

Section 1 - IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product identifier

- **Product Name :** Zohar LQ-215

1.2 Relevant identified uses of the substances or mixture and used advised against

- **Recommended use :** Insecticidal and fungicidal detergent.
- **Recommended restrictions :** For industrial use only.

1.3 Details of supplier of the safety data sheet :

- **Manufacturer Details:** ZOHAR DALIA C.A.A. Ltd.,
Kibbutz Dalia 1923900, Israel
Tel. 972-4-9897234
Fax 972-4-9897200

1.4 Emergency telephone number :

- **Emergency Telephone & Contact:** Tel: +972-4-9897515

Section 2 - HAZARDS IDENTIFICATION

2.1 Classification of substance or mixture according to Regulation (EC) No 1272/2008 (CLP)

Flam. Liq. 3 H226 Flammable liquid and vapour.
Eye Dam. 1 H318 Causes serious eye damage.
Skin Irrit. 2 H315 Causes skin irritation.

Classification of substance or mixture according to the Globally Harmonized System (GHS)

Flam. Liq. 3 H226 Flammable liquid and vapour.
Eye Dam. 1 H318 Causes serious eye damage.
Skin Irrit. 2 H315 Causes skin irritation.

2.2 Labeling according to Regulation (EC) No 1272/2008 (CLP)

- Hazard Pictograms :
- SIGNAL WORD: Danger



- GHS05 corrosion GHS02 flame GHS07(optional)

- **Hazard determining components of labeling:**

Sulfuric acid, mono -C12-14-alkyl esters, sodium salts
butanol

- **Hazard Statements:**

H226 Flammable liquid and vapour.
H315 Causes skin irritation.

H318 Causes serious eye damage.

• **Precautionary Statements:**

P101 If medical advice is needed, have product container or label at hand.
 P102 Keep out of reach of children.
 P103 Read label before use.
 P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P240 Ground and bond container and receiving equipment.
 P241 Use explosion-proof [electrical/ventilating/lighting] equipment.
 P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 Immediately call a POISON CENTER/doctor.
 P321 Specific treatment (see on this label).
 P403+P235 Store in a well-ventilated place. Keep cool.
 P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Labeling according to the Globally Harmonized System (GHS)

- Hazard pictograms:GH02, GHS05
- SIGNAL WORD: Danger
- Hazard –determining components of labeling:
Sulfuric acid,mono -C12-14-alkyl esters,sodium salts
Butanol
- Hazard statements: H226, H315, H318.
- Precautionary statements: P101, P102, P103, P210,P240, P241, P280, P303+P361+P353, P305+P351+P338, P310, P321,P403+P235, P501

2.3. Other hazards

Not known

Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Constituent	CAS No.	EC No.	Concentration range	Classification according to Regulation (EC) No 1272/2008 (CLP)	Remarks
Sulfuric acid,mono -C12-14-alkyl esters,sodium salts	85586-07-8	287-809-4	10-25%	Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315 Aquatic Chronic 3, H412	-
Butanol	78-83-1	201-148-0	5-10%	Flam. Liq. 3, H226 Eye Dam. 1, H318 Skin Irrit. 2, H315; STOT SE 3, H335-H336	-
5-Chloro-2-methyl-4 isothiazolin-3-one [EC no.247-500-7] / 2-Methyl-2H-isothiazol-3-one [EC NO.220 -239-6] (3:1)	55965-84-9	611-341-5	<0.1	Met. Corr.1, H290; Skin Corr. 1B, H314 Skin Sens. 1, H317	-

Section 4 - FIRST AID MEASURES

4.1 Description of First Aid measures:

- **General measures** : None.
- **Eye contact** : Rinse opened eye for several minutes under running water. Then consult a doctor.
- **Skin Contact** : Immediately wash with water and soap and rinse thoroughly.
- **Inhalation** : In case of unconsciousness place patient stably in side position for transportation.
- **Ingestion** : Drink plenty of water and provide fresh air. Call for a doctor immediately.

4.2. Most important symptoms and effects, both acute and delayed

- No further relevant information available.

4.3. Indication of any immediate medical attention and special treatment needed

- No further relevant information available.

Section 5 - FIRE-FIGHTING MEASURES

5.1. Extinguishing media:

Suitable extinguishing media : Use water spray, Dry powder, foam, Carbon dioxide.

Unsuitable extinguishing media: Water with full jet.

5.2. Special hazards arising from the substance or mixture:

In case of fire, toxic incineration products may be released such as:

Carbon oxides, Nitrogen oxides (NOx), Hydrogen Chloride, Sulphur dioxide.

5.3. Advice for fire-fighters

- Wear self contained breathing apparatus for firefighting if necessary.

Section 6 - ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- **Personal Protective Equipment** : Wear protective equipment.
- **Skin Protection** : For personal protection see section 8.
- **Eye Protection** : For personal protection see section 8.
- **Respiratory Protection** : None
- **Work Practices** : Keep unprotected persons away.

6.2. Environmental precautions:

- Do not allow to enter sewers/ surface or ground water.

6.3. Methods and material for containment and cleaning:

- Absorb with liquid-binding material (sand, universal binders, sawdust).
- Use neutralizing agent.
- Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation.

Section 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

- Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**
- Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.

7.2 Conditions for safe storage:

- Keep container tightly sealed.
- Keep away from heat sources. Keep in a dry and well-ventilated place.

7.3 Specific end use(s):

- No further relevant information available.

Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

- **Ingredients with limit values that require monitoring at the workplace:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.

8.2 Exposure Control:

- | | |
|--|--|
| <ul style="list-style-type: none"> • Engineering measures: | None |
| <ul style="list-style-type: none"> • Respiratory Protection: | Not required. |
| <ul style="list-style-type: none"> • Hand Protection: | <p>Protective gloves-The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Gloves must be inspected prior to use. 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.</p> <p>Material of gloves: The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.</p> <p>Penetration time of glove material: The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.</p> |



- **Eye protection:**
- **Skin protection:**
- **Protective measures :**



Tightly sealed goggles.
Protective clothing.

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

Section 9 – PHYSICAL & CHEMICAL PROPERTIES:

9.1 Information on basic physical and chemical properties:

- | | |
|--|--|
| • Appearance: | Clear liquid |
| • Odour: | Characteristic |
| • Odour threshold: | N.A. |
| • pH (5% Solution) : | 7.5-8.5 |
| • Melting point/Freezing point: | N.A. |
| • Initial boiling point and boiling range: | 100°C |
| • Flash point: | 24°C |
| • Evaporation rate: | N.A. |
| • Flammability(solid/gas): | N.A. |
| • Upper/lower flammability or explosive limits: | N.A. |
| • Vapour pressure: | N.A. |
| • Vapour density: | N.A. |
| • Relative density: | 1.02 (gr /ml) |
| • Solubility (water) : | N.A. |
| • Partition coefficient: n-octanol/water: | N.A. |
| • Ignition temperature: | 390°C |
| • Auto-ignition temperature: | Product is not selfigniting. |
| • Decomposition temperature: | N.A. |
| • Viscosity: | N.A. |
| • Explosive properties: | Product is not explosive. However, formation of explosive air/ vapour mixtures are possible. |
| • Oxidizing properties: | No |

Section 10 - STABILITY AND REACTIVITY

- | | |
|---|---|
| • Reactivity : | Stable under recommended storage conditions. |
| • Chemical stability : | No decomposition if used according to specifications. |
| • Possibility of hazardous reactions : | None if stored and handled properly. |
| • Conditions to avoid : | Keep away from naked flames/heat. Keep away from ignition sources / sparks. |
| • Hazardous decomposition products : | Nitrogen oxides (NOx), Carbon oxides, Sulphur dioxide, Hydrogen |

chloride.

- Incompatible materials : Oxidizing agents and strong acids.

Section 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

- **Acute toxicity** Based on available data, the classification criteria are not met.

11.2 Irritation Corrosion:

- Eye: Causes serious eye damage.
- Skin : Causes skin irritation.

11.3 Sensitization

- Based on available data, the classification criteria are not met.

11.4 CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

- Carcinogenicity :
 - Based on available data, the classification criteria are not met.
- Mutagenic effects :
 - Based on available data, the classification criteria are not met.
- Reprotoxic effects :
 - Based on available data, the classification criteria are not met.

11.5 Other toxic effects on humans:

- **Inhalation** : No data available
- **Dermal** : No data available
- **Eyes** : No data available

- **Ingestion** : No data available

- **Chronic toxicity** : No data available

11.6 NIOSH Immediately Dangerous To Life or Health Concentration (IDLH):

- No information available

11.7 Specific target organ toxicity:

- **Single exposure** : Based on available data, the classification criteria are not met.
- **Repeated exposure** : Based on available data, the classification criteria are not met.

Section 12 - ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

No further relevant information available.

12.2 Persistence and degradability:

No further relevant information available.

12.3 Bioaccumulative potential:

- No data available

12.4 Mobility in soil:

- Data not available
- **Additional ecological information:**
General notes: Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
 Must not reach sewage water or drainage ditch undiluted or unneutralised.

12.5 Results of PBT and vPvB assessment:

- Not PBT and PVB

12.6 Other adverse effects:

- None

Section 13 - DISPOSAL CONSIDERATIONS:

- **Waste treatment methods** : Must not be disposed together with household garbage.
Do not allow product to reach sewage system.
- **Container Disposal** : Disposal must be made according to official regulations.

Section 14 - TRANSPORT INFORMATION:

Classified as dangerous in the meaning of transport regulations due to its composition.

Land transport (ADR/RID)

- **UN Number** : UN1993
- **UN proper shipping name** : 1993 FLAMMABLE LIQUID, N.O.S. (ISOBUTANOL (ISOBUTYL ALCOHOL))
- **Transport hazard class** : 3 (F1) Flammable liquids.
- **Packing group** : III

Marine transport (IMDG)

- **UN Number** : UN1993
- **UN proper shipping name** : FLAMMABLE LIQUID, N.O.S. (ISOBUTANOL (ISOBUTYL ALCOHOL))
- **Transport hazard class** : 3 Flammable liquids.
- **Packing group** : III
- **EmS number** : F-E,S-E

- **Marine pollutant** : --
- Air transport ICAO/IATA**
- **UN Number** : UN1993
 - **UN proper shipping name** : FLAMMABLE LIQUID, N.O.S. (ISOBUTANOL (ISOBUTYL ALCOHOL))
 - **Transport hazard class** : 3 Flammable liquids.
 - **Packing group** : III

Additional Transport Information :

- **EAC: 3Y**

Section 15 - REGULATORY INFORMATION

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

- Labeling according to Regulation (EC) No 1272/2008, see section 2.2- Label elements.
The product is classified and labeled according to the CLP regulation.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

Section 16 – OTHER INFORMATION

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

All information contained in the present sheet is based on the manufacturer data. the use of this product is subject to our direct control : therefore , users must under their own responsibility comply with the current health and safety laws and regulation.

- **Relevant phrases**
 - H226 Flammable liquid and vapour.
 - H290 May be corrosive to metals.
 - H302 Harmful if swallowed.
 - H314 Causes severe skin burns and eye damage.
 - H315 Causes skin irritation.
 - H317 May cause an allergic skin reaction.
 - H318 Causes serious eye damage.
 - H335 May cause respiratory irritation.
 - H336 May cause drowsiness or dizziness.
 - H412 Harmful to aquatic life with long lasting effects.
- **Department issuing MSDS:** Product safety department.
- **Contact:**
 - Kibbutz Dalia 1923900
 - Israel Phone :972-4-9897234
 - Fax: 972-4-9897200

www.zohar-dalia.com

- **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Flam. Liq. 3: Flammable liquids – Category 3

Met. Corr.1: Corrosive to metals – Category 1

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Dam. 1: Serious eye damage/eye irritation – Category 1

Skin Sens. 1: Skin sensitisation – Category 1

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

Data compared to the previous version altered.