

Material Safety Data Sheet

According to regulation (EC) No. 1907/2006 (REACH)

Labshop

Chemicals, Restoration and Art Supplies

77760 Limasol

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Revised edition: 24.02.2016

Version: 2

Printed: 24.02.2016

1. Identification of the Substance/Mixture and of the Company/Undertaking

1.1. Product Identifier

Product Name: *Limasol*

Article No.: *77760*

1.2. Relevant identified Uses of the Substance or Mixture and Uses advised against

Identified uses:

Inorganic binding agent, adhesive for industrial applications.

Uses advised against:

1.3. Details of the Supplier of the Safety Data Sheet (Producer/Importer)

Company: Interlabshop B.V.

Address: Lage Brink 23, 7317 BD Apeldoorn The Netherlands

Tel./Fax.: Tel. +3155-5215016

Internet: www.Labshop.nl

E-Mail: labshop@labshop.nl

Importer: --

1.4. Emergency No. --

Emergency No.: --

2. Hazards Identification

2.1. Classification of the Substance or Mixture

Classification according to EC Regulation 1272/2008

Skin irritation, category 2

Serious eye damage, hazard category 1

H315 Causes skin irritation.

Cat.: 2

H318 Causes serious eye damage.

Cat.: 1

Classification according to EC Regulation No. 67/548 or No. 1999/45

Safety Phrases:

Possible Environmental Effects:

See Section 12.

2.2. Label Elements

Classification according to EC Regulation 1272/2008

Hazard designation:



GHS05-2

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GHS07

Signal word:

Danger

Hazard designation:

H315 Causes skin irritation.
H318 Causes serious eye damage.

Safety designation:

P264 Wash thoroughly after handling.
P280 Wear protective gloves/ clothing/ eye/ face protection.
P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses and continue rinsing.
P310 Immediately call a poison center or physician.
P332+P313 If skin irritation occurs: Get medical attention.
P362 Take off contaminated clothing and wash before reuse.

Hazardous components for labelling:

2.3. Other Hazards

3. Composition/Information on Ingredients

3.1. Substance

3.2. Mixture

This produkt is a mxiture.

Chemical Characterization:

Water-based, silicate containing binding agent on the basis of lithium salts.

Hazardous Ingredients:

Lithium hydroxide (C, Xn; R22-R34; H302-314); REACH Reg. No. 01-2119560576-31	< 5 %	CAS-Nr: 1310-65-2 EINECS-Nr: 215-183-4 EC-Nr:
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Additional information:

Ionic mixture according to Annex V (REACH).

4. First Aid Measures

4.1. Description of the First Aid Measures

General information:

No special measures required.

After inhalation:

No special measures required.

After skin contact:

Wash off immediately with water.

After eye contact:

Rinse open eyes with plenty of water for at least 15 minutes.

After ingestion:

Rinse mouth with water and drink plenty of water. next page: 3

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Immediately get medical help.

4.2. Most important Symptoms and Effects, both Acute and Delayed

Symptoms:

No further information available.

Effects:

No further information available.

4.3. Indication of any Immediate Medical Attention and special Treatment needed

Treatment:

Treat symptomatically.

5. Fire-Fighting Measures

5.1. Extinguishing Media

Suitable extinguishing media:

Product itself does not burn.

Use extinguishing media for surrounding fire.

Unsuitable extinguishing media:

None known.

5.2. Special Hazards arising from the Substance or Mixture

Special hazards:

No special hazards.

5.3. Advice for Firefighters

Protective equipment:

No special measures required.

Further information:

6. Accidental Release Measures

6.1. Personal Precautions, Protective Equipment and Emergency Procedures

Personal precautions:

Floor may be slippery; use care to avoid falling.

6.2. Environmental Precautions

Environmental precautions:

Prevent contamination of soils, drains and surface water.

6.3. Methods and Material for Containment and Cleaning Up

Methods and material:

Contain with absorbent material (e.g. sand, acid binder, universal binder, sawdust) and collect in appropriate containers for disposal.

6.4. Reference to other Sections

For information for safe handling see Section 7.

Protective clothing, see Section 8.

Dispose of contaminated material according to Section 13.

7. Handling and Storage

7.1. Precautions for Safe Handling

Instructions on safe handling:

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The usual precautionary measures are to be adhered to when handling chemicals.

Avoid contact with eyes, skin and clothing.

Hygienic measures:

Do not eat or drink during work. Do not smoke.

7.2. Conditions for Safe Storage, including any Incompatibilities

Storage conditions:

Protect from frost.

Requirements for storage areas and containers:

Suitable container material: steel or stainless steel.

Unsuitable container material: aluminum, zinc.

Unsuitable container material: glass, ceramic.

Unsuitable container material: light metal.

Information on fire and explosion protection:

Do not store together with: acids.

No special measures necessary.

Storage class (VCI):

12; Non-combustible liquids

Further Information:

7.3. Specific End Use(s)

Further information:

8. Exposure Controls/Personal Protection

8.1. Parameters to be Controlled

Parameters to be controlled (DE):

none known

Parameters to be controlled:

Derived No-Effect Level (DNEL):

No values available.

Predicted No-Effect Concentration (PNEC):

No values available.

Additional Information:

8.2. Exposure Controls

Technical protective measures:

No further measures, see Section 7.

Personal Protection

General protective measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Respiratory protection:

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Not required.

Hand protection:

Protective gloves which are alkali-resistant.

Protective glove material:

*Natural rubber with a low percentage of chloroprene rubber.
Recommended: Protective index 6, > 480 min. of permeation time
accord. EN 374.*

Eye protection:

Safety glasses (EN 166)

Body protection:

Protective clothing.

Environmental precautions:

*Prevent from getting into the soil, surface water and sewage
system.*

9. Physical and Chemical Properties

9.1. Information on Basic Physical and Chemical Properties

Form:

liquid

Color:

opaque

Odor:

odorless

Odor threshold:

No information available.

pH-Value:

ca. 11.4

Melting temperature:

not determined

Boiling temperature:

> 100°C

Flash point:

not applicable

Evaporation rate:

not applicable

Flammability (solid, gas):

not flammable

Upper explosion limit:

no information available

Lower explosion limit:

no information available

Vapor pressure:

not applicable

Vapor density:

No information available.

Density:

1.24 g/cm³ (20°C)

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Solubility in water: completely miscible

Coefficient of variation (n-Octanol/Water):

not determined

Auto-ignition temperature:

Product is not auto-ignitable.

Decomposition temperature:

No data available.

Viscosity, dynamic:

25 mPa.s

Explosive properties:

Product does not present an explosion hazard.

Oxidizing properties:

no information available

Bulk density:

not determined

9.2. Further Information

Solubility in solvents:

Viscosity, kinematic

Burning class:

Solvent content:

Solid content:

Particle size:

Other information:

No further information.

10. Stability and Reactivity

10.1. Reactivity

Stable if used according to specifications.

10.2. Chemical Stability

No decomposition if used according to specifications.

10.3. Possibility of Hazardous Reactions

Reactions with light metals in presence with humidity under development of hydrogen.

Reacts with acids (exothermic reactions).

10.4. Conditions to Avoid

Conditions to avoid:

No decomposition if used according to specifications.

Thermal decomposition:

No decomposition if used according to specifications.

10.5. Incompatible Materials

Acids

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10.6. Hazardous Decomposition Products

None known.

10.7. Further Information

11. Toxicological Information

11.1. Information on Toxicological Effects

Acute Toxicity

LD50, oral:

Lithium hydroxide (1310-65-2): > 210 mg/kg (rat)

LD50, dermal:

No information available.

LC50, inhalation:

No information available.

Primary effects

Irritant effect on skin:

Slight irritant effect.

Irritant effect on eyes:

Causes severe eye damage.

Inhalation:

No information available.

Ingestion:

No information available

Sensitization:

No sensitizing effects known.

Mutagenicity:

No data available.

Reproductive toxicity:

No data available.

Cancerogenity:

No data available.

Teratogenicity:

No information available.

Specific target organ toxicity (STOT):

No data available.

Additional toxicological information:

When used and handled according to specifications, the product does not have any harmful effects. The product is not subject to classification according to latest version of the General EU Classification Guidelines for Preparations.

12. Ecological Information

12.1. Aquatic Toxicity

Fish toxicity:

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Lithium hydroxide: LC50: 62.21 mg/l (96h, Danio rerio)

Daphnia toxicity:

Lithium hydroxide: EC50: 19.1 mg/l (48h, Daphnia magna)

Bacteria toxicity:

Lithium hydroxide: EC10: 79.2 mg/l (3h, active sludge)

Algae toxicity:

Lithium hydroxide: EC50: 1.88 mg/l (72h)

12.2. Persistency and Degradability

*Can be eliminated from water by chemical flocculation.
Inorganic substance. Biological degradability is not affected.*

12.3. Bioaccumulation

No information available.

12.4. Mobility

No information available.

12.5. Results of PBT- und vPvP Assessment

Not applicable.

12.6. Other Adverse Effects

Water hazard class:

Do not let product contaminate ground water, waterways or sewage system.

Behaviour in sewage systems:

*The product is an alkaline solution.
Product should be neutralized before discarding to sewage system.*

Further ecological effects:

Not toxic after neutralization.

AOX Value:

13. Disposal Considerations

13.1. Waste Treatment Methods

Product:

After neutralisation and solidification the product can be taken to a waste disposal site.

European Waste Code (EWC):

Uncleaned packaging:

*Dispose of according to official local regulations.
Suggested cleaning agent: water. Detergent can be added if necessary.*

Waste Code No.:

14. Transport Information

14.1. UN Number

ADR, IMDG, IATA

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14. 2. UN Proper Shipping Name

ADR/RID:

No hazardous goods according to ADR (land transportation).

IMDG/IATA:

No hazardous goods according to IMDG.

14. 3. Transport Hazard Classes

ADR Class:

not applicable

Hazard no.:

Classification code:

Tunnel no.:

IMDG Class (sea):

Hazard no.:

EmS No.:

IATA Class:

Hazard no.:

14. 4. Packaging Group

ADR/RID:

not applicable

IMDG:

IATA:

14. 5. Environmental Hazards

Not classified as environmentally hazardous.

14. 6. Special Precautions for User

none known

14. 7. Transportation in Bulk according to Annex II of MARPOL 73/78 and IBC-Code

not applicable

14. 8. Further Information

15. Regulatory Information

15. 1. Safety, Health and Environmental Regulations/Legislation specific for the Substance or Mixture

Water hazard class:

1, slightly hazardous for water

Local regulations on chemical accidents:

Employment restrictions:

Restriction and prohibition of application:

Technical instructions on air quality:

15. 2. Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this

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product.

15. 3. Further Information

Listed in:

EINECS (EU), TSCA (USA), AICS (AUS), DSL (CA), PICCS (PH), ENCS (JP), KECI (KR), IECSC (CN), NECI (TW), HSNO (NZ)

16. Other Information

This product should be stored, handled and used in accordance with good hygiene practices and in conformity with any legal regulations. This information contained herein is based on the present state of knowledge and is intended to describe our product from the point of view of safety requirements. It should be therefore not be construed as guaranteeing specific properties.