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

Product name : Fumarin

2. HAZARDS IDENTIFICATION

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

Specific target organ toxicity - repeated exposure (Category 1)

Chronic aquatic toxicity (Category 3) Acute toxicity, Oral (Category 3)

According to European Directive 67/548/EEC as amended. Toxic if swallowed. Toxic: danger of serious damage to health by prolonged exposure if swallowed. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements

Pictogram

Signal word Danger Hazard statement(s)

H372

Toxic if swallowed. H301 Harmful to aquatic life with long lasting effects. H412

Causes damage to organs through prolonged or repeated exposure.

Harmful to aquatic organisms, may cause long-term adverse effects in the

Classification

H412

STOT RE 1; Aquatic Chronic 3; Acute Tox. 3; H372, H301, Concentration

Precautionary statement(s) Avoid release to the environment.

P273

IF SWALLOWED: Immediately call a POISON CENTER or P301 + P310doctor/physician.

Get medical advice/attention if you feel unwell. P314

Hazard symbol(s) Toxic

R-phrase(s) R25

Toxic if swallowed. R48/25 Toxic: danger of serious damage to health by prolonged exposure if swallowed.

aquatic environment. S-phrase(s)

Wear suitable gloves. In case of accident or if you feel unwell, seek medical advice immediately

S45

Formula

S37

R52/53

(show the label where possible). S61

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

Other hazards - none 3. COMPOSITION/INFORMATION ON INGREDIENTS

C17H14O5

298,3 g/mol

Molecular Weight

CAS-No. EC-No.

Fumarin 117-52-2 204-195-5

T, R25 - R48/25 - R52/53 For the full text of the H-Statements mentioned in this Section, see Section 16.

4. FIRST AID MEASURES General advice

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

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.

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

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

If swallowed

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

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

Suitable extinguishing media

5. FIRE-FIGHTING MEASURES

6. ACCIDENTAL RELEASE MEASURES Personal precautions

environment must be avoided.

Evacuate personnel to safe areas.

Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation.

Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

Precautions for safe handling Avoid formation of dust and aerosols.

Conditions for safe storage Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

protection.

7. HANDLING AND STORAGE

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator

type N99 (US) or type P2 (EN 143) 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 standards such as NIOSH (US) or CEN

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

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire

(EU). Hand protection

Handle with gloves. Eye protection

Hygiene measures

Ignition temperature

Lower explosion limit

Upper explosion limit

work place.

product.

Form

Safety data

рН

standard EN 374 derived from it.

Face shield and safety glasses Skin and body protection Choose body protection according to the amount and concentration of the dangerous substance at the

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the

9. PHYSICAL AND CHEMICAL PROPERTIES **Appearance**

solid

no data available

no data available

no data available

no data available

Melting point no data available Boiling point no data available Flash point > 212,00 °C - closed cup

Water solubility insoluble 10. STABILITY AND REACTIVITY Chemical stability Stable under recommended storage conditions. Conditions to avoid no data available Materials to avoid no data available

Serious eye damage/eye irritation no data available

Respiratory or skin sensitization

LD50 Oral - rat - 25 mg/kg

Skin corrosion/irritation

Hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

no data available

Acute toxicity

no data available

no data available

Germ cell mutagenicity no data available Carcinogenicity 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

no data available

As piration hazard

Inhalation Ingestion

Skin

Eyes

Hemorrhage.

Toxicity

no data available

no data available

no data available

Mobility in soil no data available

no data available

Product

IMDG

T

R25

R48/25

R52/53

Further information

Additional Information

no data available Potential health effects May be harmful if inhaled. May cause respiratory tract irritation.

Signs and Symptoms of Exposure

Persistence and degradability

Bioaccumulative potential

PBT and vPvB assessment

13. DISPOSAL CONSIDERATIONS

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure

Ingestion - Causes damage to organs through prolonged or repeated exposure.

Toxic if swallowed.

May cause eye irritation.

RTECS: GN4850000 12. ECOLOGICAL INFORMATION

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste

disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn

Packing group: II

Packing group: II

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

Other adverse effects Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging Dispose of as unused product.

ADR/RID UN-Number: 2811 Class: 6.1 Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Fumarin)

UN-Number: 2811 Class: 6.1

14. TRANSPORT INFORMATION

Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (Fumarin) Marine pollutant: No **IATA**

Toxic

Toxic if swallowed.

environment.

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

15. REGULATORY INFORMATION

UN-Number: 2811 Class: 6.1 Packing group: II Proper shipping name: Toxic solid, organic, n.o.s. (Fumarin)

16. OTHER INFORMATION Text of H-code(s) and R-phrase(s) mentioned in Section 3 Acute Tox.

Acute toxicity Aquatic Chronic Chronic aquatic toxicity Toxic if swallowed. H301

Causes damage to organs through prolonged or repeated exposure. H372H412 Harmful to aquatic life with long lasting effects. STOT RE Specific target organ toxicity - repeated exposure

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used only as a guide. The information in this document is based on the present state of our

Toxic: danger of serious damage to health by prolonged exposure if swallowed.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

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 or packing slip for additional terms and conditions of sale.

EMS-No: F-A, S-A