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

Product name 1-Chloro-3-nitrobenzene

2. HAZARDS IDENTIFICATION

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

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

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

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

Label elements

Warning

Pictogram

Signal word

Hazard statement(s) Harmful if swallowed.

H302

Very toxic to aquatic life. H400 Precautionary statement(s)

P273 Avoid release to the environment.

Xn

Hazard symbol(s) Harmful

N

Dangerous for the environment R-phrase(s)

R22

Harmful if swallowed. R50/53Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrase(s) Do not breathe dust. S22

S24/25

Formula

121-73-3

If inhaled

Avoid contact with skin and eyes. S60 This material and its container must be disposed of as hazardous waste. S61 Avoid release to the environment. Refer to special instructions/ Safety data

sheets.

Other hazards - none 3. COMPOSITION/INFORMATION ON INGREDIENTS

C6H4CINO2

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

Molecular Weight 157,55 g/mol

EC-No. CAS-No. 1-Chloro-3-nitrobenzene

204-496-1

1; H302, H400 Xn, N, R22 - R50/53 For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification

Acute Tox. 4; Aquatic Acute

Concentration

In case of eye contact

4. FIRST AID MEASURES General advice

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.

Special protective equipment for fire-fighters

Flush eyes with water as a precaution.

If swallowed

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

Wear self contained breathing apparatus for fire fighting if necessary.

Environmental precautions

7. HANDLING AND STORAGE

protection.

Precautions for safe handling

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Personal precautions Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure

adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

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

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

6. ACCIDENTAL RELEASE MEASURES

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

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

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level

and components tested and approved under appropriate government standards such as NIOSH (US) or

protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators

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

Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

CEN (EU). Hand protection

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Skin and body protection

Personal protective equipment

Respiratory protection

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

standard EN 374 derived from it. Eve protection Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

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

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

crystalline

no data available

no data available

no data available

1,534 g/cm3 at 25 °C

43 - 47 °C - lit.

236 °C - lit.

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

Appearance

Form

рΗ

Melting point

Boiling point

Density

Hydrogen chloride gas

Acute toxicity

no data available

no data available

no data available

11. TOXICOLOGICAL INFORMATION

Serious eye damage/eye irritation

Respiratory or skin sensitization

LD50 Oral - rat - 420 mg/kg

Skin corrosion/irritation

Germ cell mutagenicity

Reproductive toxicity

Potential health effects

Inhalation

Ingestion

Skin

Eyes

Toxicity

no data available

no data available

Lower explosion limit

Upper explosion limit

Hygiene measures

Colour light yellow Safety data

115 °C - closed cup Flash point 260 °C Ignition temperature

9. PHYSICAL AND CHEMICAL PROPERTIES

Water solubility no data available 10. STABILITY AND REACTIVITY Chemical stability Stable under recommended storage conditions. Conditions to avoid no data available Materials to avoid Strong oxidizing agents, Strong bases, Strong reducing agents Hazardous decomposition products

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

May be harmful if inhaled. May cause respiratory tract irritation.

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

LC50 - Pimephales promelas (fathead minnow) - 18 mg/l - 96,0 h

EC50 - Daphnia magna (Water flea) - 4,5 mg/l - 48 h

Oncorhynchus mykiss (rainbow trout) - 36 d

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent

Packing group: II

Packing group: II

Packing group: II

EMS-No: F-A, S-A

The above information is believed to be correct but does not purport to be all inclusive and shall be

and burn in a chemical incinerator equipped with an afterburner and scrubber.

Proper shipping name: CHLORONITROBENZENES, SOLID

Proper shipping name: CHLORONITROBENZENES, SOLID

Bioconcentration factor (BCF): 91

probable, possible or confirmed human carcinogen by IARC.

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

no data available Aspiration hazard no data available

Specific target organ toxicity - single exposure

Specific target organ toxicity - repeated exposure

Additional Information RTECS: CZ0940000

12. ECOLOGICAL INFORMATION

Toxicity to fish

Toxicity to daphnia

Bioaccumulative potential

PBT and vPvB assessment

13. DISPOSAL CONSIDERATIONS

Bioaccumulation

Mobility in soil no data available

no data available

Product

IMDG

Other adverse effects Very toxic to aquatic life.

and other aquatic

Signs and Symptoms of Exposure

invertebrates. Persistence and degradability

Harmful if swallowed.

and toxicological properties have not been thoroughly investigated.

May cause eye irritation.

May cause cyanosis., Nausea, Dizziness, Headache, To the best of our knowledge, the chemical, physical,

Contaminated packaging Dispose of as unused product. 14. TRANSPORT INFORMATION ADR/RID UN-Number: 1578 Class: 6.1

Marine pollutant: No

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

Acute toxicity Acute aquatic toxicity

Harmful if swallowed. Very toxic to aquatic life. Dangerous for the environment Harmful

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

WARRANTY:

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 or packing slip for additional terms and conditions of sale.

IATA UN-Number: 1578 Class: 6.1 Proper shipping name: Chloronitrobenzenes, solid

15. REGULATORY INFORMATION

UN-Number: 1578 Class: 6.1

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

Aquatic Acute H302

H400 N Xn

Acute Tox.

16. OTHER INFORMATION

R22 Harmful if swallowed. R50/53Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Further information

www.lookchem.com