

SAFETY DATA SHEET (SDS)

Product Name: Lithium diisopropylamide solution
Date Prepared: Apr 28, 2023

SDS number: HS/EYBJAL001-2023
Version: A/2

Section 1 - Product and Company Identification

Product name Lithium diisopropylamide solution
Applicant name Lanzhou Hong Sheng Fine Chemical Co., LTD
Application address Room 820, strategic emerging industry hatching base, Qinchuan Garden, Lanzhou new district, Lanzhou City, Gansu Province
Applicant post code ---
Applicant fax ---
Applicant emergency number +86-13194871973
Applicant email 37048462@qq.com
Manufacturer name Lanzhou Hong Sheng Fine Chemical Co., LTD
Manufacturer address Room 820, strategic emerging industry hatching base, Qinchuan Garden, Lanzhou new district, Lanzhou City, Gansu Province
Manufacturer post code ---
Manufacturer fax ---
Manufacturer emergency number +86-13194871973
Recommended and restricted USES Used for Pharmaceutical intermediate

Section 2 – Hazards Identification

Hazard class and label elements of the substance according to GHS(the ninth revised edition):

GHS hazard class

Physical hazard	Flammable liquids	Category 2	H225
Health hazard	Acute toxicity, through the mouth	Category 5	H303
	Skin corrosion/irritation	Category 1B	H314
	Serious eye damage/eye irritation	Category 1	H318
	Carcinogenicity	Category 2	H351
	Specific target organ toxicity, single exposure;Respiratory irritation, Respiratory tract irritation	Category 3	H335
	Specific target organ system toxicity (repeated exposure),Auditory organ	Category 2	H373
	Inhalation hazard	Category 1	H304
	Acute (short-term) aquatic hazard	Category 1	H400
	Long-term aquatic hazard	Category 1	H401

Pictogram



Signal

Danger

Hazard statements

H225 Highly flammable liquid and vapour

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H303 Swallowing may be harmful。

H304 Ingestion and entry into the respiratory tract can be fatal。

H314 Causes severe skin burns and eye damage

H335 May cause respiratory irritation

H336 May cause drowsiness or dizziness。

H351 Suspected of causing cancer

H373 Organs may be damaged by prolonged or repeated exposure。

H410 highly toxic to aquatic organisms and has long lasting effects。

Prevention

P201 Obtain special instructions before use。

P202 Do not move it until you have read and understood all safety precautions。

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof [electrical/ventilating/lighting] equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P260 Do not breathe mists.

P264 Wash hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release into the environment。

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

P301 + P310 If swallowed by mistake: Call emergency center/doctor immediately。

P301 + P330 + P331 If swallowed: Rinse mouth. Do not induce vomiting.

P303 + P361 + P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].

P304 + P340 + P310 If inhaled: Remove person to fresh air and keep comfortable for breathing. Call emergency center/doctor immediately。

P305 + P351 + P338 + P310 If in eyes: Rinse carefully with water for a few minutes. If you wear contact lenses and can easily remove them, remove them. Keep rinsing. Call emergency services/doctors immediately

P312 If you feel unwell, call the emergency center/doctor。

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry powder and sand to extinguish fire. Do not use water or foam to extinguish fires

P391 Spill collection

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Storage	P403 + P235+ P233 Store in a well-ventilated place. Keep cool. Keep container tightly closed. P405 Store locked up.
Disposal	P501 Dispose of contents/container in accordance with local/regional/national/ international regulations.

Section 3 – Composition/Information on Ingredients

Component	Concentration (%)	CAS No.	EC No.
Tetrahydrofuran	Trade secret	109-99-9	203-726-8
N-heptane	Trade secret	142-82-5	205-563-8
Lithium diisopropylamine	Trade secret	4111-54-0	223-893-0
Ethylbenzene	Trade secret	100-41-4	202-849-4

Section 4 – First Aid Measures

After skin contact	Remove contaminated clothing and shoes immediately. Rinse with soap and plenty of water. Consult a doctor.
After eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a doctor.
After ingestion	Never feed an unconscious person anything from his or her mouth. Gargle with water. Consult a doctor.
After inhalation	If inhaled, move the patient to fresh air. Consult a doctor.

Section 5 – Fire Fighting Measures

Hazardous products of combustion	Carbon oxide\ nitrogen oxide\ magnesium oxide\ lithium oxide
Extinguishing method	Use dry powder and sand to extinguish fire. Do not use water or foam to extinguish fires
Special protective equipment	Put on full body protective clothing and self-contained breathing apparatus to fight the fire.

Section 6 – Accidental Release Measure

Personal protective measures	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental protective measures	Take measures to prevent further leakage or overflow under safe conditions. Don't let the product go down the drain.
Methods for taking in and cleaning up	Collect, enclose and extract the leakage, and use liquid absorbing materials to absorb the spill into a suitable closed container for disposal as hazardous waste.

Section 7 – Handling and Storage

Safe handling	Operate under a fume hood. Avoid contact with skin and eyes. Avoid inhaling steam or fog droplets. Keep away from fire. Fireworks are strictly prohibited. Take measures to prevent static buildup. Avoid contact with water.
Storage	Store in a cool place. Keep the container airtight, protect it with nitrogen, and store it in a dry, ventilated place. Open containers must be carefully resealed and held

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upright to prevent leakage. Keep away from heat sources, sparks, open flames, and hot surfaces.

Section 8 – Exposure Controls/Personal Protection

Engineering Controls

Operate in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of work. Use only in chemical exhaust hood. Ensure adequate ventilation, especially in closed areas. Make sure the eyewash and shower are close to the workplace. Where possible, engineering control measures such as process isolation or closure, the introduction of process or equipment changes to minimize the possibility of release or contact, and the adoption of properly designed ventilation systems shall be used to control hazardous material sources.

Respiratory protection

Wear a gas mask, or respiratory protective device.

Hand Protection

Handle with gloves. Gloves must be inspected prior to use and remove. 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.

Eye protection

Wear chemical safety goggles.

Skin and body protection

Complete suit protecting against chemicals. Flame retardant antistatic protective clothing, the type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Section 9 – Physical and Chemical Properties

Physical state: Transparent liquid

Color: Yellow

Odor: Pungent smell

pH value: No data available

Melting point/freezing point(°C): No data available

Initial boiling point and boiling range(°C): No data available

Flash point(°C)(closed cup): 2 ° C - Closed cup

Flammability: Flammable

Upper explosive limit%(V/V): No data available

Lower explosive limit%(V/V): No data available

Vapor pressure (hPa): No data available

Vapor density (g/mL): No data available

Relative density(/): No data available

Solubility: No data available

Octanol / water partition coefficient: No data available

Kinematic viscosity (mm²/s): No data available

Auto-ignition temperature(°C): No data available

Decomposition temperature(°C): No data available

Particle characteristics: No data available

Section 10 – Stability and Reactivity

Reactive

No data available.

Chemical stability

It breaks down when heated. It breaks down when wet. Sensitive to moisture.

Possibility of hazardous reactions

Reacts violently with water.

Avoid conditions

Heat, moisture.

Incompatible materials

Acids, strong oxidants, alcohols.

Hazardous decomposition products

Carbon oxide\ nitrogen oxide\ magnesium oxide\ lithium oxide\ explosive peroxide.

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Section 11 – Toxicological Information

Acute toxicity: No data available.

Skin corrosion/irritation: Causes severe skin burns.

Serious eye damage/eye irritation: Causes serious eye damage.The danger of blindness!

Respiratory or skin sensitization: No data available.

Germ cell mutagenicity: No data available.

Carcinogenicity: Suspected of causing cancer.

Reproductive toxicity: No data available.

Specific target organ toxicity – single exposure: The mixture can cause respiratory irritation. The mixture may cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure:Prolonged or repetitive exposure to the mixture may cause organ damage. - Auditory organs

Aspiration hazard: Inhalation hazards, inhalation may cause pulmonary edema and pneumonia

Section 12 – Ecological Information

Toxicity: No data available.

Persistence and degradability: No data available.

Bioaccumulative potential: No data available.

Mobility in soil: No data available.

Other adverse effects: No data available.

Section 13 – Disposal Considerations

Property of waste: No data available.

Methods of disposal: National and local regulations should be consulted before disposal. Contact with a qualified waste disposal agency for disposal.

Precautions of disposal: Contact professional waste disposal department to deal with waste.

Section 14 - Transport Information

UN number: 2924

UN proper shipping name: FLAMMABLE LIQUID, CORROSIVE, N.O.S.

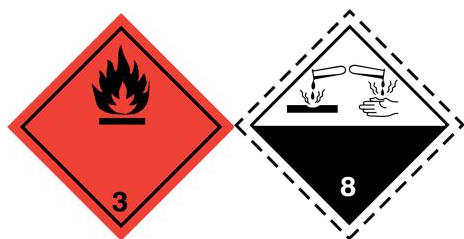
(Contains n-heptane, tetrahydrofuran, diisopropylamine lithium, ethylbenzene)

Transportation primary hazard class: 3

Transportation secondary hazard class: 8

Packing group: II

Hazard labeling:



Marine Pollutants (Yes/No): Yes (《List of hazardous Marine pollution goods》)

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Special precautions relating to transport or means of transport: The packing should be complete and the loading should be safe. During transportation, the container shall not leak, collapse, fall or be damaged. Transport vehicles and vessels must be thoroughly cleaned and disinfected, otherwise other articles may not be carried.

Section 15 - Regulatory Information

Regulatory Information: the following laws, regulations and standards provide for the safe use, storage, transport, handling, classification and labelling of chemicals:

List of chemicals	Is in the directory
List of hazardous chemicals under key supervision	-
List of highly toxic substances (2003 edition)	-
List of explosive-prone hazardous chemicals (2017 edition)	-
List of hazardous chemicals (2015 edition)	-
Classification and catalogue of Precursor Chemicals	-

Standard Series for classification and labelling of chemicals (GB 30000.2-2013-GB30000.29-2013)

Regulations on the Safety Administration of Dangerous Chemicals (order of the State Council No. 591)

Section 16 - Additional Information

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References: The SDS is prepared in accordance with 《Chemical Safety Technical Instructions the Contents and Sequence》(GB/T16483-2008) and 《Guidance for Preparing Chemical Safety Technical Instructions》(GB_T 17519-2013). The GHS classification of chemicals in the SDS is based on the chemical classification and label specification series standard (GB 30000.2-2013 ~ GB30000.29-2013).

Disclaimer: The chemical registration center of the Ministry of Emergency Management has provided all the relevant information in this SDS, but we can not guarantee its absolute completeness and accuracy. This SDS only provides safety precautions for those who are properly trained to use the product. To obtain the individual users of this SDS, under special conditions of use, must make an independent judgment of the applicability of this SDS. Under special circumstances, the chemical registry shall not be liable for any injury caused by the use of this SDS.