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

Cyanoacetic acid Product name

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

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

Skin corrosion (Category 1B)

According to European Directive 67/548/EEC as amended. Harmful if swallowed. Contact with acids liberates toxic gas. Causes burns.

Label elements Pictogram

Danger

Harmful if swallowed.

Signal word

Hazard statement(s)

H302

H314

Causes severe skin burns and eye damage. **EUH029** Contact with water liberates toxic gas.

P280

Precautionary statement(s)

Wear protective gloves/ protective clothing/ eye protection/ face protection. P305 + P351 + P338IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310

Immediately call a POISON CENTER or doctor/physician. Hazard symbol(s) Corrosive

R-phrase(s)

R22

Harmful if swallowed. R31 Contact with acids liberates toxic gas. Causes burns.

R34

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

seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. S36/37/39

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S45 Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS Formula C3H3NO2

85,06 g/mol

Molecular Weight

CAS-No. EC-No. Cyanoacetic aci d

206-743-9 372-09-8

C, R22 - R31 - R34 For the full text of the H-Statements mentioned in this Section, see Section 16.

Classification

Acute Tox. 4; Skin Corr. 1B;

H302, H314, EUH029

Concentration

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

In case of eye contact

Suitable extinguishing media Carbon dioxide (CO2) Dry powder

6. ACCIDENTAL RELEASE MEASURES

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

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

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

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

Methods and materials for containment and cleaning up

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

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

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

If swallowed

5. FIRE-FIGHTING MEASURES

Extinguishing media which shall not be used for safety reasons Water

Personal precautions Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate

suitable, closed containers for disposal.

Precautions for safe handling

Conditions for safe storage

7. HANDLING AND STORAGE

Environmental precautions Do not let product enter drains.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Never allow product to get in contact with water during storage.

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

Pick up and arrange disposal without creating dust. Sweep up and shovel. Do not flush with water. Keep in

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

type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the

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

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

after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the

standard EN 374 derived from it.

9. PHYSICAL AND CHEMICAL PROPERTIES

2

64 - 70 °C - lit.

108 °C at 0,20 hPa - lit.

107 °C - closed cup

no data available

0,1 hPa at 100 °C

soluble

Hand protection

Eye protection

Hygiene measures

Appearance

рН

Melting point

Boiling point

Flash point

Ignition temperature

Vapour pressure

Water solubility

Materials to avoid

Acute toxicity

no data available

no data available

no data available

LD50 Oral - rat - 1.500 mg/kg

and Appendages: Other: Hair.

Skin corrosion/irritation

10. STABILITY AND REACTIVITY

(EU).

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin and body protection 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.

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

crystalline Form Colour light yellow Safety data

Remarks: Behavioral: Change in motor activity (specific assay). Lungs, Thorax, or Respiration: Dyspnea. Skin

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

mucous membranes and upper respiratory tract.

Harmful if swallowed. Causes burns.

probable, possible or confirmed human carcinogen by IARC.

Lower explosion limit no data available Upper explosion limit no data available

Chemical stability Stable under recommended storage conditions. Possibility of hazardous reactions Reacts violently with water. Conditions to avoid Avoid moisture. Exposure to moisture.

acids, Bases, Strong oxidizing agents, Strong reducing agents Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx) Thermal decomposition 166 °C 11. TOXICOLOGICAL INFORMATION

Germ cell mutagenicity no data available Carcinogenicity

Serious eye damage/eye irritation

Respiratory or skin sensitization

no data available Specific target organ toxicity - single exposure no data available

Specific target organ toxicity - repeated exposure

Cough, Shortness of breath, Headache, Nausea, Vomiting

Reproductive toxicity

no data available

no data available

Inhalation

Ingestion

Aspiration hazard

Potential health effects

Skin May be harmful if absorbed through skin. Causes skin burns. Eyes Causes eye burns. Signs and Symptoms of Exposure

RTECS: AG3675000 12. ECOLOGICAL INFORMATION **Toxicity**

Persistence and degradability

Bioaccumulative potential

Additional Information

no data available

no data available

no data available

Mobility in soil no data available

no data available

Product

IMDG

PBT and vPvB assessment no data available Other adverse effects

13. DISPOSAL CONSIDERATIONS

14. TRANSPORT INFORMATION ADR/RID

UN-Number: 3261 Class: 8

Contaminated packaging Dispose of as unused product.

UN-Number: 3261 Class: 8 Marine pollutant: No

UN-Number: 3261 Class: 8

16. OTHER INFORMATION

Proper shipping name: Corrosive solid, acidic, organic, n.o.s. (Cyanoacetic acid) 15. REGULATORY INFORMATION

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

Proper shipping name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Cyanoacetic acid)

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

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

Acute toxicity Acute Tox. **EUH029** Contact with water liberates toxic gas. H302 Harmful if swallowed.

> Causes severe skin burns and eye damage. Skin corrosion Corrosive

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

R22 Harmful if swallowed. R31

R34 Causes burns. **Further information** For R&D use only. Not for drug, household or other uses.

www.lookchem.com

Packing group: II EMS-No: F-A, S-B Proper shipping name: CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (Cyanoacetic acid) Packing group: II

May be harmful if inhaled. Material is extremely destructive to the tissue of the

H314 Skin Corr. C

Contact with acids liberates toxic gas.

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 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.