# 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Diphenyl selenide Product name

## 2. HAZARDS IDENTIFICATION

Classification of the substance or mixture According to Regulation (EC) No1272/2008

Acute toxicity, Inhalation (Category 3) Acute toxicity, Oral (Category 4) Acute aquatic toxicity (Category 1)

According to European Directive 67/548/EEC as amended.

Toxic by inhalation and if swallowed. Danger of cumulative effects. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements Pictogram

Hazard statement(s)

Signal word

H302 H331

Harmful if swallowed. Toxic if inhaled. H400 Very toxic to aquatic life. Precautionary statement(s)

P273

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. Avoid release to the environment.

P311

Call a POISON CENTER or doctor/physician. Hazard symbol(s)

Danger

Toxic N Dangerous for the environment

sheets.

R23/25R33

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

R50/53

R-phrase(s)

S-phrase(s) When using do not eat, drink or smoke. After contact with skin, wash immediately with plenty of soap and water. S20/21S28

Danger of cumulative effects.

Toxic by inhalation and if swallowed.

In case of accident or if you feel unwell, seek medical advice immediately S45 (show the label where possible). This material and its container must be disposed of as hazardous waste.

S60 S61 Avoid release to the environment. Refer to special instructions/ Safety data

Other hazards - none 3. COMPOSITION/INFORMATION ON INGREDIENTS Formula C12H10Se Molecular Weight 233,17 g/mol

CAS-No.

## EC-No. Diphenyl selenide

1132-39-4 214-474-3

T, N, R23/25 - R33 - R50/53 For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification

H400

Acute Tox. 3; Acute Tox. 4; Aquatic Acute 1; H302, H331, Concentration

4. FIRST AID MEASURES

General advice Consult a physician. Show this safety data sheet to the doctor in attendance.

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

If inhaled

In case of eye contact Flush eyes with water as a precaution.

Wear self contained breathing apparatus for fire fighting if necessary.

If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### 6. ACCIDENTAL RELEASE MEASURES Personal precautions

personnel to safe areas.

containers for disposal.

**Environmental precautions** 

Precautions for safe handling

5. FIRE-FIGHTING MEASURES

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate

Methods and materials for containment and cleaning up

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Special protective equipment for fire-fighters

7. HANDLING AND STORAGE

Normal measures for preventive fire protection. **Conditions for safe storage** Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully

# Personal protective equipment

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

standards such as NIOSH (US) or CEN (EU).

resealed and kept upright to prevent leakage.

Recommended storage temperature: 2 - 8 °C

#### Hand protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without

Respiratory protection

after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Eye protection Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with

multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government

to the concentration and amount of the dangerous substance at the specific workplace. Hygiene measures

**Appearance** 

Safety data

pН

Melting point

Boiling point

Flash point

Upper explosion limit

Skin and body protection

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. 9. PHYSICAL AND CHEMICAL PROPERTIES

Complete suit protecting against chemicals, The type of protective equipment must be selected according

Form liquid Colour brown

no data available

no data available

115 - 117 °C - lit.

no data available

no data available

1,338 g/cm3 at 25 °C

> 110 °C - closed cup

#### Ignition temperature no data available Lower explosion limit no data available

Water solubility 10. STABILITY AND REACTIVITY

Chemical stability

no data available

no data available

no data available

no data available

Carcinogenicity

no data available

no data available

Skin

Eyes

emotional instability.

**Toxicity** 

**Additional Information** RTECS: Not available

12. ECOLOGICAL INFORMATION

**Bioaccumulative potential** 

no data available

Mobility in soil no data available

**Product** 

**Aspiration hazard** no data available

Germ cell mutagenicity

Density

**Conditions to avoid** no data available Materials to avoid Strong oxidizing agents

Stable under recommended storage conditions.

Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known. 11. TOXICOLOGICAL INFORMATION **Acute toxicity** LD50 Oral - rat - 360 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Lungs, Thorax, or Respiration:Dyspnea. Nutritional and Gross Metabolic: Changes in: Other changes. Skin corrosion/irritation

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Reproductive toxicity no data available

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure

Toxic if inhaled. May cause respiratory tract irritation.

Acute selenium poisoning produces central nervous system effects, which include nervousness, convulsions,

contact with selenium compounds may cause garlic odor of breath and sweat, dermatitis, and moderate

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional

Packing group: III Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diphenyl selenide)

Packing group: III

Packing group: III

EMS-No: F-A, S-F

May be harmful if absorbed through skin. May cause skin irritation.

Harmful if swallowed.

May cause eye irritation.

Serious eye damage/eye irritation

Respiratory or skin sensitization

Potential health effects Inhalation Ingestion

and drowsiness. Other signs of intoxication can include skin eruptions, lassitude, gastrointestinal distress, teeth that are discolored or decayed, odorous ("garlic") breath, and partial loss of hair and nails. Chronic exposure by inhalation can produce symptoms that include pallor, coating of the tongue, anemia, irritation of the mucosa, lumbar pain, liver and spleen damage, as well as any of the other previously mentioned symptoms. Chronic

Signs and Symptoms of Exposure

no data available Persistence and degradability no data available

PBT and vPvB assessment no data available Other adverse effects

Very toxic to aquatic life.

13. DISPOSAL CONSIDERATIONS

waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION ADR/RID

UN-Number: 3082 Class: 9

Contaminated packaging

Dispose of as unused product.

**IMDG** UN-Number: 3082 Class: 9 Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diphenyl selenide) Marine pollutant: Marine pollutant

**IATA** UN-Number: 3082 Class: 9 Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Diphenyl selenide)

**Further information** EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids or > 5kg for solids.

Acute Tox. Acute toxicity Aquatic Acute Acute aquatic toxicity Harmful if swallowed.

Toxic if inhaled. H400 Very toxic to aquatic life. Dangerous for the environment N T Toxic

Toxic by inhalation and if swallowed. Danger of cumulative effects. R50/53Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. **Further information** 

> WARRANTY: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lookchem shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice

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or packing slip for additional terms and conditions of sale.

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

16. OTHER INFORMATION

Text of H-code(s) and R-phrase(s) mentioned in Section 3

H302 H331

R23/25 R33

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