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

Allyl disulfide Product name

Classification of the substance or mixture

2. HAZARDS IDENTIFICATION

According to Regulation (EC) No1272/2008 Acute toxicity, Oral (Category 3) Skin irritation (Category 2) Eye irritation (Category 2)

Specific target organ toxicity - single exposure (Category 3) According to European Directive 67/548/EEC as amended. Harmful if swallowed. Irritating to eyes, respiratory system and skin.

Pictogram

Label elements

Signal word

Danger

Hazard statement(s)

H301

H315 Causes skin irritation. Causes serious eye irritation. H319 H335

P261

May cause respiratory irritation. Precautionary statement(s)

P305 + P351 + P338

Avoid breathing dust/fume/gas/mist/vapours/spray. P301 + P310IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Hazard symbol(s) Harmful Xn

Harmful if swallowed.

seek medical advice.

Diallyl disulfide

C6H10S2

146,27 g/mol

IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

Classification

Acute Tox. 3; Skin Irrit. 2; Eye

Irrit. 2; STOT SE 3; H301,

H315, H319, H335

Concentration

contact lenses, if present and easy to do. Continue rinsing.

Irritating to eyes, respiratory system and skin.

Toxic if swallowed.

R-phrase(s) R22

R36/37/38

S-phrase(s) S26 In case of contact with eyes, rinse immediately with plenty of water and

S36/37/39

Other hazards Stench.

3. COMPOSITION/INFORMATION ON INGREDIENTS Synonyms Formula

Molecular Weight

CAS-No. EC-No. Diallyl disulphide 2179-57-9 218-548-6

Xn, R22 - R36/37/38 For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES General advice

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

If inhaled 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. Consult a physician.

In case of eye contact

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

5. FIRE-FIGHTING MEASURES

If swallowed

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

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Special protective equipment for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES **Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Do not let product enter drains. Methods and materials for containment and cleaning up

Environmental precautions

7. HANDLING AND STORAGE

containers for disposal.

Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are

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

charge. **Conditions for safe storage**

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

opened must be carefully resealed and kept upright to prevent leakage.

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

Hand protection The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the

standard EN 374 derived from it.

Recommended storage temperature: 2 - 8 °C

Personal protective equipment

Respiratory protection

Handle with gloves.

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

Eye protection Face shield and safety glasses

Skin and body protection Choose body protection according to the amount and concentration of the dangerous substance at the work place. Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at

Appearance Form

Odour

Safety data

pН

9. PHYSICAL AND CHEMICAL PROPERTIES

liquid

Stench.

no data available

62 °C - closed cup

no data available

no data available

no data available

no data available

1,008 g/cm3 at 25 °C

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as

May be harmful if inhaled. Causes respiratory tract irritation.

Packing group: III

Packing group: III

Packing group: III

EMS-No: F-A, S-A

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

probable, possible or confirmed human carcinogen by IARC.

Harmful if swallowed.

Causes eye irritation.

physical, and toxicological properties have not been thoroughly investigated.

Cough, Shortness of breath, Headache, Nausea, Vomiting, To the best of our knowledge, the chemical,

1 hPa at 20 °C

the end of workday.

no data available Melting point 180 - 195 °C - lit. Boiling point

Flash point Ignition temperature Lower explosion limit

Upper explosion limit

Vapour pressure

Water solubility

Density

Relative vapour 5,05 - (Air = 1.0)density 10. STABILITY AND REACTIVITY Chemical stability Stable under recommended storage conditions. **Conditions to avoid** no data available Materials to avoid Strong oxidizing agents Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, Sulphur oxides 11. TOXICOLOGICAL INFORMATION **Acute toxicity** LD50 Oral - rat - 260 mg/kg

Respiratory or skin sensitization no data available Germ cell mutagenicity

Sister chromatid exchange

Cytogenetic analysis

Carcinogenicity

no data available

no data available

Inhalation

Ingestion

Skin

Eyes

Toxicity

no data available

no data available

Mobility in soil no data available

no data available

no data available

Other adverse effects

LD50 Dermal - rabbit - 3.600 mg/kg

Serious eye damage/eye irritation

Genotoxicity in vitro - Hamster - ovary

Genotoxicity in vitro - Hamster - ovary

Skin corrosion/irritation

no data available

no data available

Specific target organ toxicity - single exposure Inhalation - May cause respiratory irritation. Specific target organ toxicity - repeated exposure

Reproductive toxicity

Aspiration hazard no data available Potential health effects

Additional Information RTECS: BB1000000

12. ECOLOGICAL INFORMATION

Persistence and degradability

PBT and vPvB assessment

13. DISPOSAL CONSIDERATIONS

Contaminated packaging Dispose of as unused product.

UN-Number: 2810 Class: 6.1

UN-Number: 2810 Class: 6.1

Marine pollutant: No

IMDG

Signs and Symptoms of Exposure

Bioaccumulative potential no data available

Product This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Contact a licensed professional

waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION ADR/RID

IATA UN-Number: 2810 Class: 6.1 Proper shipping name: Toxic liquid, organic n.o.s. (Diallyl disulphide)

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 Acute Tox. Acute toxicity Eye irritation Eye Irrit.

H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Harmful if swallowed.

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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

or packing slip for additional terms and conditions of sale.

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

Toxic if swallowed. H301 Skin Irrit. Skin irritation Harmful Xn R22

R36/37/38 Irritating to eyes, respiratory system and skin. **Further information** For R&D use only. Not for drug, household or other uses. WARRANTY:

Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. (Diallyl disulphide)

Proper shipping name: TOXIC LIQUID, ORGANIC, N.O.S. (Diallyl disulphide)