

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

**JANSEN** 

Article No.: 18-4 Goldlack  
Print date 23.03.2017 Revision date 22.03.2017  
Version 68.0 Issue date 22.03.2017

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

1.1. **product identifiers**

Article No. (manufacturer/supplier): 18-4  
Identification of the substance or mixture Goldlack  
metallisch seidenglänzend

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]**

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

Aquatic Chronic 2 / H411 Hazardous to the aquatic environment 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**



**Hazard statements**

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements**

P501 Dispose of contents/container to industrial incineration plant.

**contains:**

No data available

**Supplemental Hazard information (EU)**

EUH066 Repeated exposure may cause skin dryness or cracking.

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

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**

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

EC No. CAS No. INDEX No.	REACH No. Chemical name classification: // Remark	Wt %
918-481-9	01-2119457273-39 Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics Asp. Tox. 1 H304	35 - 50
231-159-6 7440-50-8	copper Acute Tox. 4 H302 / Aquatic Acute 1 H400 / Aquatic Chronic 2 H411	10 - 12,5
231-175-3 7440-66-6	01-2119467174-37 zinc powder - zinc dust (stabilised)	3 - 5
030-001-01-9 202-496-6	Aquatic Acute 1 H400 / Aquatic Chronic 1 H410 01-2119539477-28	
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	01-2119979093-30 Hexanoic acid, 2-ethyl-, zinc salt, basic Eye Irrit. 2 H319 / Repr. 2 H361 / Aquatic Chronic 3 H412	0,25 - 0,3
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	0,1 - 0,15

**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**

**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. Cool closed containers that are near the source of the fire.

## SECTION 6: Accidental release measures

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

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

### 6.2. Environmental precautions

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

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

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

### 6.4. Reference to other sections

Observe protective provisions (see chapter 7 and 8).

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advices on safe handling

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

#### Precautions against fire and explosion:

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

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

#### Requirements for storage rooms and vessels

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

phthalic anhydride

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

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

WEL, STEL: 12 mg/m<sup>3</sup>

Remark: (Sen)

#### Additional information

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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

**DNEL:**

zinc powder - zinc dust (stabilised)  
INDEX No. 030-001-01-9 / EC No. 231-175-3 / CAS No. 7440-66-6  
DNEL long-term dermal (systemic), Workers: 83 mg/kg  
DNEL long-term inhalative (systemic), Workers: 5 mg/m<sup>3</sup>  
DNEL long-term oral (repeated), Consumer: 0,83 mg/kg  
DNEL long-term dermal (systemic), Consumer: 83 mg/kg  
DNEL acute inhalative (systemic), Consumer: 2,5 mg/m<sup>3</sup>

**copper**

EC No. 231-159-6 / CAS No. 7440-50-8  
DNEL acute dermal, short-term (systemic), Workers: 273 mg/kg  
DNEL long-term dermal (systemic), Workers: 137 mg/kg  
DNEL acute inhalative (systemic), Workers: 20 mg/m<sup>3</sup>  
DNEL acute inhalative (systemic), Consumer: 20 mg/m<sup>3</sup>

**PNEC:**

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

**copper**

EC No. 231-159-6 / CAS No. 7440-50-8  
PNEC aquatic, freshwater: 0,0078 mg/l  
PNEC aquatic, marine water: 0,0052 mg/l  
PNEC sediment, freshwater: 87 mg/kg  
PNEC sediment, marine water: 676 mg/kg  
PNEC, Soil: 65,5 mg/kg  
PNEC sewage treatment plant (STP): 0,23 mg/l

**8.2. Exposure controls**

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

**Occupational exposure controls**

**Respiratory protection**

If concentration of solvents is beyond the occupational exposure limit values, approved and suitable respiratory protection must be used. 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.

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## 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

**Odour threshold:** No data available

**pH at 20 °C:** no information

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

**Initial boiling point and boiling range:** 120 °C  
Source: 1-methoxy-2-propanol

**Flash point:** > 61 °C

**Evaporation rate:** No data available

**Flammability (solid, gas):**  
**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:** 0,6 mbar  
Source: Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics

**Vapour density:** No data available

**Relative density:**  
**Density at 20 °C:** 1,06 g/cm<sup>3</sup>  
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 °C:** leicht thixotrop

**Explosive properties:** No data available

**Oxidising properties:** No data available

### 9.2. Other information

**Solid content (%):** 60 Wt %

**solvent content:**  
**Organic solvents:** 40 Wt %  
**Water:** 0 Wt %

## 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

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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**

zinc powder - zinc dust (stabilised)

oral, LD50, Rat: > 2000 mg/kg

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

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

**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**

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

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: 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**

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Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics  
Daphnia toxicity, EC50: > 1000 mg/l (48 h)

**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 and vPvB assessment**

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

**12.6. Other adverse effects**

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Appropriate disposal / Product Recommendation**

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

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

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

**packaging**

**Recommendation**

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

**SECTION 14: Transport information**

**14.1. UN number**

UN 3082

**14.2. UN proper shipping name**

Land transport (ADR/RID):

Environmentally hazardous substance, liquid, n.o.s.

(Zinkpulver - Zinkstaub (stabilisiert))

Sea transport (IMDG):

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

(Zinkpulver - Zinkstaub (stabilisiert))

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

Environmentally hazardous substance, liquid, n.o.s.

(Zinkpulver - Zinkstaub (stabilisiert))

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

9

**14.4. Packing group**

III

**14.5. Environmental hazards**

Land transport (ADR/RID)

UMWELTGEFÄHRDEND

Marine pollutant

p / Kupferpulver

**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

E

**Sea transport (IMDG)**

EmS-No.

F-A, S-F



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

14.7. **Transport in bulk according to Annex II of Marpol and the IBC Code**  
 not applicable

**SECTION 15: Regulatory information**

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

**EU legislation**

**Directive 2010/75/EU on industrial emissions**

VOC-value (in g/L): 424

**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: 424

**National regulations**

**Restrictions of occupation**

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

15.2. **Chemical Safety Assessment**

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

EC No. CAS No.	Chemical name	REACH No.
918-481-9	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics	01-2119457273-39
231-175-3 7440-66-6	zinc powder - zinc dust (stabilised)	01-2119467174-37
202-496-6 96-29-7	2-butanone oxime	01-2119539477-28
286-272-3 85203-81-2	Hexanoic acid, 2-ethyl-, zinc salt, basic	01-2119979093-30

**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.
Acute Tox. 4 / H302	Acute toxicity (oral)	Harmful if swallowed.
Aquatic Acute 1 / H400	Hazardous to the aquatic environment	Very toxic to aquatic organisms.
Aquatic Chronic 2 / H411	Hazardous to the aquatic environment	Toxic to aquatic life with long lasting effects.
Aquatic Chronic 1 / H410	Hazardous to the aquatic environment	Very toxic to aquatic life with long lasting effects.
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 or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
Aquatic Chronic 3 / H412	Hazardous to the aquatic environment	Harmful to aquatic life with long lasting effects.
STOT SE 3 / H335	Specific target organ toxicity (single exposure)	May cause respiratory irritation.
Skin Irrit. 2 / H315	skin corrosion/irritation	Causes skin irritation.
Resp. Sens. 1 / H334	Respiratory or skin sensitisation	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

**Abbreviations and acronyms**

ADR European Agreement concerning the International Carriage of Dangerous Goods by Road  
 WEL occupational exposure limit value



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CAS	Chemical Abstracts Service (division of the American Chemical Society)
CLP	Regulation (EC) No 1272/2008 on the classification, labelling and packaging of substances and mixtures
CMR	Substances classified as Carcinogenic, Mutagenic or toxic for Reproduction
DIN	German institute for standardization /German industry standard
DNEL	Derived No-Effect Level (REACH)
EINECS	European Inventory of Existing Commercial Chemical Substances
IATA	International Air Transport Association
IMDG Code	International maritime code for dangerous goods
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
OECD	Organization for Economic Cooperation and Development
PBT	Persistent, bioaccumulative and toxic substances
PNEC	Predicted No-Effect Concentration (REACH)
REACH	Registration , Evaluation , Authorisation and Restriction of Chemicals
RID	Regulation on the international carriage of dangerous goods by rail
	Technical rules Operational safety
VOC	Volatile organic compounds
vPvB	very persistent, very bioaccumulative

**Data sources:**

Data arise from reference works and literature.

**Further information**

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

Classification procedure: Calculation method.

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