

Printing date 22.01.2014 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 ver. 9

· 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.

· Product category

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

· Application of the substance / the mixture

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

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· Further information obtainable from:

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· 1.4 Emergency telephone number:

During normal opening times (8 - 16h CET) Group JUB: +386 1 5884 185

United Kindom: NPIS 0870 600 6266

SECTION 2: Hazards identification

- · 2.1 Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



Skin Sens. 1

H317 May cause an allergic skin reaction.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

· Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xi; Sensitising

R43: May cause sensitisation by skin contact.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

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· Classification system:

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The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

· 2.2 Label elements

· Labelling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

· Code letter and hazard designation of product:



Xi Irritant

· Hazard-determining components of labelling:

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

· Risk phrases:

- 43 May cause sensitisation by skin contact.
- 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· Safety phrases:

- 2 Keep out of the reach of children.
- 24/25 Avoid contact with skin and eyes.
- 23 Do not breathe vapour/spray.
- 28 After contact with skin, wash immediately with plenty of water.
- 29/56 Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.
- 37 Wear suitable gloves.
- 46 If swallowed, seek medical advice immediately and show this container or label.
- 60 This material and its container must be disposed of as hazardous waste.

· Special labelling of certain preparations:

Contains 2-octyl-2H-isothiazol-3-one. May produce an allergic reaction.

- · 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 characterization: Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous compon	ents:	
CAS: 13463-41-7		< 0.5%
EINECS: 236-671-3	R 🙀 T R23; 🗙 Xn R22	
	Acute Tox. 2, H330; 🕔 Acute Tox. 4, H302	
CAS: 1314-13-2	zinc oxide	< 0.5%
EINECS: 215-222-5	N R50/53	
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410	
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CAS: 55406-53-6	3-iodo-2-propynyl butyl carbamate	< 0.1%
EINECS: 259-627-	5 🗶 Xn R20/22; 🗶 Xi R41; 🖐 N R50	
	Eye Dam. 1, H318; 🕸 Aquatic Acute 1, H400; 🗘 Acute Tox. 4, H302; Acute Tox. 4, H332	
CAS: 26530-20-1	2-octyl-2H-isothiazol-3-one	< 0.1%
EINECS: 247-761-	7 😡 T R23/24; 🔁 C R34; 🗙 Xn R22; 🗙 Xi R43; 🝢 N R50/53	
	Acute Tox. 3, H311; Acute Tox. 3, H331; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4,	
	Aquatic Acute 1, H400; Aquatic Chronic 1, H410; 🔨 Acute Tox. 4,	
	H302; Skin Sens. 1, H317	

· Additional information:

For the wording of the listed risk 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.

- \cdot 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: CO2, sand, extinguishing powder. Do not use water.

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.

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).

· 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling No special precautions are necessary if used correctly.
- · Information about fire and explosion protection: No special measures required.

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- · 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:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- · 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
- · 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 EN 388 (Category II).
- Protective goggles must comply with standard EN 166
- Protective mask respirator for small dust particles must conform to standard EN 149

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9.1 Information on basic physical a General Information	nd chemical properties
Appearance:	
Form:	Fluid
Colour:	White
Odour:	Characteristic
Odour threshold:	Not determined.
pH-value at 20 °C:	8.6
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C
Flash point:	> 100 °C
Flammability (solid, gaseous):	Not applicable.
Ignition temperature:	
Decomposition temperature:	Not determined.
Self-igniting:	Product is not selfigniting.
Danger of explosion:	Product does not present an explosion hazard.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not determined.
Density at 20 °C:	1 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not determined.
Solubility in / Miscibility with	n a : 11
water:	Partly miscible.
Partition coefficient (n-octanol/wate	er): Not determined.
Viscosity:	Mala
Dynamic:	Not determined.
Kinematic:	Not determined.
Solvent content:	0.5.1.07
Organic solvents: VOC (EC)	0.5-1 % The VOC content: Not specified.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity
- · 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.

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SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- · Acute toxicity:
- · LD/LC50 values relevant for classification:

oral. > 5000 mg/kg (Rat) dermal. > 5000 mg/kg(Rat) inhal. > 5 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)
Pyrithione Zinc (CAS: 13463-41-7)
Oral: LD50: 774-1300 mg / kg (Rat)
Dermal LD50:> 2000 mg / kg (Rabbit)

- · Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: Sensitization possible through skin contact.
- $\cdot \textit{Additional toxicological information:}$

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

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)

LC50: 0,022 mg/l, 21 days (Oncorhyncus mykiss)

LC100: 0.076 mg/l, 21 days (Oncorhyncus mykiss)

LC50: 0.16 mg / l, 96h (Blue shark)

NOEC: 0.0016 mg / l (Daphnia magna)

Pyrithione 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.
- $\cdot \textbf{12.4 Mobility in soil} \ \textit{No further relevant information available}.$
- · Ecotoxical effects:
- · Remark: Harmful to fish

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- · 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 dangerous substances
- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

14.1 UN-Number	The product JUBOCID is not a substance or mixtur classified in accordance with the provisions of ADR a dangerous for transport.
ADR, ADN, IMDG, IATA	Void
· · · · · · · · · · · · · · · · · · ·	7010
14.2 UN proper shipping name ADR, ADN, IMDG, IATA	Void
ADK, ADN, IMDG, IATA	voiu
14.3 Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	Void
14.4 Packing group	
ADR, IMDG, IATA	Void
14.5 Environmental hazards:	
Marine pollutant:	No
14.6 Special precautions for user	Not applicable.
14.7 Transport in bulk according to Anne	ex II of
MARPOL73/78 and the IBC Code	Not applicable.
UN "Model Regulation":	_

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

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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 EU guidelines:

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. Use the biocidal product safely.

· 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

- 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.
- H330 Fatal if inhaled.
- H331 Toxic if inhaled.
- H332 Harmful if inhaled.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- R20/22 Harmful by inhalation and if swallowed.
- R22 Harmful if swallowed.
- R23 Toxic by inhalation.
- R23/24 Toxic by inhalation and in contact with skin.
- R34 Causes burns.
- R41 Risk of serious damage to eyes.
- R43 May cause sensitisation by skin contact.
- R50 Very toxic to aquatic organisms.
- R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

· 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 on to 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 MSDS: Product safety department

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· 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)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized 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

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