

Section 1 - IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product identifier

- **Product Name :** TOP MS

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

- **Recommended use :** Foam cleaner & disinfectant
- **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)

| | | |
|---|----------------|-------------|
| Human health hazard categories and codes: | Skin corrosion | category 1B |
| Environmental hazard categories and codes: | Aquatic Acute | category 1 |

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

- **Hazard Pictogram :** **SIGNAL WORD: Danger**



GHS05
Corrosion



GHS09
Environment

Hazard determining components of labeling:

- **Hazard Statements :** Potassium hydroxide
Sodium hypochlorite
H314 Causes severe skin burns and eye damage.
H400 Very toxic to aquatic life.
- **Precautionary Statements:** P273 Avoid release to the environment.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P310 Immediately call a POISON CENTER/doctor if you feel unwell.
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.
P501 Dispose of contents/container to an approved waste

disposal plant

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 |
|---|------------|-----------|---------------------|--|---|
| Potassium Hydroxide | 1310-58-3 | 215-181-3 | >=1.0 % < 5.0 % | Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1A; H314 | Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Corr. 1A; H314: C ≥ 5 % |
| Sodium Hypochlorite | 7681-52-9 | 231-668-3 | >=1.0% < 5.0 % | Skin Corr. 1B; H314 Aquatic Acute 1; H400 | None |
| Amines, C12-18(even numbered)-alkyldimethyl, N-oxides | 68955-55-5 | 931-341-1 | >=1.0% < 5.0 % | Skin Irrit. 2; H315 Acute Oral tox 4: H302 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** : Take off all contaminated clothing immediately. In the case of accident or if you feel unwell, seek medical advice immediately.
- **Eye contact** : 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.
- **Skin Contact** : Wash off immediately with plenty of water for at least 15 minutes. Take off all contaminated clothing immediately. Consult a physician.
- **Inhalation** : Remove from exposure, lie down. If breathing is irregular or stopped, administer artificial respiration. Monitor breathing, give oxygen if necessary. Consult a physician.
- **Ingestion** : 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, Dry powder, Foam, Carbon dioxide (CO2)

Unsuitable extinguishing media: None known

5.2. Special hazards arising from the substance or mixture : Not combustible. Gives off irritating or toxic fumes in a fire.

5.3. Advice for fire-fighters

- Use fire fighting 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.
- Wear chemical resistant oversuit

Section 6 - ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- **Personal Protective Equipment :** Wear self-contained breathing apparatus in case of fire.
Wear corrosion-proof suit
- **Eye Protection :** Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).
- **Skin Protection :** Avoid contact with skin by use of protective equipment. (as mention in section 8.2)
- **Respiratory Protection :** Wear personal protective equipment. (as mention in section 8.2)
- **Work Practices :** Wear eye/face protection.

6.2. Environmental precautions:

- Should not be released into the environment.
- Do not flush into surface water or sanitary sewer system.
- If the product contaminates rivers and lakes or drains inform respective authorities.

6.3. Methods and material for containment and cleaning:

- Recovery: Pump into a clean labelled emergency container after cleaning, flush away traces with water. recover water for later processing
- Large spillage – pump onto plastic containers and rework/dispose as per local legislation.
- Small spillage – use non-combustible absorbent and shovel into container for disposal.
- Neutralization: Neutralize contaminated water with a suitable solvent
- Equipment must be corrosion resistant.

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.
- To avoid thermal decomposition, do not overheat.
- Do not mix with ammonia or acids as hazardous fumes may result.
- Do not reuse empty bottle.

7.2 Conditions for safe storage:

- Store in original container.
- Keep in a well-ventilated place.
- Keep in a dry place.
- Keep in properly labelled containers.
- Keep container 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.
In the case of hazardous fumes, wear self-contained breathing apparatus.
- **Hand Protection:** Splash contact, intermittent and prolonged PVC gloves
- **Eye protection:** Safety glasses with side-shields
- **Skin protection:** waterproof suit, Complete chemical protection suit, Boots
- **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:** Yellowish Liquid
- **Odour:** Characteristic
- **Odour threshold:** N.A.
- **pH(1%) :** 11.0 – 12.0
- **Melting point/Freezing point:** N.A.
- **Initial boiling point and boiling range:** > 100 °C

- **Flash point:** N.A.
- **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.
- **Density(20°C):** 1.12 g/ml
- **Solubility(ies) :** Miscible (in all proportions)
- **Partition coefficient: n-octanol/water:** N.A.
- **Auto-Ignition temperature:** N.A.
- **Decomposition temperature:** N.A.
- **Viscosity:** N.A.
- **Explosive properties:** No
- **Oxidizing properties:** N.A.

9.2 Other information: Not available

Section 10 - STABILITY AND REACTIVITY

- **Reactivity :** Potential for exothermic hazard.
May be corrosive to metals.
- **Chemical stability :** Stable under recommended storage and handling conditions.
- **Possibility of hazardous reactions :** The product decomposes on heating, on contact with acids under influence of light producing toxic and corrosive gases including chlorine. The product in water is a weak base.
- **Conditions to avoid :** Heat, direct sunlight
- **Hazardous decomposition products :** No hazardous decomposition products if stored and handled as prescribed/indicated.
- **Incompatible materials :** Methanol, strong acids, ammonia, organics

Section 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

- No data available

11.2 Irritation Corrosion:

- **Eye:** The product causes eye damage.
- **Skin :** The product found corrosive to skin.

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

Section 12 - ECOLOGICAL INFORMATION

12.1 Ecotoxicity:

- Aquatic toxicity (acute): Product contains sodium hypochlorite which is very toxic to aquatic life.

12.2 Persistence and degradability:

- Data not available for product.

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 PVB

12.6 Other adverse effects:

- None

Section 13 - DISPOSAL CONSIDERATIONS:

- **Disposal of product** : Dilute with water. Neutralize contaminated water with a suitable solvent solution.
Recover waste water for processing later.

- **Disposal of packaging :** Clean container with water. Recover waste water for processing later.

Section 14 - TRANSPORT INFORMATION:

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

Land transport (ADR/RID)

- **UN Number :** 1791
- **UN proper shipping name :** Hypochlorite solution
- **Transport hazard class :** 8
- **Packing group :** III

Marine transport (IMDG)

- **UN Number :** 1791
- **UN proper shipping name :** Hypochlorite solution
- **Transport hazard class :** 8
- **Packing group :** III
- **EmS number :** F-A, S-B
- **Marine pollutant :** Yes

Air transport ICAO/IATA

- **UN Number :** 1791
- **UN proper shipping name :** Hypochlorite solution
- **Transport hazard class :** 8
- **Packing group :** III

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

Phosphonates <5%

Chlorine-based bleaching agents <5%

Cationic surfactants <5%

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
H314 Causes severe skin burns and eye damage
H315 Causes skin irritation.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H411 Toxic 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 Harmonized 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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This version contains changes from the previous one in sections: 2, 3, 9, 15, 16

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