2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

According to Regulation (EC) No1272/2008 Acute toxicity, Oral (Category 4)

Eye irritation (Category 2) According to European Directive 67/548/EEC as amended.

Harmful if swallowed. May cause long-term adverse effects in the aquatic environment. Toxic to soil organisms. Toxic to bees.

Warning

Harmful

Label elements

Pictogram

Signal word

Hazard statement(s) Harmful if swallowed.

H302 H319

Causes serious eye irritation. Precautionary statement(s)

P305 + P351 + P338IF IN EYES: Rinse cautiously with water for several minutes. Remove

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

Hazard symbol(s) Xn

N

R-phrase(s)

R22 Harmful if swallowed. R53 May cause long-term adverse effects in the aquatic environment.

Toxic to soil organisms. R56

R57 Toxic to bees. S-phrase(s)

Dangerous for the environment

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

Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS 1-Methyl-2-nitro-3-[(3-tetrahydrofuryl)methyl]guanidine

Synonyms (RS)-N-Methyl-N'-nitro-N"-[(tetrahydro-3-furanyl)methyl]guanidine

Formula C7H14N4O3

EC-No.

1-Methyl-2-nitro-3-[(3-tetrahydrofuryl)methyl]guanidine

Molecular Weight 202,21 g/mol

165252-70-0 Acute Tox. 4; Eye Irrit. 2; H302, H319 Xn, N, R22 - R53 - R56 - R57

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

Classification

Concentration

In case of skin contact

In case of eye contact

Suitable extinguishing media

4. FIRST AID MEASURES

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

If inhaled

CAS-No.

Wash off with soap and plenty of water. Consult a physician.

Wear self contained breathing apparatus for fire fighting if necessary.

For the full text of the H-Statements mentioned in this Section, see Section 16.

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

5. FIRE-FIGHTING MEASURES

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

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special protective equipment for fire-fighters

Use personal protective equipment. Avoid dust formation. Avoid breathing dust. Ensure adequate ventilation. **Environmental precautions** Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the

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

environment must be avoided.

7. HANDLING AND STORAGE

Precautions for safe handling

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire

protection. **Conditions for safe storage**

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

8. EXPOSURE CONTROLS/PERSONAL PROTECTION Personal protective equipment

Light sensitive. Store under inert gas.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Skin and body protection

Hand protection

Respiratory protection

Handle with gloves. Eye protection

Safety glasses with side-shields conforming to EN166

crystalline

no data available

no data available

no data available

no data available

white

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

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

Where risk assessment shows air-purifying respirators are appropriate use a dust mask type N95 (US) or

type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate

9. PHYSICAL AND CHEMICAL PROPERTIES **Appearance**

the end of workday.

Form

Colour

Boiling point

Flash point

Conditions to avoid Exposure to sunlight.

Materials to avoid Strong oxidizing agents

Acute toxicity

Ignition temperature

Lower explosion limit

Safety data

no data available рΗ 106 - 111 °C Melting point

Upper explosion limit no data available Water solubility 39,8 g/l at 20 °C Partition coefficient: log Pow: -0,549 at 25 °C n-octanol/water Solubility 19 g/l Ethanol 57 g/l Methanol 10. STABILITY AND REACTIVITY Chemical stability

Stable under recommended storage conditions.

LD50 Oral - rat - male - 2.804 mg/kg LD50 Oral - rat - female - 2.000 mg/kg LD50 Dermal - rat - > 2.000 mg/kg

Skin - rabbit - Mild skin irritation

Serious eye damage/eye irritation

Skin corrosion/irritation

Germ cell mutagenicity

Reproductive toxicity

no data available

Carcinogenicity

no data available

Eyes

Toxicity

Additional Information RTECS: no data available

Toxicity to fish

Toxicity to algae

Biodegradability

no data available

no data available

Product

ADR/RID

Other adverse effects

13. DISPOSAL CONSIDERATIONS

Dispose of as unused product.

14. TRANSPORT INFORMATION

Bioaccumulative potential

Persistence and degradability

12. ECOLOGICAL INFORMATION

Hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

Eyes - rabbit - Mild eye irritation Respiratory or skin sensitization guinea pig - Did not cause sensitization on laboratory animals.

probable, possible or confirmed human carcinogen by IARC.

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

Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

no data available Specific target organ toxicity - repeated exposure no data available Aspiration hazard no data available Potential health effects Inhalation May be harmful if inhaled. May cause respiratory tract irritation. **Ingestion** Harmful if swallowed. May be harmful if absorbed through skin. May cause skin irritation. Skin

Specific target organ toxicity - single exposure

Toxicity to daphnia EC50 - Daphnia - > 1.000 mg/l - 48 h and other aquatic invertebrates.

LC50 - Crangon crangon (shrimp) - 0,79 mg/l - 96 h

LC50 - other fish - 4,84 mg/l - 48 h

LC50 - Lepomis macrochirus (Bluegill) - > 1.000 mg/l - 96 h

EbC50 - Pseudokirchneriella subcapitata (green algae) - > 100 mg/l - 72 h

Remarks: According to the results of tests of biodegradability this product is not

May cause eye irritation.

Mobility in soil no data available PBT and vPvB assessment

aerobic

readily biodegradable.

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 in a chemical incinerator equipped with an afterburner and scrubber. **Contaminated packaging**

May cause long-term adverse effects in the aquatic environment. Toxic to bees. Toxic to soil organisms.

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

Eye Irrit.

Further information

H302

H319

N

16. OTHER INFORMATION

Not dangerous goods **IMDG** Not dangerous goods **IATA**

Not dangerous goods

15. REGULATORY INFORMATION

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

Harmful Xn Harmful if swallowed. R22 R53 May cause long-term adverse effects in the aquatic environment. R56 Toxic to soil organisms. R57 Toxic to bees.

Acute toxicity

Harmful if swallowed.

Causes serious eye irritation.

Dangerous for the environment

Eye irritation

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 www.lookchem.com 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.

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