

Material Safety	Page: 1/11
Data Sheet	Revision Nr: 0
	Date: 21/02/2011
Solcide P 113	Supersedes: 0/0/00

1. Identification of the Substance/Preparation and of the Company Undertaking

Product Name: Solcide P113

Product Code

<u>Use/Description of Product</u>

Biocidal product for industrial and/or commercial use.

Company Name
Solstar Europe Limited
14 Egerton
High Legh, Knutsford
Cheshire, WA16 6PT

Office No : + 44 (0) 1925 753879 Mobile No : + 44 (0) 7809370170

Competent Person responsible for Safety Data Sheet

Richard Hirst, E-Mail: rjh@solstareurope.com

2. Hazard Identification

<u>Classification of the substance or mixture</u> <u>Classification according to Directive 67/548/EEC or Directive 1999/45/EC</u>



C; Corrosive R34: Causes burns



Xi: Sensitising

R43 May cause sensitisation by skin contact



N; Dangerous for the environment R50 Very toxic to aquatic organisms.



Material Safety	Page: 2/11
Data Sheet	Revision Nr: 0
	Date: 21/02/2011
Solcide P 113	Supersedes: 0/0/00

Classification system:

The classification of health and environmental hazards is based on experimental and epideriological data together with the conventional method according to articles 6 & 7 of the Directive 1999/45/EC.

Label elements

Labelling according to EU guidelines:

Code letter and hazard designation of product:



C Corrosive



Dangerous for the environment

Hazard determining components of labeling:

2-Octyl-2H-isothiazol-3-one

Risk Phrases:

- 34 Causes burns
- 43 May cause sensitization by skin contact.
- 50 Very toxic to aquatic organisms.

Safety Phrases:

- In case of contact with eyes rinse immediately with plenty of water and seek medical advise
- 36/37 Wear suitable protective xlothing and gloves.
- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
- This material and its container must be disposed of as hazardous waste.
- Avoid release to the environment. Refer to special instructions/ safety data sheets.

Other hazards

Results of PBT and vPvB assessment

<u>PBT:</u> Not applicable <u>vPvB:</u> Not applicable

3. Compositional Information on Ingredients

Chemical Characterisation: mixtures

<u>Description:</u> Preservative based on isothiazolones.



Material Safety	Page: 3/11
Data Sheet	Revision Nr: 0
	Date: 21/02/2011
Solcide P 113	Supersedes: 0/0/00

Dangerous Components

CAS: 26530-20-1

EINECS: 247-761-7

\index number: 613
112-00-5

2-Octyl-2H-istiazol-3-one

8%

T R23/24, C R34, Xn R22, Xi R43,

N; R50/53

Additional Information:

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

4. First Aid Measures

General Information

Personal Protection for the first aider.

After Inhalation

Supply fresh air; consult doctor in case of symptoms.

After Skin Contact

Remove contaminated clothing immediately.

Destroy or thoroughly clean contaminated shoes.

Wash immediately with plenty of water and soap and rinse thoroughly.

If skin irritation occurs, get medical attention.

In case of extensive skin contact immediately use safety shower.

After Eye Contact

Rinse opened eye for at least 15 minutes under running water and apply a sterile protective bandage. Get medical attention.

After Swallowing

Rinse mouth and drink plenty of water.

Do not induce vomiting. Call for medical help.

Information for the Doctor

Most important symptoms and effects, both acute and delayed

Allergic skin reaction.

Skin reaction like itching, reddening, blistering may appear after hours.

Indication of any immediate medical attention and special treatment needed

Treat skin and mucous membrane with antihistamine and corticoid preparations.

5. Fire Fighting Measures

Suitable extinguishing agents:

Water spay jet, extinguishing powder, CO2, foam.

Unsuitable extinguishing agents for reasons of safety:



None

Material Safety	Page: 4/11
Data Sheet	Revision Nr: 0
	Date: 21/02/2011
Solcide P 113	Supersedes: 0/0/00

Special hazards arising from the substance or mixture:

In case of fire, toxic incineration products may be released such as:

Nitrogen Oxides (NOX)

Carbon Monoxide (CO)

Sulphur Dioxide (SO2)

Protective equipment

Wear self contained breathing apparatus.

Additional Information:

Collect contaminated fire fighting water separately. It must not enter drains.

6. Accidental Release Measures

Personal safety precautions:

Wear protective clothing (See item 8).

Keep unprotected persons away.

When selecting the protective suit attention has to be paid to the complete and safe protection of skin and mucous membranes. Impermeable protective clothes, protective boots made of neoprene, complete face protection and nitrile-rubber-gloves with long tops should be worn.

Environmental precautions:

As the product is hazardous for the aquatic environment, it must be prevented from reaching surface water.

Prevent from spreading (e.g. by enclosing with a ring of chemical absorbent).

Inform authorities in case of contamination of water sewage system.

Methods and material for containment and cleaning up:

Collect large amounts in suitable container. Cover the rest with absorbent, mix intensively and collect mechanically.

Suitable binder: Multipurpose absorbent.

Dispose of contaminated material as waste according to item 13.

Polluted surfaces can be decontaminated with Sodium containing 5% sodium bisulphite and 5% sodium bicarbonate.

Reference to other sections

See section 8 for information on personal protection equipment.

7. Handling and Storage

Information for safe handling:

Ensure good exhaust ventilation at the workplace

It is preferable to handle the product in a closed system.

Prevent contamination of the inhaled air by heating up the product or forming aerosols.

Load carefully, avoid splashes.



Material Safety	Page: 5/11
Data Sheet	Revision Nr: 0
	Date: 21/02/2011
Solcide P 113	Supersedes: 0/0/00

Compliance with the minimum requirements designed to guarantee a better standard of safety and health at work is essential to ensure the safety and health of workers.

<u>Information about protection against explosion and fire:</u>

No special measure required.

Storage

Requirements to be met by storerooms and containers:

Use polyolefin containers.

Information about suitable materials for vessels and piping can be requested from Solstar Europe Limited

Information about storage in a common storage facility:

None.

Further information about storage conditions:

Storage recommended at temperatures from 10°C to 30°C . Keep containers tightly sealed Prevent release to the environment by adequate secondary containment design and use of appropriate spill control procedures.

Minimum storage temperature: 10°C

Sensitivity against frost: Protect from frost.

8. Exposure controls and personal protection:

Additional information about design of technical systems:

No further data see item 7.

Components with critical values that require monitoring at the workplace:

None established.

Personal protective equipment

General protective and hygienic measures:

Use skin cream for skin protection.

Avoid contact with the eyes and the skin.

Wash hands during work breaks and at the end of the shift.

Provide skin protection plan.

Respiratory protection:

Respiratory protection is recommended in example substance concentrations exceeding the air limiting valye.

Filter A/P2.



Material Safety	Page: 6/11
Data Sheet	Revision Nr: 0
	Date: 21/02/2011
Solcide P 113	Supersedes: 0/0/00

Protection of hands:



Chemical protective gloves according to DIN EN 374 with CE-labeling.

Check the condition of protective gloves after each use for any damages like holes, cuts or tears. Do not wear protective gloves longer than necessary.

After use of gloves apply skin-cleaning agents and skin cosmetics.

Material of gloves:

Nitrile rubber, NBR

Penetration time of glove material:

Penetration time depends on different criteria and may be determined by the manufacturer according to the standard DIN 374-3.

Gloves made of the following materials are not suitable:

Leather gloves

Eye Protection



Hoder / temple spectacles with side protection (EN 166).

Body protection:

Protective clothing.

Risk management measures

The operators shall be instructed adequately.

The workplace shall be inspected regularly by competent personel e.g. the safety representative.

9 Physical and chemical properties:

General Information

Form: Emulsion
Colour: White
Odour: Mild
pH value at 20°C 4 - 7

Change in condition

Melting Point / Melting range: Not determined

Boiling Point / Boiling range: ca 100°C

Flash point: Not applicable.



Material Safety	Page: 7/11
Data Sheet	Revision Nr: 0
	Date: 21/02/2011
Solcide P 113	Supersedes: 0/0/00

<u>Self Inflammability:</u> Product is not self igniting.

<u>Danger of explosion:</u> Product is not explosive.

Density at 20°C: ca 1.0 g/cm³

Solubility in / Miscibility

With Water: Emulsifiable

10 Stability and reactivity

Conditions to be avoided:

Protect against temperatures<10°C

Minimum shelf life: 12 months from production date, if stored at a temperature of about 20°C

Possibility of hazardous reactions

No dangerous reactions known.

Incompatible Materials:

Alkalis

Strong oxidizing agents

Reducing agents

Nucleophils

Hazardous decomposition products:

None, if storage and handling is done according to specification.

11 Toxicological information

Acute toxicity:

Troute tomicity .		
LD/LC50 values that are relevant for classification		
Oral	LD50	>2000 mg/Kg (rat)
Dermal	LD50	>2000 mg/Kg (rat)
Inhalation	LC50/4hr	>5 mg/L (rat)

Primary irritant effect:

On the skin	
OECD 404 (skin)	Corrosive (rabbit)
	C69708, 16.03.2010

On the eye: Strong irritant effect, with the danger of severe eye injury.

Sensitization:

Sensitization possible by skin contact.



Material Safety	Page: 8/11
Data Sheet	Revision Nr: 0
	Date: 21/02/2011
Solcide P 113	Supersedes: 0/0/00

Subacute to chronic toxicity		
26530-20-1 2-Octyl-"H-isthiazol-3-one		
EPA 83-3	58 mg/Kg d (rat	
	No teratogenicity seen at highest dose	
EPA 84-2	(salmonella typhimurium)	
	OIT 94+/-3% is unable to produce mutation in the 5 strains upto conc.	
	Extend. Into the toxic range	

12 Ecological information:

Toxicity

Aquatic toxicity:	
EC50 / 48 hrs	5.25 mg/l (Daphnia)
IC50 72 hrs	1.05 mg/l (Selenastrum capricornutum)
LC50 / 96 hrs	0.38 mg/l (rainbow trout)

Persisence and degradability

Method OECD 303 A (Coupled Units Test)

Analysing Method DOC-Elimination

Degree of elimination: The substance OIT is classified as biogradable according to OECD 303A

(simulation test- Aerobic Sewage Treatment).

Biodegradability:

Degree of biological degradability: >80%

Behaviour in environmental systems:

Components:

The active substance OIT proved to be biodegradable in simulation test "Aerobic Mineralisation in Surface Water – Simulation Biodegradation Test" according to OECD guideline 309 at test concentrations of $0.01\,\text{mg/l}$ and $0.1\,\text{mg/l}$. OIT is rapidly degraded in natural river water, and the DT50 (degradation half time = time needed to reach of 50% biodegradation, i.e. 50% of the substance are degraded) ranges between 1 and 3 days. DT90 (degradation of 90% of the substance) is reached after 3 to 5 days.

Bioaccumulative potential

Low potential to bioaccumulate.

Log Kow 2.9; OIT

Ecotoxicological effects:

Behaviour in sewage processing plants	
26530-20-1 2-Octyl-2H-isothiazol-3-one	
EC50	30.4 mg/l (Activated Sludge)
	OECD 209



Material Safety	Page: 9/11
Data Sheet	Revision Nr: 0
	Date: 21/02/2011
Solcide P 113	Supersedes: 0/0/00

Remark:

Depending on concentration, toxic effects on activated sludge organisms are possible.

Additional ecological information:

AOX-indication:

The product does not contain substances, which influence the AOX of waste water.

The formulation contains the following heavy metals and their compounds according to Directive 2006/11/EC:

.None

General Notes:

The product contains materials that are harmful to the environment.

Avoid transfer to the environment. Results of PBT and vPvB assessment

PBT: Not applicable vPvB: Not applicable

13 Disposal considerations:

Waste treatment methods:

Recommendation

Product must be disposed of according to local regulations pertaining to the disposal of hazardous waste.

European Waste catalogue	
16 00 00	Wastes not otherwise specified in the list
16 03 00	Off-specification batches and unused products
16 03 05	Organic wastes containing dangerous substances

Contaminated packaging:

Recommendation:

Remove all product from packaging and clean thoroughly before recycling.

Recommended cleaning agent:

Water, if necessary with cleaning agent.

14 Transport information:

<u>Land transport ADR/RID (cross-border / domestic):</u>







Material Safety	Page: 10/11
Data Sheet	Revision Nr: 0
	Date: 21/02/2011
Solcide P 113	Supersedes: 0/0/00

ADR / RID Class: 8 (C9) Corrosive substances.

Kemler Number:80UN-Number:1760Packaging group:IIILabel8

Special Marking symbol (fish and tree)

UN proper shipping name: 1760 CORROSIVE LIQUID, N.O.S. (2-Octyl-2H-istiazol-3-one)

<u>Tunnel restriction code</u> E

Maritime transport IMDG:





IMDG Class:8UN Number:1760Label8Packing groupIIIEMS Number:F-A,S-BMarine pollutant:yes

Symbol (fish and tree)

<u>CORROSIVE LIQUIDN.O.S.</u> (2-Octyl-2H-isotiazol-3-one)

Air transport ICAO-TI and IATA-DGR:



 ICAO/IATA Class:
 8

 UN/ID Number:
 176

 Label:
 8

 Packing Group:
 III

<u>Correct technical name:</u> CORROSIVE LIQUID, N.O.S. (2-Octyl-2H-isothiazol-3-one)

Remarks: Packing Instruction / Max. net weight

Passenger aircraft: 852 / 5L Cargo aircraft: 856 /60L

Special precautions for user Warning: Corrosive substances.

15 Regulatory information

<u>Safety health and environmental regulations/legislation specific for the substance or mixture Designation according to EC guidelines:</u>

Identity of biocidal active substances according to EC directive 98/8/EC



2-Octyl-2H-isothiazol-3-one	
Material Safety	Page: 11/11
Data Sheet	Revision Nr: 0
	Date: 21/02/2011
Solcide P 113	Supersedes: 0/0/00

National regulations

Information about limitation of use:

Take note of Directive 94/33/EC on the protection of young people at work.

Take note of Directive 92/85/EC on the safety and health of pregnant women at work.

Regulations which may apply in event of accident: Control of Major Accident Hazards (COMAH) Critical quantity values according to the regulations on accidents should be adhered to.

<u>Indication of VOC according to Directive 1999/13 EG regarding the limitation of emissions of volatile organic compounds (VOC-Directive):</u>

Due to the formulation, no volatile organic solvents, which may contribute to the VOC-value, are contained.

Indication of VOC:

Directive 2004/42/EG: max. VOC-content: <1g/l (calculated)

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16 Other information:

This data is based on our current knowledge. However it does not constitute a guarantee for any specific product features and does not establish a legally valid contractual relationship.

Relevent phrases

H301 Toxic if swallowed

H311 Toxic in contact with skin

H314 causes severe skin burns and eye damage

H331 Toxic if inhaled

H400 very Toxic to aquatic life

H410 Very Toxic to aquatic life with long lasting effects.

R22 Harmful if swallowed

R23/24 Toxic by inhalation, and in contact with skin

R34 Causes burns

43 May cause sensitisation by skin contact.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment

Training hints

Further information regarding the directions for use can be found in the Product Data Sheet. Should you require any information regarding classification and registration of preparations containing this product please contact Solstar Europe Limited

