

Material Safety	Page: 1/12
Data Sheet	Revision Nr: 0
	Date: 22/03/2011
Solcide P 112	Supersedes: 0/0/00

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

Product Name: Solcide P112

**Product Code** 

**Use/Description of Product** 

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

Classification of the substance or mixture

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



C Corrosive R34: Causes burns



Xi Sensitising

R43 May Cause sensitization by skin contact.

#### **Classification system:**

The classification of health and environmental hazards is based either on test results or on the conventional calculation method according to articles 6 & 7 of directive 1999/45/EC (DPD).



Material Safety	Page: 2/12
Data Sheet	Revision Nr: 0
	Date: 22/03/2011
Solcide P 112	Supersedes: 0/0/00

# **Label Elements**

Labelling according to EU guidelines:

Code letter and hazard designation of product:



Corrosive

# Hazard determining components of labeling:

Mixture of 5-chloro-2-methyl-4-isothiazolin-3-one and 2-methyl-2H-isothiazol-3-one (3:1)

#### Risk Phrases

R34 Causes burns.

R43 May cause sensitization by skin contact.

# Safety Phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek

medical advice.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

In case of accident or if you feel unwell, seek medical advice immediately (show 45

the label where possible).

60 This material and its container must be disposed of as hazardous waste. 61

Avoid release to the environment. Refer to special instructions/safety data

sheets.

#### Other hazards

#### Results of PBT and vPvB assessment

PBT: this mixture does not contain substances that meet the PBT criteria of REACH,

annex XIII

vPvB: This mixture does not contain substances that meet the vPvB criteria of REACH.

annex XIII

# 3. Compositional Information on Ingredients

#### **Chemical Characterisation**

Description:

Preservative based on isothiazolones.

Dangerous Components		
CAS: 55965-84-9	Mixture, containing 5-Chloro-2-methyl-2H-isothiazol-3-one	1.50/
Index Number 613-167-00-5	and 2-Methyl-2H-isothiazol-3-one (3:1)	1.5%
010 101 00 0	$\mathbb{Z}$ T, $\mathbb{Z}$ C, $\mathbb{Z}$ Xi $\mathbb{Z}$ N; R 23/24/25-34-43-50/53	



Material Safety	Page: 3/12
Data Sheet	Revision Nr: 0
	Date: 22/03/2011
Solcide P 112	Supersedes: 0/0/00

#### **Additional Information:**

The CAS No. of the single components are CIT: 26172-55-4; MIT: 2682-20-4

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**

If on skin (or hair):

 $Remove/Take\ of fimmediately\ all\ contaminated\ clothing\ immediately.\ Rinse\ skin\ with\ water/shower.$ 

Destroy or thoroughly clean contaminated shoes.

If skin irritation or rash occurs: Get medical advice/attention.

Immediate medical treatment necessary. Failure to treat burns can prevent wounds from healing.

#### **After Eye Contact**

If in eyes:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/ attention.

#### **After Swallowing**

If swallowed

Rinse mouth. Do not induce vomiting.

Call a Poison Centre or doctor/physician if you feel unwell.

Bring vomiting person into recovery position.

Do not give anything by mouth to an unconscious person.

#### Information for the Doctor

Probable mucosal damage may contraindicate the use of gastric lavage.

#### Most important symptoms and effects, both acute and delayed

Allergic skin reaction.

Corrosive damage to gastro-intestinal tract.

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

Danger of gastric perforation

#### Indication of any immediate medical attention and special treatment needed

If swallowed, gastric irrigation with activated carbon.

Treat skin and mucous membrane with antihistamine and corticoid preparations.

Rinse eyes thoroughly with physiological saline.



Material Safety	Page: 4/12
Data Sheet	Revision Nr: 0
	Date: 22/03/2011
Solcide P 112	Supersedes: 0/0/00

# 5. Fire Fighting Measures

#### **Suitable extinguishing agents:**

Water spay jet, extinguishing powder, CO2, foam.

#### Unsuitable extinguishing agents for reasons of safety:

None

#### 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)

Hydrogen Chloride (HCl)

#### 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 precautions, protective equipment and emergency procedures

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

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

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

Inform authorities in case of contamination of water sewage system.

# Methods and material for containment and clean 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 a solution containing 5% Sodium bisulphate and 5% Sodium bicarbonate.

In case of a spill drained to the sewer collect contaminated water in a suitable container and add 10% Sodium bisulphite solution. Contact supplier for further instructions.



Material Safety	Page: 5/12
Data Sheet	Revision Nr: 0
	Date: 22/03/2011
Solcide P 112	Supersedes: 0/0/00

# 7. Handling and Storage

#### Precautions for safe handling:

Ensure good exhaust ventilation at the workplace

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

Load carefully, avoid splashes.

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.

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

**Storage** 

Requirements to be met by storerooms and containers:

Store only in original containers.

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

#### Information about storage in a common storage facility:

Store away from foodstuffs.

#### Further information about storage conditions:

Keep containers tightly sealed

Prevent release to the environment by adequate secondary containment design and use of appropriate spill control procedures.

# 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.

### Additional information:

Information valid at the time if review of safety data sheet.

# 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.



Material Safety	Page: 6/12
Data Sheet	Revision Nr: 0
	Date: 22/03/2011
Solcide P 112	Supersedes: 0/0/00

#### **Respiratory protection:**

Use respiratory protection if the OEL is exceeded. Filter A/P2.

#### 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:

Gloves for mechanical protection do not provide protection against chemicals.

#### Eye Protection



**Face Shield** 

#### **Body protection:**

Protective clothing.

Apron

Full head, face and neck protection

#### Risk management measures

The operators shall be instructed adequately.

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

# 9 Physical and chemical properties:

#### **General Information**

Form: Liquid

<u>Colour:</u> Colourless to yellow

Odour: Mild



Material Safety	Page: 7/12
Data Sheet	Revision Nr: 0
	Date: 22/03/2011
Solcide P 112	Supersedes: 0/0/00

Change in condition

Melting Point / Melting range: Not determined

Boiling Point / Boiling range: 100°C

<u>Flash point:</u> Not applicable.

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

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

Vapour pressure at 20°C: 23 mbar

Density at 20°C: 1.015-1.035 g/cm3

Solubility in / Miscibility

With Water: Fully miscible

pH-value at  $20^{\circ}$ C: 3.0 - 4.0

# 10 Stability and reactivity

# Conditions to be avoided:

Before handling, the product should not be diluted or mixed with other chemicals, in order to avoid any negative influences on the active ingredient(s).

Minimum shelf life: 18 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

Nucleophiles

### **Hazardous decomposition products:**

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

# 11 Toxicological information

#### Acute toxicity:

reductionally.		
LD/LC50 values that are relevant for classification		
Oral	LD50	4467 mg/Kg (rat)
Dermal	LD50	>5000 mg/Kg (rat)

#### Primary irritant effect:

On the skin: Caustic effect on skin and mucous membranes.



Material Safety	Page: 8/12
Data Sheet	Revision Nr: 0
	Date: 22/03/2011
Solcide P 112	Supersedes: 0/0/00

On the eye: Strong caustic effect

Sensitization:

Sensitization possible by skin contact.

Sub-acute to chronic toxicity:

Non mutagenic (Ames-test OECD 471: In vitro genmutation study in bacteria).

Non teratogenic (OECD 414 / EPA 83-3 a).

# **12 Ecological information:**

Aquatic toxicity:	
EC50 / 48 hrs	8 mg/l (Daphnia)
IC50 72 hrs	1.67 mg/l (Selenastrum capricornutum)
LC50 / 96 hrs	14.8 mg/l (rainbow trout)

#### Persistence and degradability

Method OECD 301 D (closed-Bottle Test)

**Analysing Method** Oxygen Demand

<u>Degree of elimination:</u> The product ingredients can be readily eliminated in the sewage system.

**Biodegradability:** 

Degree of biological degradability: >60%

The components are readily biodegradable

#### Behaviour in environmental systems:

Bioaccumulative potential:

Due to the distribution coefficient n-octanol/water an accumulation in organisms is not expected.

Log Kow -0.71 - +0.75; CIT/MIT

#### **Ecotoxicological effects:**

Behaviour in sewage processing plants		
55965-84-9 mixture of: 5-chloro-2methyl-4isotiazolin-3-one and 2-methyl-2H-		
isothiazol -3-one (3:1)		
EC50	7.9 mg/l (Activated Sludge)	
	OECD 209	

#### Remark:

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



Material Safety	Page: 9/12
Data Sheet	Revision Nr: 0
	Date: 22/03/2011
Solcide P 112	Supersedes: 0/0/00

#### Additional ecological information:

#### AOX-indication:

Can affect the AOX-value of the effluent water. The active ingredient is not persistent; it is degraded under separation of the chlorine atom.

Calculated AOX value: 0.26%

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: This mixture does not contain substances that meet the PBT criteria of REACH

annex XIII

vPvB This mixture does not contain substances that meet the vPvB criteria of REACH

annex XIII

# 13 Disposal considerations:

#### **Product:**

#### 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.



Material Safety	Page: 10/12
Data Sheet	Revision Nr: 0
	Date: 22/03/2011
Solcide P 112	Supersedes: 0/0/00

# **14 Transport information:**

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



ADR / RID Class: 8 (C3) Corrosive substances.

Kemler Number:80UN-Number:3265Packaging group:IIILabel8

<u>Designation of goods:</u> 3265 CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

(Mixture containing 5-Chloro-2-methyl-isothiazol-3-one and 2-

Methyl -2H-isothiazol-3-one (3:1))

Tunnel restriction code E

**Maritime transport IMDG:** 



IMDG Class:8UN Number:3265Label8Packing groupIIIEMS Number:F-A, S-BMarine Pollutant:NoSegregation groups:Acids

Correct technical name: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Mixture

containing 5-Chloro-2-methyl-isothiazol-3-one and 2-Methyl -

2H-isothiazol-3-one (3:1))

# Air transport ICAO-TI and IATA-DGR:



 ICAO/IATA Class:
 8

 UN/ID Number:
 3265

 Label:
 8



Material Safety	Page: 11/12
Data Sheet	Revision Nr: 0
	Date: 22/03/2011
Solcide P 112	Supersedes: 0/0/00

Packing Group: III

<u>Correct technical name:</u> CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (Mixture

containing 5-Chloro-2-methyl-isothiazol-3-one and 2-Methyl-

2H-isothiazol-3-one (3:1))

Remarks: Packing Instruction / Max. net weight

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

<u>Special precautions for user</u> Warning: Corrosive substances.

# 15 Regulatory information

#### Designation according to EC guidelines:

Identity of biocidal active substance according to EC directive 98/8/EC:

Mixture, containing 5-Chloro-2-methyl-2H-isothiazol-3-one and 2-Methyl-2H-isothiazol-3-one (3:1)

#### **National regulations**

<u>Information about limitation of use:</u>

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) This substance/mixture is not subject to ordinance on industrial accidents (substance list, Annex I).

<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.

PCS-no. (IRL): 93755

<u>Chemical safety assessment:</u> 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.

# R-phrases relevant to the product's hazardous ingredients:

Toxic by inhalation, in contact with skin and if swallowed.

34 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



Material Safety	Page: 12/12
Data Sheet	Revision Nr: 0
	Date: 22/03/2011
Solcide P 112	Supersedes: 0/0/00

<u>Training hints</u>
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