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1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
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Lithium diisopropylamide Product name

Classification of the substance or mixture

According to Regulation (EC) No1272/2008

2. HAZARDS IDENTIFICATION

Pyrophoric solids (Category 1) Substances, which in contact with water, emit flammable gases (Category 1)

Skin corrosion (Category 1C) Reproductive toxicity (Category 2)

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

Possible risk of impaired fertility. Possible risk of harm to the unborn child. Reacts violently with water,

liberating extremely flammable gases. Spontaneously flammable in air. Causes burns. Label elements

Pictogram

P223

R14/15

Synonyms

Formula

Molecular Weight

4. FIRST AID MEASURES

In case of skin contact

In case of eye contact

Suitable extinguishing media Carbon dioxide (CO2) Dry powder

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

Environmental precautions

7. HANDLING AND STORAGE

No smoking.

(EU).

Precautions for safe handling

Avoid formation of dust and aerosols.

physician.

If swallowed

General advice

4111-54-0

R17

R34

DangerDanger Signal word Hazard statement(s) H250 Catches fire spontaneously if exposed to air.

In contact with water releases flammable gases which may ignite H260 spontaneously. Causes severe skin burns and eye damage. H314

Suspected of damaging fertility or the unborn child. H361 Catches fire spontaneously if exposed to air. H250 H260 In contact with water releases flammable gases which may ignite

spontaneously. Causes severe skin burns and eye damage. H314 H361 Suspected of damaging fertility or the unborn child. **EUH014** Reacts violently with water.

Precautionary statement(s) P222 Do not allow contact with air.

P223 Keep away from any possible contact with water, because of violent

reaction and possible flash fire.

P231 + P232Handle under inert gas. Protect from moisture. P280 Wear protective gloves/protective clothing/eye protection/face protection. P222 Do not allow contact with air.

reaction and possible flash fire. P231 + P232Handle under inert gas. Protect from moisture. Wear protective gloves/protective clothing/eye protection/face protection. P280 P305 + P351 + P338IF IN EYES: Rinse cautiously with water for several minutes. Remove

Keep away from any possible contact with water, because of violent

Reacts violently with water, liberating extremely flammable gases.

Pyrophoric solid 1; Waterreact 1; Skin Corr. 1C; Repr. 2; H250, H260, H314, H361 F, C, R62 - R63 - R14/15 -

R17 - R34

Concentration

contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. P310 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for P370 + P378extinction.

P422 Store contents under inert gas. Hazard symbol(s)

Highly flammable \mathbf{C} Corrosive R-phrase(s) Possible risk of impaired fertility. R62 R63 Possible risk of harm to the unborn child.

Spontaneously flammable in air.

S-phrase(s) Keep away from sources of ignition - No smoking. S16 S26 In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

Causes burns.

Wear suitable protective clothing, gloves and eye/face protection. S36/37/39 S43 In case of fire, use sand. In case of accident or if you feel unwell, seek medical advice immediately S45 (show the label where possible).

Other hazards - none 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No. EC-No. Classification Lithium diisopropylamide

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

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

: LDA

C6H14LiN

: 107,12 g/mol

223-893-0

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

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

Do NOT induce vomiting. 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.

Extinguishing media which shall not be used for safety reasons Water **Special protective equipment for fire-fighters** Wear self contained breathing apparatus for fire fighting if necessary.

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

Methods and materials for containment and cleaning up Pick up and arrange disposal without creating dust. Do not flush with water. Keep in suitable, closed containers for disposal.

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Remove all sources of ignition. Evacuate personnel to safe areas.

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

Air sensitive. Moisture sensitive. Handle and store under inert gas.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION 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 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

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

Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition -

Hand protection Handle with gloves.

Face shield and safety glasses Skin and body protection Choose body protection according to the amount and concentration of the dangerous substance at the

solid

no data available

no data available

no data available

no data available

0,864 g/mL at 25 °C

-12 °C - closed cup

standard EN 374 derived from it.

9. PHYSICAL AND CHEMICAL PROPERTIES

Eye protection

work place.

Appearance

Form

Boiling point

Flash point

Density

Chemical stability

Ignition temperature

Lower explosion limit

Upper explosion limit

Hygiene measures

the end of workday.

Safety data no data available рΗ Melting point no data available

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

Water solubility no data available 10. STABILITY AND REACTIVITY

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

Materials to avoid acids, Strong oxidizing agents, Water Hazardous decomposition products

11. TOXICOLOGICAL INFORMATION

Skin corrosion/irritation

Germ cell mutagenicity

Reproductive toxicity

Potential health effects

Signs and Symptoms of Exposure

repeated exposure to lithium ion.

Persistence and degradability

Bioaccumulative potential

PBT and vPvB assessment

Inhalation

Ingestion

Skin

Eyes

Toxicity

no data available

no data available

no data available

Mobility in soil no data available

no data available

Product

Other adverse effects

Contaminated packaging Dispose of as unused product.

(Lithium diisopropylamide)

UN-Number: 3393 Class: 4.2 (4.3)

15. REGULATORY INFORMATION

IATA Passenger: Not permitted for transport

IATA Cargo: Not permitted for transport

Marine pollutant: No

H250

H260

H314

H361

Repr.

C

F

R17

R34

R62 R63

Further information

IATA

Heat, flames and sparks. Exposure to moisture.

Stable under recommended storage conditions.

Possibility of hazardous reactions

Reacts violently with water.

Conditions to avoid

Lithium oxides

Acute toxicity no data available

no data available

no data available

no data available

Carcinogenicity

Serious eye damage/eye irritation no data available Respiratory or skin sensitization

Specific target organ toxicity - single exposure no data available Specific target organ toxicity - repeated exposure no data available As piration hazard no data available

mucous membranes and upper respiratory tract.

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

May be harmful if swallowed. Causes burns.

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin., Inhalation may provoke the following symptoms:, spasm, inflammation and edema of the bronchi, spasm,

effects that include slurred speech, blurred vision, sensory loss, ataxia, and convulsions may occur. Diarrhea, vomiting, and neuromuscular effects such as tremor, clonus, and hyperactive reflexes may occur as a result of

inflammation and edema of the larynx, Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting., Large doses of lithium ion have caused dizziness and prostration, and can cause kidney damage if sodium intake is limited. Dehydration, weight loss, dermatological effects, and thyroid disturbances have been reported. Central nervous system

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

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

Lithium and its compounds are possible teratogens by analogy to lithium carbonate which has equivocal

probable, possible or confirmed human carcinogen by IARC.

Causes eye burns.

human teratogenic data and positive animal teratogenic data.

Additional Information RTECS: no data available 12. ECOLOGICAL INFORMATION

no data available 13. DISPOSAL CONSIDERATIONS

licensed professional waste disposal service to dispose of this material.

14. TRANSPORT INFORMATION ADR/RID UN-Number: 3393 Class: 4.2 (4.3) Packing group: I Proper shipping name: ORGANOMETALLIC SUBSTANCE, SOLID, PYROPHORIC, WATER-REACTIVE (Lithium diisopropylamide) **IMDG** UN-Number: 3393 Class: 4.2 (4.3) Packing group: I EMS-No: F-G, S-M

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

Proper shipping name: Organometallic substance, solid, pyrophoric, water-reactive (Lithium diisopropylamide)

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. 16. OTHER INFORMATION

Pyrophoric solid Pyrophoric solids Reproductive toxicity Skin Corr. Skin corrosion Substances, which in contact with water, emit flammable gases

Suspected of damaging fertility or the unborn child.

Catches fire spontaneously if exposed to air.

Causes severe skin burns and eye damage.

Water-react Corrosive Highly flammable Reacts violently with water, liberating extremely flammable gases. R14/15

Spontaneously flammable in air. Causes burns. Possible risk of impaired fertility. Possible risk of harm to the unborn child.

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

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or packing slip for additional terms and conditions of sale.

damage resulting from handling or from contact with the above product. See reverse side of invoice

In contact with water releases flammable gases which may ignite spontaneously.

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