

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 & disinfector
- **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 Statements :**

H314: Causes severe skin burns and eye damage.

H400: Very toxic to aquatic life.

- **Precautionary Statements:**

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.

P391: Collect spillage.

P501: Dispose of contents/container to an

approval 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 %	Skin Corr. 1A; H314 Acute Tox. 4; H302	Skin Corr. 1B; H314: 2 % ≤ C < 5 % Eye Irrit. 2; H319: 0,5 % ≤ C < 2 % Skin Corr. 1A; H314: C ≥ 5 % Skin Irrit. 2; H315: 0,5 % ≤ C < 2 %
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).

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 :	12.0 – 13.0
• 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.
• Relative density:	1.12
• Solubility(ies) :	Miscible (in all proportions)
• Partition coefficient: n-octanol/water:	N.A.
• Auto-ignition temperature:	N.A.
• Decomposition temperature:	N.A.
• Viscosity:	-
• Explosive properties:	No
• Oxidizing properties:	No

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:

- May be harmful to the environment due to product's composition as sodium hypochlorite found within product.
- Data not available for product.

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 Other regulatory information:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

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

Control of Substances Hazardous to Health Regulations (COSHH) 2002 SI 2002/2677 and COSHH Essentials: Easy steps to control chemicals - Control of Substances Hazardous to Health Regulations HSG193.

Inventory Status:

Listed in: US(TSCA), Europe (EINECS), New Zealand (NZIoC), Philippines (PICCS), Canada(DSL), China (IECSC),Australia (AICS), Japan (ENCS).

- **HMIS (Hazardous Materials Identification system) classification:**

Health	2
Fire	1
Physical Hazard	1
Personal Protection	D

2 = Temporary or minor injury may occur.

1 = Materials that must be preheated before ignition occur. Includes liquids, solids and semi solids having flash point above 200 °F. (Class III B).

1 = Materials that are normally stable but can be unstable (self-react) at high temperatures and pressures.



- **NFPA :(National Fire Protection Association)**

Health	2
Fire	1
Reactivity	1

2 = Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury

1 = Materials that require considerable preheating, under all ambient temperature conditions, before ignition and combustion can occur

1 = Normally stable, but can become unstable at elevated temperatures and pressures

15.2 Chemical Safety Assessment:

- A chemical safety assessment has been carried out for the substance or the mixture by the supplier (LR)- No

Section 16 – OTHER INFORMATION

16.1 Technical Advice:

- Use data given in this Safety Data Sheet and make an inventory list of all chemicals used in the factory
- Create a Register for Workplace Chemicals;

- Set priorities concerning the safety in the organization
- Create emergency plans for the assessed hazards;
- Organize occupational health care and regular surveys as necessary;
- Organize contacts with authorities/laboratories to create a monitoring system for chemical hazards, and to reliably measure and/or estimate occupational exposures to chemicals when needed;
- Start collecting case studies of accidents and sickness records in the enterprise to create a basis for priority measures in the control of hazards;
- Involve workers in safety organizations, such as the system of Safety Representatives and Committees.
- Do regular inspection using checklists made for the particular chemicals and chemical processes in use;
- Mark and label all chemicals;
- Keep at hand an inventory list of all chemicals handled in the place of work together with a collection of Chemical Safety Data Sheets for these chemicals;
- Train workers to read and understand the Chemical Safety Information, including the health hazards and routes of exposure; train them to handle dangerous chemicals and processes with respect;
- Plan, develop and choose the safe working procedures;
- Reduce the number of people coming into contact with dangerous chemicals;
- Reduce the length of time and/or frequency of exposure of workers to dangerous chemicals;
- Train workers to know and understand the emergency procedures;
- Equip and train workers to use personal protective equipment properly after everything possible has been done to eliminate hazards by means of other methods;

16.2 List of relevant R phrases:

R34- Causes burns

R50 - Very toxic to aquatic organisms

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