: +49 (0) 2583 3037-0
 Telefax: +49 (0) 2583 3037-10

Dept. responsible for information:

E-mail (competent person) info@saicos.de

1.4. **Emergency telephone number**

Giftnotruf Berlin: +49 (0) 30/ 30686 700 Beratung in Deutsch und Englisch

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 not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2. **Label elements**

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

Hazard pictograms

Hazard statements

not applicable

Precautionary statements

not applicable

Hazard components for labelling

not applicable

Supplemental Hazard information (EU)

EUH208 Contains phthalic anhydride; 2-butanone oxime. May produce an allergic reaction.

EUH210 Safety data sheet available on request.

2.3. **Other hazards**

No information available.

SECTION 3: Composition / information on ingredients

3.2. **Mixtures**

Description Oil

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

EC No.	REACH No.	Wt %
CAS No.	Designation	
INDEX No.	classification // Remark	
265-150-3	01-2119457273-39	
64742-48-9	Naphtha (petroleum), hydrotreated heavy; Low boiling point; hydrogen treated	25 - 50
649-327-00-6	naphtha Asp. Tox. 1 H304	
265-150-3	01-2119463258-33	
64742-48-9	Naphtha (petroleum), hydrotreated heavy	12,5 - 20
649-327-00-6	Flam. Liq. 3 H226 / Asp. Tox. 1 H304 / STOT SE 3 H336	

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292-459-0 90622-57-4	01-2119472146-39 Alkanes, C9-12-iso- Asp. Tox. 1 H304 / Flam. Liq. 3 H226	2,5 - 5
202-496-6 96-29-7 616-014-00-0	01-2119539477-28 2-butanone oxime Carc. 2 H351 / Acute Tox. 4 H312 / Eye Dam. 1 H318 / Skin Sens. 1 H317	0,5 - 1
286-272-3 85203-81-2	01-2119979093-30 Zink bis(2-ethylhexanoate) Eye Irrit. 2 H319 / Repr. 2 H361 / Aquatic Chronic 3 H412	< 0,5
245-018-1 22464-99-9	01-2119979088-21 2-ethylhexanoic acid, zirconium salt Repr. 2 H361	< 0,5

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

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. Cool closed containers that are near the source of the fire. Do not allow water used to extinguish fire to enter drains, ground or waterways.

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

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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. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (TRBS 2153)".

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 15 °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:

Naphtha (petroleum), hydrotreated heavy; Low boiling point; hydrogen treated naphtha
INDEX No. 649-327-00-6 / EC No. 265-150-3 / CAS No. 64742-48-9

WEL, TWA: 1200 mg/m³

Remark: (> or = C7, Normal and branched chain alkanes)

WEL, TWA: 800 mg/m³

Remark: (> or = C7, Cycloalkanes)

Naphtha (petroleum), hydrotreated heavy

INDEX No. 649-327-00-6 / EC No. 265-150-3 / CAS No. 64742-48-9

WEL, TWA: 1200 mg/m³

Remark: (> or = C7, Normal and branched chain alkanes)

WEL, TWA: 800 mg/m³

Remark: (> or = C7, Cycloalkanes)

Additional information

TWA : long-term occupational exposure limit value

STEL : short-term occupational exposure limit value

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Ceiling : peak limitation

DNEL:

Zink bis(2-ethylhexanoate)

EC No. 286-272-3 / CAS No. 85203-81-2

- DNEL long-term dermal (systemic), Workers: 6,41 mg/kg
- DNEL long-term inhalative (systemic), Workers: 20,83 mg/m³
- DNEL long-term oral (repeated), Consumer: 3,21 mg/kg
- DNEL long-term dermal (systemic), Consumer: 3,21 mg/kg
- DNEL long-term inhalative (systemic), Consumer: 10,42 mg/m³

Naphtha (petroleum), hydrotreated heavy

INDEX No. 649-327-00-6 / EC No. 265-150-3 / CAS No. 64742-48-9

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

2-ethylhexanoic acid, zirconium salt

EC No. 245-018-1 / CAS No. 22464-99-9

- DNEL long-term dermal (systemic), Workers: 6,49 mg/kg bw/day
- DNEL long-term inhalative (systemic), Workers: 32,97 mg/m³
- DNEL long-term oral (repeated), Consumer: 4,51 mg/kg bw/day
- DNEL long-term dermal (systemic), Consumer: 3,25 mg/kg bw/day
- DNEL long-term inhalative (systemic), Consumer: 8,13 mg/m³

2-butanone oxime

INDEX No. 616-014-00-0 / EC No. 202-496-6 / CAS No. 96-29-7

- DNEL acute dermal, short-term (systemic), Workers: 2,5 mg/kg
- DNEL long-term dermal (systemic), Workers: 1,3 mg/kg
- DNEL long-term inhalative (local), Workers: 3,33 mg/m³
- DNEL long-term inhalative (systemic), Workers: 9 mg/m³
- DNEL acute dermal, short-term (systemic), Consumer: 1,5 mg/kg
- DNEL long-term dermal (systemic), Consumer: 0,78 mg/kg
- DNEL long-term inhalative (local), Consumer: 2 mg/m³
- DNEL long-term inhalative (systemic), Consumer: 2,7 mg/m³

PNEC:

2-ethylhexanoic acid, zirconium salt

EC No. 245-018-1 / CAS No. 22464-99-9

- PNEC aquatic, freshwater: 0,36 mg/l
- PNEC aquatic, marine water: 0,036 mg/l
- PNEC aquatic, intermittent release: 0,493 mg/l
- PNEC sediment, freshwater: 6,37 mg/kg
- PNEC sediment, marine water: 0,637 mg/kg
- PNEC, soil: 1,06 mg/kg
- PNEC sewage treatment plant (STP): 71,7 mg/l

2-butanone oxime

INDEX No. 616-014-00-0 / EC No. 202-496-6 / CAS No. 96-29-7

- PNEC aquatic, freshwater: 0,256 mg/l
- PNEC aquatic, intermittent release: 0,118 mg/l
- PNEC sewage treatment plant (STP): 177 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. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190). Use only respiratory protection equipment with CE-symbol including four digit test number.

Hand protection

For prolonged or repeated handling the following glove material must be used: Butyl caoutchouc (butyl 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

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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: Liquid
Colour: colourless

Odour: characteristic

Odour threshold: not applicable

pH at 20 °C: not applicable

Melting point/freezing point: not applicable

Initial boiling point and boiling range: 149 °C

Source: Naphtha (petroleum), hydrotreated heavy

Flash point: 62 °C

Method: DIN 53213-1 (08/2002: replaced by EN ISO 1523)

Evaporation rate: not applicable

flammability

Burning time (s): not applicable

Upper/lower flammability or explosive limits:

Lower explosion limit: 0,65 Vol-%

Upper explosion limit: 7 Vol-%

Source: Alkanes, C9-12-iso-

Vapour pressure at 20 °C: 53,9111 mbar

Method: calculated.

Vapour density: not applicable

Relative density:

Density at 20 °C: 0,90 g/cm³

Solubility(ies):

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

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

Auto-ignition temperature: 230 °C

Source: Alkanes, C9-12-iso-

Decomposition temperature: not applicable

Viscosity at 20 °C: 90 s 4 mm

Method: DIN 53211

Explosive properties: not applicable

Oxidising properties: not applicable

9.2. Other information

Solid content (%): 50 Wt %

solvent content:

Organic solvents: 49 Wt %

Water: 0 Wt %

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]

11.1. Information on toxicological effects

Acute toxicity

Zink bis(2-ethylhexanoate)

oral, LD50, Rat: > 5000 mg/kg

Method: OECD 401

dermal, LD50, Rat: > 2000 mg/kg

Method: OECD 402

inhalative (dust and mist), LC50, Rat: > 5,7 mg/l (4 h)

Method: OECD 403

Naphtha (petroleum), hydrotreated heavy; Low boiling point; hydrogen treated naphtha

oral, LD50, Rat: > 6000 mg/kg

dermal, LD50, Rabbit: > 5000 mg/kg

inhalative (Gases), LC50, Rat: 15000 ppmV (4 h)

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

Alkanes, C9-12-iso-

oral, LD50, Rat: > 5000 mg/kg

dermal, LD50, Rabbit: > 5000 mg/kg

inhalative (vapours), LC50, Rat: > 12200 mg/l (4 h)

Naphtha (petroleum), hydrotreated heavy

oral, LD50, Rat: > 5000 mg/kg

dermal, LD50, Rabbit: > 5000 mg/kg

2-ethylhexanoic acid, zirconium salt

oral, LD50, Rat: > 5000 mg/kg

Method: OECD 401

2-butanone oxime

oral, LD50, Rat: 2300 - 3700 mg/kg

dermal, LD50, Rat: evaluation No data available

dermal, LD50, Rabbit: > 1000 mg/kg

inhalative (Gases), LC50, Rat: (4 h) evaluation No data available

inhalative (vapours), LC50, Rat: > 4,83 mg/l (4 h)

Skin corrosion/irritation; Serious eye damage/eye irritation

Naphtha (petroleum), hydrotreated heavy

Skin, Rabbit. (4 h)

Method: OECD 404

Not an irritant.

eyes, Rabbit.: evaluation Not an irritant.

Method: OECD 405

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2-butanone oxime
Skin, Rabbit. (4 h)
Method: OECD 405
mild irritant.
eyes, Rabbit.: evaluation Serious eye damage/eye irritation

Respiratory or skin sensitisation

Naphtha (petroleum), hydrotreated heavy
Skin, Guinea pig: ; evaluation not sensitising.
Method: OECD 406

2-butanone oxime
Skin, Guinea pig: ; evaluation Sensitising

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

2-butanone oxime
Germ cell mutagenicity; evaluation No data available
Reproductive toxicity; evaluation No data available

STOT-single exposure; STOT-repeated exposure

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

Aspiration hazard

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

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.

SECTION 12: Ecological information

Classification according to Regulation (EC) No 1272/2008 [CLP]
Do not allow to enter into surface water or drains.

12.1. Toxicity

Zink bis(2-ethylhexanoate)

Fish toxicity, LC50, Cyprinus carpio (Common Carp): 100 mg/l (96 h)
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: 2,72 mg/l (72 h)

Naphtha (petroleum), hydrotreated heavy; Low boiling point; hydrogen treated naphtha

Fish toxicity, LC50, Pimephales promelas (fathead minnow): > 1000 mg/l (96 h)
Daphnia toxicity, EC50, Daphnia magna: > 1000 mg/l (48 h)
Algae toxicity, ErC50: > 1000 mg/l (72 h)

Alkanes, C9-12-iso-

Fish toxicity, LC50: 2600 mg/l (96 h)
Daphnia toxicity, EC50, Daphnia magna: > 1000 mg/l (48 h)

Naphtha (petroleum), hydrotreated heavy

Fish toxicity, LC50, Oncorhynchus mykiss (Rainbow trout): > 1000 mg/l (96 h)
Algae toxicity, ErC50, Pseudokirchneriella subcapitata: > 1000 mg/l (72 h)

2-ethylhexanoic acid, zirconium salt

Fish toxicity, LC50, Oryzias latipes: > 100 mg/l (96 h)
Method: OECD 203
Daphnia toxicity, EC50: > 100 mg/l (48 h)

2-butanone oxime

Fish toxicity, LC50, Pimephales promelas (fathead minnow) 843 - 914 mg/l (96 h)
Daphnia toxicity, EC50, Daphnia magna (Big water flea): 201 mg/l (48 h)
Algae toxicity, ErC50, Desmodesmus subspicatus: 83 mg/l (72 h)

Long-term Ecotoxicity

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Alkanes, C9-12-iso-

Daphnia toxicity, NOEC, Daphnia magna: > 1 mg/l (21 day(s))

2-ethylhexanoic acid, zirconium salt

Daphnia toxicity, NOEC, Daphnia magna (Big water flea): 25 mg/l (21 day(s))

2-butanone oxime

Fish toxicity, NOEC, Oryzias latipes (Ricefish): >= 100 mg/l (14 day(s))

Algae toxicity, NOEC, Scenedesmus subspicatus: 93 mg/l (72 hour(s))

12.2. Persistence and degradability

Zink bis(2-ethylhexanoate)

: 69 Degradation rate (%): (21 day(s)); evaluation Readily biodegradable (according to OECD criteria)

Alkanes, C9-12-iso-

: 31,3 Degradation rate (%): (28 day(s))

Naphtha (petroleum), hydrotreated heavy

: 80 Degradation rate (%): (28 day(s)); evaluation Readily biodegradable (according to OECD criteria).

2-ethylhexanoic acid, zirconium salt

: 99 Degradation rate (%): (28 day(s))

2-butanone oxime

: 70 Degradation rate (%): (18 day(s)); evaluation According to OECD criteria the product is not readily biodegradable but inherently biodegradable.

12.3. Bioaccumulative potential

Zink bis(2-ethylhexanoate)

Partition coefficient: n-octanol/water: 5,7

Naphtha (petroleum), hydrotreated heavy

Partition coefficient: n-octanol/water: 5 - 6,7

2-ethylhexanoic acid, zirconium salt

Partition coefficient: n-octanol/water: 2,96

2-butanone oxime

Partition coefficient: n-octanol/water: 0,63

Bioconcentration factor (BCF)

2-butanone oxime

Bioconcentration factor (BCF): 2,5 - 5,8

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

080112 waste paint and varnish other than those mentioned in 08 01 11

Appropriate disposal / Package Recommendation

Recommendation

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

SECTION 14: Transport information

No dangerous good in sense of this transport regulation.

14.1. UN number

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not applicable

14.2. **UN proper shipping name**

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

not applicable

14.4. **Packing group**

not applicable

14.5. **Environmental hazards**

Land transport (ADR/RID)

not applicable

Marine pollutant

not applicable

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

-

Sea transport (IMDG)

EmS-No.

not applicable

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 2010/75/EU on industrial emissions

VOC-value (in g/L): 451

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.
265-150-3 64742-48-9	Naphtha (petroleum), hydrotreated heavy; Low boiling point; hydrogen treated naphtha	01-2119457273-39
265-150-3 64742-48-9	Naphtha (petroleum), hydrotreated heavy	01-2119463258-33
292-459-0 90622-57-4	Alkanes, C9-12-iso-	01-2119472146-39
202-496-6 96-29-7	2-butanone oxime	01-2119539477-28
286-272-3 85203-81-2	Zink bis(2-ethylhexanoate)	01-2119979093-30
245-018-1 22464-99-9	2-ethylhexanoic acid, zirconium salt	01-2119979088-21

SECTION 16: Other information

Full text of classification in section 3

Asp. Tox. 1 / H304

Aspiration hazard

May be fatal if swallowed and enters airways.

Flam. Liq. 3 / H226

Flammable liquids

Flammable liquid and vapour.

STOT SE 3 / H336

STOT-single exposure

May cause drowsiness or dizziness.

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Carc. 2 / H351	Carcinogenicity	Suspected of causing cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Acute Tox. 4 / H312	Acute toxicity (dermal)	Harmful in contact with skin.
Eye Dam. 1 / H318	Serious eye damage/eye irritation	Causes serious eye damage.
Skin Sens. 1 / H317	Respiratory or skin sensitisation	May cause an allergic skin reaction.
Eye Irrit. 2 / H319	Serious eye damage/eye irritation	Causes serious eye irritation.
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging fertility. Suspected of damaging the unborn child.
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
Repr. 2 / H361	Reproductive toxicity	Suspected of damaging the unborn child.

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

Further information

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

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.