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

Product name 4-Nitrophenyl isocyanate

2. HAZARDS IDENTIFICATION

According to Regulation (EC) No1272/2008

Classification of the substance or mixture

Acute toxicity, Inhalation (Category 4) Acute toxicity, Oral (Category 4) Skin irritation (Category 2) Eye irritation (Category 2)

Respiratory sensitization (Category 1) Specific target organ toxicity - single exposure (Category 3)

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

Harmful by inhalation, in contact with skin and if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitization by inhalation.

Label elements

Pictogram

Signal word

Hazard statement(s)

Danger

Harmful if swallowed. H302 H315 H319

Causes skin irritation. Causes serious eye irritation. H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.

May cause respiratory irritation. H335 Precautionary statement(s)

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.

IF IN EYES: Rinse cautiously with water for several minutes. Remove P305 + P351 + P338contact lenses, if present and easy to do. Continue rinsing.

P342 + P311

If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

Hazard symbol(s) Harmful Xn

R-phrase(s) Harmful by inhalation, in contact with skin and if swallowed. R20/21/22

R36/37/38 R42

May cause sensitization by inhalation. S-phrase(s)

S22 Do not breathe dust. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S36/37/39 S45

(show the label where possible). Other hazards

Irritating to eyes, respiratory system and skin.

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

Classification

Acute Tox. 4; Skin Irrit. 2; Eye Irrit. 2; Resp. Sens. 1; STOT

Concentration

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

Lachrymator. 3. COMPOSITION/INFORMATION ON INGREDIENTS

C7H4N2O3

: 164,12 g/mol

CAS-No.

Molecular Weight

Formula

4-Nitrophenyl isocyanate 100-28-7 202-836-3

EC-No.

SE 3; H302, H315, H319, H332, H334, H335 Xn, R20/21/22 - R36/37/38 -

R42 For the full text of the H-Statements mentioned in this Section, see Section 16.

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.

Wash off with soap and plenty of water. Consult a physician. In case of eye contact

In case of skin contact

5. FIRE-FIGHTING MEASURES

Personal precautions

4. FIRST AID MEASURES

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

If swallowed

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

Wear self contained breathing apparatus for fire fighting if necessary.

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

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

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

Environmental precautions Do not let product enter drains.

7. HANDLING AND STORAGE

Conditions for safe storage

protection.

6. ACCIDENTAL RELEASE MEASURES

Special protective equipment for fire-fighters

Precautions for safe handling Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Recommended storage temperature: 2 - 8 °C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION Personal protective equipment

type P1 (EN 143) respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). 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.

Moisture sensitive. Store under inert gas.

Respiratory protection

Handle with gloves. Eye protection

Face shield and safety glasses

Hygiene measures

Appearance

Safety data

pН

Melting point

Boiling point

Flash point

Ignition temperature

10. STABILITY AND REACTIVITY

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

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

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. 9. PHYSICAL AND CHEMICAL PROPERTIES

crystalline Form Colour yellow

no data available

56 - 59 °C - lit.

no data available

no data available

137 - 138 °C at 15 hPa - lit.

no data available Lower explosion limit no data available Upper explosion limit Water solubility no data available

Chemical stability Stable under recommended storage conditions. **Conditions to avoid**

Avoid moisture. Materials to avoid Strong oxidizing agents

LD50 Dermal - guinea pig - 10.000 mg/kg

Serious eye damage/eye irritation

Respiratory or skin sensitization

May cause allergic respiratory reaction.

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure

Cough, Shortness of breath, Headache, Nausea, Vomiting

Inhalation - May cause respiratory irritation.

Skin corrosion/irritation

Germ cell mutagenicity

Reproductive toxicity

no data available

Skin Eyes

Toxicity

no data available

no data available

no data available

Aspiration hazard no data available

Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx) 11. TOXICOLOGICAL INFORMATION **Acute toxicity** LD50 Oral - rat - 1.600 mg/kg Remarks: Behavioral:Muscle weakness. Behavioral:Ataxia.

Remarks: Prolonged skin contact may cause skin irritation and/or dermatitis.

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.

Harmful if inhaled. Causes respiratory tract irritation.

Harmful if absorbed through skin. Causes skin irritation.

Harmful if swallowed.

Causes eye irritation.

Potential health effects Inhalation Ingestion

Additional Information RTECS: DA3692500 12. ECOLOGICAL INFORMATION

Signs and Symptoms of Exposure

Persistence and degradability

Bioaccumulative potential

Mobility in soil no data available PBT and vPvB assessment no data available

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

Dispose of as unused product.

14. TRANSPORT INFORMATION

13. DISPOSAL CONSIDERATIONS

Other adverse effects

no data available

Product

ADR/RID

Not dangerous goods **IMDG** Not dangerous goods

Resp. Sens.

Skin Irrit.

R20/21/22

R36/37/38

Further information

Xn

R42

IATA UN-Number: 3335 Class: 9 Proper shipping name: Aviation regulated solid, n.o.s. (4-Nitrophenyl isocyanate)

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 Irrit. Eye irritation H302 Harmful if swallowed.

H315 Causes skin irritation.

Skin irritation

Harmful

H319

Causes serious eye irritation.

Respiratory sensitization

H332 Harmful if inhaled. H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 May cause respiratory irritation.

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

For R&D use only. Not for drug, household or other uses.

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

Irritating to eyes, respiratory system and skin.

May cause sensitization by inhalation.

WARRANTY:

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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