Safety Data Sheet according to Regulation (EC) No. 1907/2006



Revision Date: 16.08.2022 Version 2 SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

TK.201042.00000 Catalog No.

Product Name Lithium Hydroxide Monohydrate

Cas no 1310-66-3

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses Use as a laboratory reagent.

1.2.2. Uses advised against

No information available.

1.3. Details of the supplier of the safety data sheet

TEKKİM KİMYA SAN. TİC. LTD. ŞTİ. Name

ORGANIZE SAN. BÖL. MAVİ CAD. 8. SOK. NO :1 NİLÜFER / BURSA Street

0224 243 21 71 Telephone

E-mail erhan@tekkim.com.tr

Erhan DİLER Company Representative

1.4 Emergency Telephone Number +90 506 990 36 86

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (CLP)

Acute toxicity, Oral, Category 3 Skin Corrosion, Subcategory 1B Serious eye damage, Category 1

For the full text of the H and EUH statements referred to in this section, see section 16.

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 (CLP)

Hazard pictograms





Signal word (SEA)

DANGER

Hazard Statements (SEA)

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

Precautionary Statements (SEA)

Prevention

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P270 Do not eat, drink or smoke when using this product.

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

Intervention

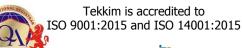
P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse your skin with water/shower.

P304+P340+P310 IF INHALED: Move victim to fresh air and keep in a position comfortable for breathing. Immediately call the NATIONAL POISON ADVICE CENTER or doctor/physician.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if fitted and easy to do. Continue rinsing.







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SECTION 3: Composition/information on ingredients

Classification according to Regulation (EC) No. 1272/2008 (CLP)

3.1 Maddeler

Following inhalation

215-183-4 EC No 23.95 g/mol Molar mass Cas No 1310-66-3 Concentration (<= 100 %)

SECTION 4: First aid measures

4.1 Description of first aid measures

General information In case of accident or unwellness, seek medical advice immediately

> (show directions for use or safety data sheet if possible). Remove casualty to fresh air and keep warm and at rest...

Following skin contact Wash with plenty of water. Take off contaminated clothing.

Following eye contact In case of contact with eyes, rinse eyelids with water for 10-15 minutes.

See a doctor immediately.

Give up to two glasses of water. Get medical help immediately. Do not try Following ingestion

> to neutralize. Only in exceptional cases; if medical assistance is not available within one hour, induce vomiting (only if the person is awake and fully conscious). After: activated charcoal (20 - 40g in 10% solution).

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Use extinguishing measures appropriate to the environment.

Unsuitable extinguishing media

There is no restriction for this item.

5.2 Special hazards arising from the substance or mixture

Lithium oxides. It is not flammable. All-round fire can release dangerous vapours.

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not stay in dangerous zone without self-contained breathing apparatus. Keep a safe distance to cut off contact with skin and wear suitable protective clothing.

5.4 Additional information

Stop and contain spill/release if it can be done safely. If this cannot be done, allow fire to burn under control.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Don't breathe vapours, aerosols. Avoid substance contact. Keep away from head and source of ignition. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert..

6.2 Environmental precautions

Do not allow to enter into surface water or drains.

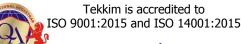
6.3 Methods and material for containment and cleaning up

Close drainage channels. Take up with liquid-absorbent material. Clean the affected area. Avoid generation of dust...

6.4 Reference to other sections







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Disposal: see section 13. 6.5 Additional information

Clear spills immediately.

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Advices on safe handling

Observe label precautions.

Advices on general occupational hygiene

Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Keep container tightly closed in dry and well-ventilated places.

7.3 Specific end uses

There are no other specific uses other than those mentioned in section 1.2.

SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Contains no subtances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

More attention should be paid to technical measures against the use of personal protective equipment.

Personal protection equipment

Eye/face protection

Fully fitting safety glasses

Hand protection

Hand protection

Full contact

Glove material: Nitrile rubber Glove thickness: 0,11 mm

Break through time: >480 minute

Splash contact

Glove material: Nitrile rubber Glove thickness:0,11 mm

Break through time: >480 minute

The protective gloves to be used must comply with the specifications of directive 89/686/EEC and the related standart EN374.

Other skin protection

Protective chlothing.

Respiratory protection

Required when dusts occur. Recommended filter type: P3 filter.

SECTION 9: Physical and chemical Properties

9.1 Information on basic physical and chemical properties







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Melting point/freezing point

Flammability (solid, gas)

Initial boiling point and boiling range

Partition coefficient: n-octanol/water

Upper/lower flammability or explosive limits

Upper/lower flammability or explosive limits

Physical state

Odour threshold

Freezing point

Evaporation rate

Vapour pressure Vapour density

Relative density

Fat solubility (g/l)

Water solubility (g/l)

Auto-ignition temperature

Decomposition temperature

Flash point

Colour

Odour

pH value

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> Solid White Odorless

> > No information. 1 g/l 20 °C No information.

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No information. 100 °C Not applicable. No information It is not flammable. No information. No information. No information. No information. No information. 1,510 g/cm3

210 g/l 20 °C No information. No information. No information. No information.

Viscosity

Density

Kinematic viscosity No information. No information. Dynamic viscosity

Explosive properties Not classified as explosive.

Oxidising properties No information.

SECTION 10: Stability and Reactivity

10.1 Reactivity

Section 10.3 to see.

10.2 Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3 Possibility of hazardous reactions

Violent reactions possible with acids.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

Aluminum, Lead, Zinc, Tin

10.6 Hazardous decomposition products

No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1 Information on toxicological effects







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Acute oral toxicity LD50 Oral - rat 363 mg/kg (OECD Test Guideline 403)

Acute inhalation toxicity LC50 Inhalation - Rat - male and female - 4 h - > 6.15 mg/l (OECD Test Guideline 403)

Skin corrosion/irritation Skin - in vitro experiment Result: Abrasive (OECD Test Guideline 435)

11.2 Additional information

Several exposures to lithium ion may result in diarrhoea, vomiting and tremors, frequent cramps, and hyper-reflex sensitivities.

High doses of lithium ions can cause drowsiness and fatigue, but can also cause kidney damage if sodium intake is limited. Dehydration, weight loss, dermatological effects, and thyroid disorders have been reported. Effects on the central nervous system include difficulty in speaking, impaired vision, loss of sensation, ataxia, and cramps. The product has an extremely destructive effect on mucous membranes and tissues of the upper respiratory tract, eyes and skin.

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SECTION 12: Ecological information

12.1 Toxicity

Toxicity to fish static test LC50 - Danio rerio (zebrafish) - 109 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates static test EC50 - Daphnia magna (Water flea) - 33.5 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae (algae)

static test ErC50 - Pseudokirchneriella subcapitata (green algae) - 153.44 mg/l - 72 h (OECD Test Guideline 201)

Toxicity to bacteria

static test EC50 - activated sludge - 316.8 mg/l - 3 h

(OECD Test Guideline 209)

12.2 Persistence and degradability

Methods for measuring biological degradation cannot be applied to inorganic substances.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB.

12.6 Other adverse effects

Discharge into environment must be avoided.

SECTION 13: Disposal considerations

Waste treatment methods

It must be disposed of in accordance with national and local regulations. Do not mix with other products. Uncleaned Treat packages as if it were the product itself ... Waste materials must be disposed of in accordance with national and local regulations.

SECTION 14: Transport information

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14.1 UN number

UN 2680 UN 2680 UN 2680 UN 2680 UN 2680 UN 2680

14.2 UN proper shipping name

LITHIUM HYDROXIDE LITHIUM HYDROXIDE LITHIUM HYDROXIDE LITHIUM HYDROXIDE LITHIUM HYDROXIDE LITHIUM HYDROXIDE

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14.3 Transport hazard class(es)

8 8 8 8





14.4 Packing group

II II II II II II

14.5 Environmental hazards

NO NO NO NO NO

No information available. No information available. No information available. No information available. No information available.

14.6 Special Precautions for User:

No information available.

SECTION 15: Regulatory information

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

This product safety data sheet complies with the requirements of EU Regulation 1907/2006.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been conducted for this substance.

SECTION 16: Other informations

Full text of H statements

H301 Toxic if swallowed.

H314 Causes severe skin burns and eye damage.

Person Who Prepared the Safety Data Sheet:

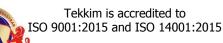
Name: Erhan DİLER

Certificate Number and Date: 11.29.03 & 11 Subat 2020

Communication information: 05069903686







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