

Safety Data Sheet
according to Regulation (EC) No. 1907/2006 (REACH)
according to Regulation (EU) No 453/2010



Article No.: 18-3
Print date 18.05.2016
Version 56.0

Silberlack ca.RAL 9006
Revision date 28.01.2016
Issue date 28.01.2016

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

1.1. Product identifiers

Article No. (manufacturer/supplier): 18-3
Identification of the substance or mixture Silberlack ca.RAL 9006
weißaluminium

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

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]

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [CLP].

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

Hazard statements

inapplicable

Precautionary statements

inapplicable

contains:

inapplicable

Supplemental Hazard information (EU)

EUH208 Contains 2-butanone oxime; phthalic anhydride. May produce an allergic reaction.
EUH210 Safety data sheet available on request.

2.3. Other hazards

SECTION 3: Composition / information on ingredients

3.2. Mixtures

Product description / chemical characterization

Description Alkyd paint with metallic pigment

Hazardous ingredients

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

| EC No. | REACH No. |
|--------|-----------|
|--------|-----------|

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| CAS No. INDEX No. | Chemical name classification: | Wt % Remark |
|---|--|----------------|
| 918-481-9 64742-48-9 | 01-2119457273-39 Naphtha (petroleum), hydrotreated heavy, benzene content of < 0,1% Asp. Tox. 1 H304 | 25 - 50 |
| 231-072-3 7429-90-5 013-002-00-1 | aluminium powder (desensitised) Water-react. 2 H261 / Flam. Sol. 1 H228 | 5 - 10 |
| 231-072-3 7429-90-5 013-002-00-1 | 01-2119529243-45 aluminium powder (stabilised) Flam. Sol. 1 H228 | 5 - 10 |
| 265-150-3 64742-48-9 649-327-00-6 | 01-2119457273-39 Naphtha (petroleum), hydrotreated heavy Asp. Tox. 1 H304 | 2,5 - 5 |
| 265-150-3 64742-48-9 | Naphtha (petroleum), hydrotreated heavy Asp. Tox. 1 H304 | 2,5 - 5 |
| 202-496-6 96-29-7 616-014-00-0 | 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 | hexanoic acid, 2-ethyl. zinc salt, alkaline Eye Irrit. 2 H319 / Repr. 2 H361d / Aquatic Chronic 3 H412 | 0,1 - 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

Remove contaminated, saturated clothing immediately. 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

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.

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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. Treat runoff as hazardous. 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 chapter 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 chapter 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. Soils have to conform to the "Guidelines for avoidance of ignition hazards due to electrostatic charges (BGR 132)".

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 40 °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:

aluminium powder (stabilised)

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

WEL, TWA: 10 mg/m³

Remark: (inhalable fraction)

WEL, TWA: 4 mg/m³

Remark: (respirable fraction)

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WEL, TWA: 4 mg/m³
Remark: (respirable fraction)

white spirit D60
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)

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

WEL, TWA: 10 mg/m³
Remark: (inhalable fraction)

WEL, TWA: 4 mg/m³
Remark: (respirable fraction)

WEL, TWA: 4 mg/m³
Remark: (respirable fraction)

Additional information

Stated values are taken from the then applicable German TRGS 900 or the German VCI table for exposure limit values.
TWA (EC): occupational exposure limit value
STEL (EC): short-term occupational exposure limit value

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. 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: 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
Colour: refer to label
Odour: characteristic

| Safety relevant basis data | Unit | Method: | Remark |
|-----------------------------|-----------|------------------|--------|
| Flash point: | > 61 °C | DIN 53213 | |
| Ignition temperature in °C: | 231 °C | | |
| Lower explosion limit: | 0,6 Vol-% | literature value | |
| Upper explosion limit: | 7,0 Vol-% | literature value | |

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| | | |
|--|------------------------|-----------|
| Vapour pressure at 20 °C: | 1 mbar | |
| Density at 20 °C: | 0,96 g/cm ³ | DIN 53217 |
| Water solubility (g/L): | insoluble | |
| pH at 20 °C: | no information | |
| Viscosity at °C: | leicht thixotrop | |
| Solvent separation test (%): | < 3 % | |
| Solid content (%): | 55 Wt % | |
| solvent content: | | |
| Organic solvents: | 45 Wt % | |
| Water: | 0 Wt % | |
| Initial boiling point and boiling range | 120 °C | |

9.2. **Other information:**

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

aluminium powder (stabilised)

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

Naphtha (petroleum), hydrotreated heavy, benzene content of < 0,1%

oral, LD50, Rat: > 5000 mg/kg

Method: OECD 401

dermal, LD50, Rabbit: > 5000 mg/kg

Method: OECD 402

inhalative (vapours), LC50, Rat: > 4,951 mg/L (4 h)

Method: OECD 403

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

Naphtha (petroleum), hydrotreated heavy, benzene content of < 0,1%

Aspiration hazard

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:

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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

Toxicological data are not available.

12.2. Persistence and degradability

Toxicological data are not available.

12.3. Bioaccumulative potential

Toxicological data are not available.

12.4. Mobility in soil

Toxicological data are not available.

12.5. Results of PBT 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

This mixture is not classified as dangerous according to international transport regulations (ADR/RID, IMDG, ICAO/IATA).

14.1. UN number

inapplicable

14.2. UN proper shipping name

14.3. Transport hazard class(es)

inapplicable

14.4. Packing group

inapplicable

14.5. Environmental hazards

Land transport (ADR/RID)

inapplicable

Marine pollutant

inapplicable

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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

Additional information

Land transport (ADR/RID)

tunnel restriction code -

Sea transport (IMDG)

EmS-No. inapplicable

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

Information according to 1999/13/EC about limitation of emissions of volatile organic compounds (VOC-guideline).

VOC-value (in g/L) ISO 11890-2: 455

VOC-value (in g/L) ASTM D 2369: 455

according to EU-regulation 2004/42/EC (appendix II)

EU limit value for this product (cat. (Cat. A/i)): 600 g/l (2007)/500 g/l (2010).

This product contains max 500 g/l VOC.

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).

Other regulations, restrictions and prohibition regulations

15.2. Chemical Safety Assessment

Chemical safety assessments for substances in this preparation were not carried out.

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. |
| Water-react. 2 / H261 | Substances and mixtures which, in contact with water, emit flammable gases | In contact with water releases flammable gases. |
| Flam. Sol. 1 / H228 | Flammable solids | Flammable solid. |
| 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 / H361d | Reproductive toxicity | Suspected of damaging the unborn child. |
| Aquatic Chronic 3 / H412 | Hazardous to the aquatic environment | Harmful to aquatic life with long lasting effects. |

Additional 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.