

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 20.01.2017

Revision: 22.01.2014

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

· **1.1 Product identifier**

· **Trade name:** JUBOCID

· **Article number:** JBD

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

·

Biocidal product - an additive for in-film protection of coatings - PT 7, JBD.

· **Life cycle stages C** Consumer use

· **Sector of Use**

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU19 Building and construction work

· **Product category**

PC8 Biocidal products

JUBOCID is the biocidal product is to protect the coating or outer layer coatings. For other applications, it is not recommended. See Section 15.

· **Process category**

PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities

· **Environmental release category ERC10a** Widespread use of articles with low release (outdoor)

· **Application of the substance / the mixture**

Biocide

JUBOCID is an aqueous suspension of biocidal substances. In addition to the dispersion paints effectively prevents or inhibits the growth and development of the majority of the most widely wall moulds.

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

· **Manufacturer/Supplier:**

JUB d.o.o.

Dol pri Ljubljani 28

1262 DOL PRI LJUBLJANI

SLOVENIA

T: + 386 1 5884 183

F: + 386 1 5884 250

E: info@jub.si

· **Further information obtainable from:**

TRC JUB

Branko Petrovic, MSc

T: +386 1 5884 185

F: +386 1 5884 227

E: branko.petrovic@jub.eu

· **1.4 Emergency telephone number:**

Emergency number: 112

United Kindom: NPIS 0870 600 6266

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

The product is classified as an irritant and a dangerous mixture, toxic to the aquatic environment in accordance with the CLP Regulation 2008/1272 / EC.

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- **Classification according to Regulation (EC) No 1272/2008**



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Sens. 1 H317 May cause an allergic skin reaction.

- **2.2 Label elements**

- **Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

- **Hazard pictograms**



GHS07



GHS09

- **Signal word Warning**

- **Hazard-determining components of labelling:**

2-octyl-2H-isothiazol-3-one

3-Iodo-2-propynylbutylcarbamate

Pyrethione zinc

- **Hazard statements**

H317 May cause an allergic skin reaction.

H411 Toxic to aquatic life with long lasting effects.

- **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

P280 Wear eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P321 Specific treatment (see on this label).

P363 Wash contaminated clothing before reuse.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Additional information:**

Safety data sheet available on request.

- **2.3 Other hazards**

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- **3.2 Chemical characterisation: Mixtures**

The product is a mixture of biocidal active ingredients in water as a medium.

- **Description:** Mixture of substances listed below with nonhazardous additions.

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· Dangerous components:

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

CAS: 13463-41-7 EINECS: 236-671-3	Pyrithione zinc ⚠ Acute Tox. 3, H301; Acute Tox. 3, H331; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	< 0.5%
CAS: 1314-13-2 EINECS: 215-222-5	zinc oxide ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410	< 0.2%
CAS: 55406-53-6 EINECS: 259-627-5	3-Iodo-2-propynylbutylcarbamate ⚠ Acute Tox. 3, H331; ⚠ STOT RE 1, H372; ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	< 0.15%
CAS: 26530-20-1 EINECS: 247-761-7	2-octyl-2H-isothiazol-3-one ⚠ Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302; Skin Sens. 1, H317	< 0.1%

· Additional information:

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

· 4.1 Description of first aid measures**· After inhalation:**

Supply fresh air and to be sure call for a doctor.

In case of unconsciousness place patient stably in side position for transportation.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.**· After eye contact: Rinse opened eye for several minutes under running water.****· After swallowing: If symptoms persist consult doctor.****· 4.2 Most important symptoms and effects, both acute and delayed** *No further relevant information available.***· 4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

SECTION 5: Firefighting measures

· 5.1 Extinguishing media**· Suitable extinguishing agents:** *Use fire extinguishing methods suitable to surrounding conditions.***· 5.2 Special hazards arising from the substance or mixture** *No further relevant information available.***· 5.3 Advice for firefighters****· Protective equipment:** *No special measures required.*

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures *Wear protective clothing.***· 6.2 Environmental precautions:**

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

In case of gas release or seepage into the ground inform responsible authorities.

Do not allow to enter sewers/ surface or ground water.

· 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Prevent formation of aerosols.
- **Information about fire - and explosion protection:** No special measures required.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.
- **Information about storage in one common storage facility:**
Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.
- **Further information about storage conditions:**
Store under lock and key and with access restricted to technical experts or their assistants only.
- **Storage class:** Storage class: 12 – Incombustible products
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

· **8.1 Control parameters**

- **Ingredients with limit values that require monitoring at the workplace:**

26530-20-1 2-octyl-2H-isothiazol-3-one (0.1%)

WEL Long-term value: 0.05 mg/m³

- **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

- **Personal protective equipment:**
- **General protective and hygienic measures:**
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
- **Respiratory protection:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:** Goggles recommended during refilling

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· Risk management measures

It is recommended to use high-quality work clothing and protective equipment. Use only outfits that meet the following standards:

- *Protective gloves that meet the criteria of BS EN 374.*
- *Protective goggles must comply with standard BS EN 166.*
- *Protective mask respirator for small dust particles must conform to standard BS EN 149.*

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties**· General Information****· Appearance:**

Form:	Fluid
Colour:	White
· Odour:	Characteristic
· Odour threshold:	Not determined.

· pH-value at 20 °C:	8.6
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· Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	100 °C

· Flash point:	>100 °C
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· Flammability (solid, gas):	Not applicable.
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· Ignition temperature:

Decomposition temperature:	Not determined.
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· Auto-ignition temperature:	Product is not selfigniting.
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· Explosive properties:	Product does not present an explosion hazard.
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· Explosion limits:

Lower:	Not determined.
Upper:	Not determined.

· Vapour pressure:	Not determined.
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· Density at 20 °C:	1 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.
· Evaporation rate	Not determined.

· Solubility in / Miscibility with water:	Partly miscible.
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· Partition coefficient: n-octanol/water:	Not determined.
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· Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

· Solvent content:

Organic solvents:	0.0 %
VOC (EC)	The VOC content: Not specified.

· 9.2 Other information	No further relevant information available.
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SECTION 10: Stability and reactivity

· 10.1 Reactivity	No further relevant information available.
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- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**

oral. > 2000 mg/kg (rat)

dermal. > 2000 mg/kg(rat)

inhal. > 2 mg/kg, 4h (rat)

1314-13-2 zinc oxide

Oral LD50 > 5000 mg/kg (rat)

3-iodo-2-propynyl butylcarbamate (CAS: 55406-53-6)

Oral LD50: 1470 mg / kg (Rat)

Dermal LD50: > 2000 mg / kg (Rat)

Inhalation LC50: 0.67 mg / l, 4h (Rat)

2-Octyl-2H-isothiazol-3-one (CAS: 26530-20-1)

Oral: LC50: > 5000 mg / kg for 5 days (Quail)

LD50:> 500 mg / kg (Rat)

Dermal LD50: > 900 mg / kg (Rat)

Inhalation LC50: 0.27 mg / l, 4h (Rat)

Pyrethione Zinc (CAS: 13463-41-7)

Oral: LD50: 774-1300 mg / kg (Rat)

Dermal LD50:> 2000 mg / kg (Rabbit)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation**
May cause an allergic skin reaction.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **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.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:**

3-iodo-2-propynyl butylcarbamate (CAS: 55406-53-6)

EC50: 0.16 mg / l, 48h (Daphnia)

EC50: 0.095 mg / l, 72h (Algae)

LC50: 0.072 mg / l, 96h (Rainbow trout)

2-Octyl-2H-isothiazol-3-one (CAS: 26530-20-1)

EC50: 0.32 mg / l, 48h (Daphnia)

EC50: 0.058 mg / l, 21 days (Daphnia)

EC50: 0.42 mg / l, 48h (Daphnia)

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- LC50: 0,022 mg / l, 21 days (*Oncorhynchus mykiss*)
 LC100: 0.076 mg / l, 21 days (*Oncorhynchus mykiss*)
 LC50: 0.16 mg / l, 96h (*Blue shark*)
 NOEC: 0.0016 mg / l (*Daphnia magna*)
- Pyrrithione Zinc (CAS: 13463-41-7)**
 EC50: 0.05 mg / l, 48h (*daphnia*)
 EC50: 0.067 mg / l, 72h (*Selenastrum capricornutum*)
 LC50: 0.021 mg / l, 96h (*modroškržni shark*)
 LC50: 0,15 mg / l, 96h (*Oncorhynchus mykiss*)
- **12.2 Persistence and degradability** .
 - **12.3 Bioaccumulative potential** No further relevant information available.
 - **12.4 Mobility in soil** No further relevant information available.
 - **Ecotoxicological effects:**
 - **Remark:** Harmful to fish
 - **Additional ecological information:**
 - **General notes:**
 Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
 Harmful to aquatic organisms
 - **12.5 Results of PBT and vPvB assessment**
 - **PBT:** Not applicable.
 - **vPvB:** Not applicable.
 - **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
 Waste of product is classified as ecotoxic waste (code under the Rules H 14) due to the presence C34 (biocides) EWC: 08 01 19*. Removes it only in an organized manner, or in landfill specially adapted to the landfill (CN proceedings under the Rules D5) or physico-chemical treatment (D9) or high-temperature incineration (D10).
- **Recommendation**
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- **European waste catalogue**

08 01 19*	aqueous suspensions containing paint or varnish containing organic solvents or other hazardous substances
15 01 10*	packaging containing residues of or contaminated by hazardous substances

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN-Number** The product JUBOCID is a substance or mixture classified in accordance with the provisions of ADR as dangerous for transport - UN3082.
- **ADR, IMDG, IATA** UN3082
- **14.2 UN proper shipping name**
- **ADR** 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.

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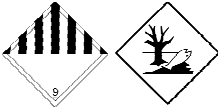
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· IMDG	<i>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (zinc oxide, 3-Iodo-2-propynylbutylcarbamate, 2-octyl-2H-isothiazol-3-one), MARINE POLLUTANT</i>
· IATA	<i>ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.</i>
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
	
· Class	<i>9 Miscellaneous dangerous substances and articles.</i>
· Label	<i>9</i>
· 14.4 Packing group	
· ADR, IMDG, IATA	<i>III</i>
· 14.5 Environmental hazards:	
· Marine pollutant:	<i>No</i>
· Special marking (ADR):	<i>Symbol (fish and tree)</i>
· Special marking (IATA):	<i>Symbol (fish and tree)</i>
· 14.6 Special precautions for user	<i>Warning: Miscellaneous dangerous substances and articles.</i>
· Danger code (Kemler):	<i>9</i>
· EMS Number:	<i>F-A,S-F</i>
· Stowage Category	<i>A</i>
· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	<i>Not applicable.</i>
· Transport/Additional information:	
· ADR	
· Limited quantities (LQ)	<i>5L</i>
· Excepted quantities (EQ)	<i>-</i>
· Tunnel restriction code	<i>Code: E1</i> <i>Maximum net quantity per inner packaging: 30 ml</i> <i>Maximum net quantity per outer packaging: 1000 ml</i> <i>E</i>
· UN "Model Regulation":	<i>UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., 9, III (contain: 2-octyl-2H-isothiazol-3-one, Zinc pyrithione)</i>

SECTION 15: Regulatory information

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

Following additional provisions are considered in the preparation of the document:

Legislation on the occupational health and safety, the chemical legislation and regulations on biocidal products, regulations on classification, packaging and labeling of chemical and biocidal products and requirements on safety data sheets for chemicals and biocidal products composition, as well as regulations on the management of packaging and packaging waste and wastes

· **Labelling according to Regulation (EC) No 1272/2008 -**

· **Chemical safety assessment -**

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- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category E2**
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
- **National regulations:**
- **Other regulations, limitations and prohibitive regulations**
JUBOCID is the biocidal product is to protect the coating or outer layer coatings. For other applications, it is not recommended.
In accordance with the applicable regulations is not permitted to use the product as a disinfectant to the area of food and feed, as wood preservatives, as a protective agent in the coolant and processing systems as a means to prevent the formation of mucus as a means to protect metalworking-fluid and as insecticidal and acaricidal agents.
Use the active ingredients of the preparation is prohibited for application in the following types of biocidal products: PT4, PT8, PT11, PT12, PT13 and PT18.

Before use, examine the recommendations in the technical data sheet / instructions and product label.
- **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant phrases**
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H331 Toxic if inhaled.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
- **Recommended restriction of use**
Claims contained in this document are based on our actual knowledge at the time of revision of this document. They do not undertake the properties of the product described in terms of the legal provisions for the pledge.
Placing this document as available does not unbind the product customer from its responsibility to comply with all relevant laws and regulations applicable for this product. This is especially valid in the case of product resale or resale of its mixtures or manufactured products from other areas of law and industrial property rights of third parties. If the product described above is changed by crafting or mixing with other materials, it is not possible to transfer claims from this document onto a newly made product, unless otherwise specified. In the case of product re-packaging the customer must attach the required relevant safety information as well.
- **Department issuing SDS:**
JUB d.o.o.
Product safety department
- **Contact:**
mag. Branko Petrovič
TRC-JUB
branko.petrovic@jub.eu
- **Abbreviations and acronyms:**
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 3: Acute toxicity – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Skin Corr. 1B: Skin corrosion/irritation – Category 1B
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

*** Data compared to the previous version altered.**
Version 1.0, 17.01.2013
Version 2.0, 23.01.2015; Amendments to Chapter 2., 3., 13.,16.
Version 3.0, 13.06.2016; Amending Chapter: 1.,2.,3.,8.,14.,15.,16.

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