

Section 1 - IDENTIFICATION OF THE SUBSTANCE /MIXTURE AND OF THE COMPANY

1.1 Product identifier :

- **Product Name :** ECO JET

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

- **Recommended use :** Cleaner
- **Recommended restrictions :** For professional 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)

Human health hazard categories and codes:

| | |
|----------------|-------------|
| Skin corrosion | Category 1B |
| Eye Damage | Category 1 |

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

SIGNAL WORD: Danger

- **Hazard Pictogram :**



GHS05
Corrosion

Hazard determining components of labeling:

- **Hazard Statements :**

Potassium hydroxide

H314 Causes severe skin burns and eye damage

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

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 skin with water/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 or physician.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- **Precautionary Statements :**

2.3. Other hazards

Not known

Section 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

| Constituent | CAS No. | EC No. | Concentration range | Classification according to Regulation (EC) No 1272/2008 (CLP) | Remarks |
|---|------------|-----------|---------------------|---|--|
| Potassium hydroxide | 1310-58-3 | 215-181-3 | 1-5 % | Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1A; H314 | Skin Corr. 1B; H314: 2 % ≤ C < 5 % |
| Alcohol, ethoxylate 1 | | Polymer | 1-5 % | Acute Tox.4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Chronic 3; H412 | None |
| 2-butoxyethanol | 111-76-2 | 203-905-0 | 1-5 % | Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319 | None |
| Amines, C12-18(even numbered)-alkyldimethyl, N-oxides | 68955-55-5 | 931-341-1 | 1-5 % | Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic chronic 2; H411 | None |

Section 4 - FIRST AID MEASURES

4.1 Description of First Aid measures:

- **General measures :**
- **Eye contact :**
- **Skin Contact :**
- **Inhalation :**
- **Ingestion :**

Take off all contaminated clothing immediately. In the case of accident or if you feel unwell, seek medical advice immediately.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. In case of eye irritation consult an ophthalmologist.

Take off all contaminated clothing immediately. Wash off immediately with plenty of water for at least 15 minutes. Consult a physician in case of complaints.

Remove from exposure, lie down. Consult a physician in case of complaints.

If swallowed, rinse mouth with water (only if the person is conscious). Consult a physician.

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

- In all cases of doubt, or when symptoms persist, seek medical advice.

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

- Advice to physician: Symptomatic treatment is advised. Eye rinsing device shall be made available at any point of handling of the product.

Section 5 - FIRE-FIGHTING MEASURES

5.1. Extinguishing media:

Suitable extinguishing media: Water spray, Chemical powder, Foam, Carbon dioxide (CO₂) & sand.

Unsuitable extinguishing media: High pressure water jet

5.2. Special hazards arising from the substance or mixture:

Gives off irritating or toxic fumes in a fire.
Avoid inhaling the fumes.

5.3. Advice for fire-fighters

- Use firefighting water moderately and contain it.
- Use water spray to cool tanks/containers exposed to heat / remove them into safety.
- In the event of fire, wear self-contained breathing apparatus.
- Use personal protective equipment.

Section 6 - ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- **Personal Protective Equipment :** Isolate area. Keep unnecessary personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.
- **Eye Protection :** Face shield and safety glasses. (as mentioned in section 8.2)
- **Skin Protection :** Avoid contact with skin by use of protective equipment (as mentioned in section 8.2)
- **Respiratory Protection :** Wear personal protective equipment. (as mentioned in section 8.2)
- **Work Practices :** Wear eye/face protection.

6.2. Environmental precautions:

- Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning:

- Collect as much as possible by any mechanical mean in a clean container for (preferably) reuse or disposal in accordance with local regulations.
- Absorb and contain spill with inert material (sand, earth etc.) and transfer to containers for disposal in accordance with local regulations.

Section 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

- Observe strict hygiene - avoid eye and skin contact.
- Avoid splashing of material.
- Safety showers should be readily available in handling and storage areas.
- Eye wash fountains should be located in the work areas and should be immediately accessible for emergency use.
- Remove contaminated clothing immediately.
- Use only equipment and materials which are compatible with the product.

7.2 Conditions for safe storage:

- Store in original container.
- Store in a cool, dry, well-ventilated place.

- Store in properly labelled containers.
- Keep container tightly closed.
- Keep away from incompatible products.

7.3 Specific end use(s):

- As prescribed in section 1.2

Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

Not Applicable.

8.2 Exposure Control:

- **Engineering measures:** Ensure adequate ventilation, especially in confined areas.
- **Respiratory Protection:** In case of insufficient ventilation, wear suitable respiratory equipment.
- **Hand Protection:** Splash contact, intermittent and prolonged PVC gloves
- **Eye Protection:** Wear chemical goggles with face-shield. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- **Skin Protection:** Wear suitable protective clothing. Use impervious gloves.
- **Protective measures :** Wear suitable gloves and eye/face protection. Avoid contact with the skin and the eyes. General industrial hygiene practice.

Section 9 – PHYSICAL & CHEMICAL PROPERTIES:

9.1 Information on basic physical and chemical properties:

- **Appearance :** Clear light blue liquid
- **Odour :** Characteristic
- **Odour threshold :** N.A.
- **pH:** 12.8-13.5
- **Melting point/Freezing point :** N.A.
- **Initial boiling point and boiling range :** N.A.
- **Flash point :** N.A.
- **Evaporation rate :** N.A.
- **Flammability :** N.A.
- **Upper/lower flammability or explosive limits :** N.A.
- **Vapour pressure :** N.A.
- **Vapour density :** N.A.
- **Density :** 1.01(g/ml 20°C)
- **Solubility(ies) :** Fully miscible in water
- **Partition coefficient: n-octanol/water :** N.A.
- **Auto-ignition Temperature :** N.A.
- **Decomposition temperature :** N.A.
- **Viscosity :** N.A.
- **Explosive properties :** No

- **Oxidizing properties :** No

9.2 **Other information :** None

Section 10 - STABILITY AND REACTIVITY

| | |
|---|---|
| Reactivity : | Stable under recommended storage and handling conditions. May be corrosive to some metals. |
| Chemical stability : | Stable under recommended storage and handling conditions. |
| Possibility of hazardous reactions : | None if stored and handled properly. |
| Conditions to avoid : | Avoid contact with acids. |
| Hazardous decomposition products : | No decomposition if used according to specifications. |
| Incompatible materials : | Strong acids. |

Section 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

- 1310-58-3 Potassium hydroxide
LD50(oral) 333 mg/kg bw (rat)

11.2 Irritation Corrosion:

- **Eye:** The product causes serious eye damage.
- **Skin :** The product causes severe skin burns.

11.3 Sensitization

- The product is not sensitizing to skin.

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

- **Carcinogenicity :** Not classified as carcinogen.
- **Mutagenic effects :** Not classified as a mutagen.
- **Reprotoxic effects :** Not found to be reprotoxic.

11.5 Other toxic effects on humans:

- **Inhalation :** No data available
- **Dermal :** No data available
- **Eyes :** No data available
- **Ingestion :** Harmful if swallowed
- **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 :** No experimental or epidemiological sufficient evidence for

- **Repeated exposure :** specific target organ toxicity
No experimental or epidemiological sufficient evidence for specific target organ toxicity

Section 12 - ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

- Data not available.

12.2 Persistence and degradability:

- Data not available.

12.3 Bioaccumulative potential:

- Data not available.

12.4 Mobility in soil:

- Data not available.

12.5 Results of PBT and vPvB assessment:

- Not PBT and vPvB.

12.6 Other adverse effects:

- None

Section 13 - DISPOSAL CONSIDERATIONS:

Dispose in accordance with all applicable regulations.

All wastes must be handled in accordance with local, state and federal regulations. Regulations vary.

- **Disposal of product :** Dilute with water. Do not allow product to reach sewage system. Recover waste water for processing later.
- **Disposal of packaging:** Clean container with water. Recover waste water for processing later.
Dispose of according to local authority regulations.

Section 14 - TRANSPORT INFORMATION:

Land transport (ADR/RID):

- **UN Number:** UN1814
- **UN proper shipping name:** POTASSIUM HYDROXIDE SOLUTION
- **Transport hazard class:** 8
- **Packing group:** III
- **Environmental hazards:** Prevent disposal into the drains
- **Labels:** 8

Marine transport (IMDG):

- **UN Number** UN1814

- **UN proper shipping name:** POTASSIUM HYDROXIDE SOLUTION
- **Transport hazard class:** 8
- **Packing group:** III
- **EmS number:** F-A, S-B
- **Marine pollutant:** No
- **Labels:** 8

Air transport ICAO/IATA:

- **UN Number:** UN1814
- **UN proper shipping name:** POTASSIUM HYDROXIDE SOLUTION
- **Transport hazard class:** 8
- **Packing group:** III
- **Labels:** 8

Section 15 - REGULATORY INFORMATION

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

EU Regulations:

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 – CLP
- Regulation (EC) No. 648/2004 - Detergents regulation

Ingredients according to EC Detergents Regulation 648/2004

Non-ionic surfactants <5%

Cationic surfactants <5%

Disinfectants(2-methylisothiazol-3(2H)-one, 1,2-benzisothiazol-3(2H)-on)

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

15.2 Chemical Safety Assessment:

- A chemical safety assessment has not been carried out.

Section 16 – OTHER INFORMATION

Classification procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008[CLP]:

The classification of the mixture is based on calculation methods using substance data.

- **Relevant phrases:**
 - H290 May be corrosive to metals.
 - H302 Harmful if swallowed.
 - H312 Harmful in contact with skin.
 - H314 Causes severe skin burns and eye damage.
 - H315 Causes skin irritation.
 - H318 Causes serious eye damage.
 - H319 Causes serious eye irritation.
 - H332 Harmful if inhaled.
 - H400 Very toxic to aquatic life.
 - H411 Toxic to aquatic life with long lasting effects.
 - H412 Harmful to aquatic life with long lasting effects.

- **Abbreviations and acronyms:**

ADR: The 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

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