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

ProductName Dimethylzinc solution 2. HAZARDS IDENTIFICATION

Risk advice to man and the environment

Highly flammable. Reacts violently with water. Spontaneously flammable in air. Causes burns. Harmful: danger of serious damage to health by prolonged exposure through inhalation. Possible risk of harm to the unborn child. Harmful: may cause lung damage if swallowed. Vapours may cause drowsiness and dizziness. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS Formula : C2H6Zn

CAS-No. Classification Concentration EC-No. Tolue ne F, Xn, Repr.Cat.3, R11 ->= 78 - <= 80 % 203-625-9

108-88-3

544-97-8

R38 - R48/20 - R63 - R65 -R67 **Dimethylzinc**

R50/53

>= 20 - <= 22 %

208-884-1 F, C, N, R14 - R17 - R34 -

For the full text of the R-phrases mentioned in this Section, see Section 16.

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

4. FIRST AID MEASURES

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

In case of skin contact

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

physician.

In case of eye contact 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.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive

Carbon dioxide (CO2) Dry powder Extinguishing media which shall not be used for safety reasons

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

6. ACCIDENTAL RELEASE MEASURES

concentrations. Vapours can accumulate in low areas.

Personal precautions

Water

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

Methods for cleaning up Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous

7. HANDLING AND STORAGE

earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). Do not flush with water.

Avoid inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Storage Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully

Personal protective equipment

(US) or CEN (EU). Hand protection

resealed and kept upright to prevent leakage. Store in cool place.

Handling

Air sensitive. Handle and store under inert gas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) 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

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

standard EN 374 derived from it. Handle with gloves. Eye protection

Safety glasses

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

Hygiene measures Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at

the end of workday.

place.

Form

Flash point

9. PHYSICAL AND CHEMICAL PROPERTIES **Appearance**

Safety data рΗ

Ignition temperature

Lower explosion limit

Melting point no data available Boiling point no data available

Upper explosion limit no data available 0,931 g/cm3 Density Water solubility no data available 10. STABILITY AND REACTIVITY Storage stability Stable under recommended storage conditions. Conditions to avoid

liquid

no data available

-17 °C - closed cup

no data available no data available

Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, Zinc/zinc oxides Hazardous reactions

11. TOXICOLOGICAL INFORMATION

Reacts violently with water.

no data available Sensitisation

Materials to avoid

Do not allow water to enter container. Heat, flames and sparks. Exposure to moisture.

Bases, Alcohols, Reacts violently with water.

Acute toxicity no data available Irritation and corrosion

no data available Chronic exposure IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Toluene)

Signs and Symptoms of Exposure burning sensation, Cough, wheezing, laryngitis, Shortness of breath, Headache, Nausea, Vomiting

dizziness.

Elimination information (persistence and degradability)

professional waste disposal service to dispose of this material.

Causes eye burns.

enter lungs and cause damage.

Harmful if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract. Vapours may cause drowsiness and

May be harmful if swallowed. Causes burns. Aspiration hazard if swallowed - can

May be harmful if absorbed through skin. Causes skin burns.

Target Organs Bladder, Liver, Kidney, Brain., 12. ECOLOGICAL INFORMATION

13. DISPOSAL CONSIDERATIONS

Contaminated packaging Dispose of as unused product.

14. TRANSPORT INFORMATION

UN-Number: 3394 Class: 4.2 (4.3)

UN-Number: 3394 Class: 4.2 (4.3)

15. REGULATORY INFORMATION

IATA Passenger: Not permitted for transport IATA Cargo: Not permitted for transport

Marine pollutant: No

Hazard symbols

C

N

R-phrase(s) R11

R14

R17

R34

S-phrase(s) S16

S26

S45

R48/20

R50/53

R63

R65

R67

Further information

S36/37/39

R48/20

IATA

Potential Health Effects

Inhalation

Skin

Eyes

Ingestion

no data available **Ecotoxicity effects**

Product

no data available Further information on ecology Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Observe all federal, state, and local environmental regulations. Contact a licensed

Packing group: I

Packing group: I

Harmful: danger of serious damage to health by prolonged exposure through

In case of contact with eyes, rinse immediately with plenty of water and seek medical

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

Proper shipping name: ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC, WATER-REACTIVE

EMS-No: F-G, S-M

ADR/RID UN-Number: 3394 Class: 4.2 (4.3) Proper shipping name: ORGANOMETALLIC SUBSTANCE, LIQUID, PYROPHORIC, WATER-REACTIVE **IMDG**

Labelling according to EC Directives

Dangerous for the environment

Reacts violently with water.

Spontaneously flammable in air.

Keep away from sources of ignition - No smoking.

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

Proper shipping name: Organometallic substance, liquid, pyrophoric, water-reactive

Highly flammable

Highly flammable.

Causes burns.

Corrosive

R63 Possible risk of harm to the unborn child. R65 Harmful: may cause lung damage if swallowed. R67 Vapours may cause drowsiness and dizziness. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic

advice.

environment.

inhalation.

label where possible). S61 Avoid release to the environment. Refer to special instructions/ Safety data sheets. S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

108-88-3 Toluene 544-97-8 Dimethylzinc

Hazardous components which must be listed on the label:

16. OTHER INFORMATION Text of R-phrases mentioned in Section 3

Highly flammable. R14 Reacts violently with water. R17 Spontaneously flammable in air. R34 Causes burns. R38 Irritating to skin.

inhalation.

environment.

Possible risk of harm to the unborn child.

Harmful: may cause lung damage if swallowed.

Vapours may cause drowsiness and dizziness.

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

Harmful: danger of serious damage to health by prolonged exposure through

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

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 www.lookchem.com from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.