1. Product and Company Identifaction

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Porduct Name Lithium hydride
Part Number RXSOL-19-3710-025

Company Details:

RX MARINE INTERNATIONAL 105, A wing , BSEL , TECH PARK. VASHI ,NEW BOMBAY 400703 INDIA

Branch: Kandla, Mumbai, Chennai, Vizag, Kolkata, UAE, OMAN, CANADA and KENYA

Phone +91 22 20871200 - 1400

Fax +91 22 27612100 :::AOH :0091 9821214367

 Email
 mail@rxmarine.com

 Website
 www.rxmraine.com

2. Composition / Information on ingredients

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Chemical Name Cas No EC No Whight Formula Lithium hydride 7580-67-8 231-484-3 7,95 g/mol HLi

3. Hazards Identification

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Signal Word Danger

Hazard Statements H300 + H310 Fatal if swallowed or in contact with skin.

Precautionary statements P262 Do not get in eyes, on skin, or on clothing. P280 Wear protective gloves/ protective clothing. P301 + P310 + P330 JE SWALLOWED:

gloves/ protective clothing. P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. Rinse mouth. P302 + P352 + P310 IF ON SKIN: Wash with plenty of water. Immediately call a

POISON CENTER/ doctor.

Classification of the substance or mixture Not a hazardous substance or mixture according to Regulation (EC) No

1272/2008.

Supplemental Hazard Statements None

Other hazards This substance/mixture contains no components considered to be either

persistent, bioaccumulative and toxic (PBT), or very persistent and very

bioaccumulative (vPvB) at levels of 0.1% or higher.

4. First Aid Measures

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General advice Consult a physician. Show this material 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.

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes and consult

a physician.

Swallowed Do NOT induce vomiting. Never give anything by mouth to an

unconscious person. Rinse mouth with water. Consult a physician.

Skin Contact Take off contaminated clothing and shoes immediately. Wash off with

soap and plenty of water. Take victim immediately to hospital. Consult a

physician.

Inhalation Remove patient to fresh air, keep warm and at rest and get medical

assistance in necessary.

Ingestion Rinse mouth with water. Do not induce vomiting. Never give anything by

mouth to an unconscious person. Call a doctor or Poison Control Center

immediately.

Most important symptoms and effects, both acute and delaye

The most important known symptoms and effects are described in the

labelling (see section 2.2) and/or in section 11

Indication of any immediate medical attention and special treatment

needed

products

No data available

5. Fire-fighting Measures

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Flammability May be combustible at high temperature.

Suitable extinguishing media Dry powder Dry sand
Unsuitable extinguishing media Do NOT use water jet.

Special hazards arising from the substance or mixture

Lithium oxides

Further information Use water spray to cool unopened containers.

Hazardous combustion Fire may cause the evolution of Sulphur oxides, nitrogen oxides.

Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.

Protective Equipment Use personal protective equipment.

Specific Hazards Arising from the Chemical Has a fire-promoting effect due to the release of oxygen.

Ambient fire may liberate hazardous vapours.

6. Accidental Release Measures

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Personal precautions, protective equipment and emergency procedures We

Spillage

Personal Protection

Environmental Precaution

Methods and materials for containment and cleaning

Reference to other sections

Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

Oxidizing material. Stop leak if without risk. Avoid contact with a combustible material (wood, paper, oil, clothing...). Keep substance damp using water spray. Do not touch spilled material. Prevent entry into sewers, basements or confined areas dike if needed. Eliminate all ignition sources. Call for assistance on disposal.

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert. Advice for emergency responders: Protective equipment see section 8.

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

enter drains.

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Do not flush with water. Keep in suitable, closed containers for disposal.

For disposal see section 13.

7. Handling and Storage

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Advice on protection against fire and explosion

Incompatible materials

Hygiene measures

Advice on safe handling

Conditions for safe storage, including any incompatibilities

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

Keep away from alkalis, strong oxidizing agents and metals. Provide containment walls of adequate capacity to hold any accidental spills.

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. For precautions see section 2.2.

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

Tightly closed. Dry. Keep in a well-ventilated place. Keep locked up or in

an area accessible only to qualified or authorized persons. Moisture

sensitive.

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

ventilated place. Never allow product to get in contact with water during

torage.

Storage class (TRGS 510): 4.3: Hazardous materials, which set free

flammable gases upon contact with water

Specific end use(s) Apart from the uses mentioned in section 1.2 no other specific uses are

stipulated

Advice on general occupational hygiene Advice on safe handling Observe label precautions. Change contaminated

clothing. Wash hands after working with substance.

8. Exposure controls and personal protection

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Exposure controls No specific additional engineering controls are required. Provide good

natural or artificial ventilation.

Engineering Control Handle in accordance with good industrial hygiene and safety practice.

Wash hands before breaks and at the end of workday.

Eye/face protection 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).

Body Protection Complete suit protecting against chemicals, Flame retardant protective

clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific

workplace.

Skin protection Complete suit protecting against chemicals, Flame retardant protective

clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific

workplace.

Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use

a full face respirator with multi-purpose 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 (US)

or CEN (EU).

No data available

Other Protection Measure Handle in accordance with good industrial hygiene and safety practice.

Control of environmental exposure Provide appropriate exhaust ventilation at places where dust is

formed.Keep away from sources of ignition - No smoking.

9. Physical and chemical properties

Decomposition temperature

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Physical state powder
Colour light gray

Odour No data available
Odor Threshold Not Applicable
pH No data available
Malting Point 680 °C lit

Melting Point $680 \, ^{\circ}\text{C - lit.}$ Boiling Point $97 \, ^{\circ}\text{C - lit.}$ Flash Point $6 \, ^{\circ}\text{C - closed cup}$

Evaporation Rate Not Applicable
Flammability (solid, gas) No data available
Explosive limits No Data Available
Upper/lower flammability or explosive limits No data available
Autoignition temperature No data available

Vapour pressure No data available
Viscosity No data available

Density 0.82 g/cm 3 at 25 °C - lit.

Relative Density
No data available
Specific Gravity
No data available
Partition coefficient
No data available
Explosive properties
No data available
Solubility
No data available

Ignition temperature No information available.

Particle characteristics No data available

10. Stability and reactivity

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Reactivity No data available

Chemical stability Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available

Conditions to avoid Heat, flames and sparks.

Incompatible materials Strong acids, Strong bases, Strong oxidizing agents, Strong reducing

agents

Hazardous decomposition products

In the event of fire: see section 5

11. Toxicological information

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Acute toxicity LD50 Oral - Rat - 77,5 mg/kg Inhalation: No data available Dermal: No

data available

Skin corrosion/irritation Skin - Rabbit Result: Mild skin irritation - 24 h
Serious eye damage/irritation Eyes - Rabbit Result: Moderate eye irritation - 24 h

Respiratory or skin sensitization

No data available
Carcinogenicity

No data available
Germ cell mutagenicity

No data available
Reproductive toxicity

No data available
Specific target organ toxicity - single exposure

No data available

Additional Information RTECS: UF9625000 Lung irritation, Cyanosis, Central nervous system

depression To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

12. Ecological information

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Persistence and degradability

No data available

Toxicity to fish Static test LC50 - Oncorhynchus mykiss (rainbow trout) - 75 mg/l - 96 h

(OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates Static test EC50 - Daphnia magna (Water flea) - 42,81 mg/l - 48 h

(OECD Test Guideline 202) Remarks: (in analogy to similar products) The value is given in analogy to the following substances: maleic acid

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 1.520

mg/l - 96 h

Toxicity to bacteria - 14 mg/l - 72 h Remarks: (Lit.) EC5 - E.coli - 15.000

mg/l Remarks: (Lit.) (maximum permissible toxic concentration)

Toxicity to algae Static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 74,35

mg/l - 72 h (OECD Test Guideline 201) Remarks: (in analogy to similar products) The value is given in analogy to the following substances:

maleic acid

Products Biodegradation The methods for determining the biological degradability are not

applicable to inorganic substances.

No data available

No data available

Mobility in soil

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either

persistent, bioaccumulative and toxic (PBT), or very persistent and very

bioaccumulative (vPvB) at levels of 0.1% or higher.

Endocrine disrupting properties

Other adverse effects No data available .

13. Disposal considerations

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Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Waste treatment Method

Dispose of as unused product.

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further

questions.

14. Transport information

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UN number

UN proper shipping name

Transport hazard class(es)

Packaging group

Environmental hazards

Special precautions for user

Further information

ADR/RID:1414 IMDG:1414 IATA: 1414

ADR/RID: LITHIUM HYDRIDE IMDG:LITHIUM HYDRIDE

IATA:LITHIUM HYDRIDE

ADR/RID: 4.3 IMDG: 4.3 IATA:4.3

ADR/RID: I IMDG: I IATA:I

ADR/RID: No IMDG: No IATA: No

No data available

Not classified as dangerous in the meaning of transport regulations.

15. Regulatory information

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Safety, health and environmental regulations/legislation specific for the substance or mixture

Other regulations

Chemical Safety Assessment

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

Observe work restrictions regarding maternity protection in accordance to Dir 92/85/EEC or stricter national regulations where applicable. Take note of Dir 94/33/EC on the protection of young people at work.

For this product a chemical safety assessment was not carried out

16. Other information

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Other Information

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