# Safety Data Sheet
# TOP DES

## Section 1 - IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

### 1.1 Product identifier

- **Product Name : TOP DES**

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

- **Recommended use :** Disinfection product
- **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)

| | |
|---|---|
| Ox. Liq. 2 | H272 May intensify fire. |
| Skin Dam. 1 | H314 Causes severe skin burns and eye damage. |
| Eye Dam. 1 | H318 Causes serious eye damage. |
| STOT SE 3 | H335 May cause respiratory irritation. |

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

- **Hazard Pictograms:**
- SIGNAL WORD: Danger

GHS03
Oxidizing

GHS05
Corrosion

GHS07
Exclamation mark

- **Hazard determining components of labeling:** :

Peracetic acid
Hydrogen peroxide solution

- **Hazard Statements:**

H272 May intensify fire.
H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation.

- **Precautionary Statements:**

.P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

### 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 |
|---|---|---|---|---|---|
| Hydrogen peroxide solution | 7722-84-1 | 231-765-0 | 10-20% | Ox. Liq. 1; H271<br>Skin Corr. 1A; H314<br>Eye Dam. 1; H318<br>Acute Tox. 4; H302<br>Acute Tox. 4; H332<br>STOT SE3; H335<br>Aquatic Chronic 3; H412 | Eye Dam. 1; H318: 8 % ≤ C < 50 %,<br>Skin Irrit. 2; H315: 35 % ≤ C < 50<br>STOT SE 3; H335: C ≥ 35 % |
| Acetic Acid | 64-19-7 | 200-580-7 | 1-5% | Flam. Liq. 3; H226<br>Skin Corr. 1A; H314 | Eye Irrit. 2; H319: 10 % ≤ C < 25 %<br>Skin Irrit. 2; H315: 10 % ≤ C < 25 % |
| Peracetic Acid | 79-21-0 | 201-186-8 | 1-2% | Flam. Liq. 3; H226<br>Org. Perox. D; H242<br>Skin Corr. 1A; H314<br>Eye Dam. 1; H318<br>Acute Tox. 4; H302<br>Acute Tox. 4; H312<br>Acute Tox. 4; H332<br>STOT SE 3; H335<br>Aquatic Acute 1; H400 | STOT SE 3; H335: C ≥ 1 % |
| Amines, C12-18(even numbered)-alkyldimethyl, N-oxides | 68955-55-5 | 931-341-1 | 0.1-1% | Acute Tox.; H302<br>Skin Irrit.; H315<br>Eye Dam.; H318<br>Aquatic Acute; H400<br>Aquatic chronic; H411 | None |

## Section 4 - FIRST AID MEASURES

### 4.1 Description of First Aid measures:

- **General measures** : Immediately remove any clothing soiled by the product.
- **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**: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
**For safety reasons unsuitable extinguishing agents:** Water with full jet

### 5.2. Special hazards arising from the substance or mixture: Carbon oxides.

### 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 :** For personal protection see section 8.
- **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.
- Prevent formation of aerosols.
- **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.

### 8.2 Exposure Control:

- **Engineering measures:** None
- **Respiratory Protection:** In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Hand Protection:**

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.
**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.
Recommendation of Nitrile rubber. This recommendation is advisory only.
**Penetration time of glove material**: The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**

Tightly sealed goggles.

- **Skin protection:** Corrosion -proof clothing
- **Protective measures :** 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 1%:** <2
- **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)**:** 1.1 (gr /ml)
- **Solubility(water) :** Completely miscible
- **Partition coefficient: n-octanol/water:** N.A.
- **Auto-Ignition temperature:** N.A.
- **Decomposition temperature:** >= 60 °C
- **Viscosity:** N.A
- **Explosive properties:** N.A
- **Oxidizing properties:** yes

## Section 10 - STABILITY AND REACTIVITY

- Reactivity : Product is an oxidizer. Decomposes on heating and may intensify fire.
- Chemical stability : No decomposition if used according to specifications.
- Possibility of hazardous reactions : No dangerous reactions known.
- Conditions to avoid : Heat, flames and sparks.
- Hazardous decomposition products : No data available.
- Incompatible materials : Oxidizing agents, Bases.

## Section 11 - TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects:

- **Acute toxicity** Based on available data, the classification criteria are not met.
- **LD/LC50 values relevant for classification:**

**64-19-7 Acetic acid**

Oral LD50 =3.310 mg/kg (rat)

Dermal LD50 = 1.060 mg/kg (rabbit)

**79-21-0 Peracetic acid**

Oral LD50 500 mg/kg (ATE)

Dermal LD50 1100 mg/kg (ATE)

Inhalative LC50/4 h 11 mg/l (ATE)

**7722-84-1 Hydrogen peroxide solution**

Oral LD50= 500 mg/kg (ATE)

Inhalative LC50/4 h = 11 mg/l (ATE)

### 11.2 Irritation Corrosion:

- Eye: May cause serious eye damage.
- Skin: May cause skin burns.

### 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 :** 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 :** May cause respiratory irritation.
- **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** : UN3149
- **UN proper shipping name** : HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
- **Transport hazard class** : 5.1
- **Subsidiary hazard class** : 8
- **Packing group** : II

### Marine transport (IMDG)

- **UN Number** : UN3149
- **UN proper shipping name** : HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
- **Transport hazard class** : 5.1
- **Subsidiary hazard class** : 8
- **Packing group** : II
- **EmS number** : F-H, S-Q
- **Marine pollutant** : No

### Air transport ICAO/IATA

- **UN Number** : UN3149
- **UN proper shipping name** : HYDROGEN PEROXIDE AND PEROXYACETIC ACID MIXTURE, STABILIZED
- **Transport hazard class** : 5.1
- **Subsidiary hazard class** : 8
- **Packing group** : II

### Additional Transport Information :

- **EAC: 2P**

## 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**

Oxygen based bleaching agents15-30%
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**

  H226 Flammable liquid and vapour.
  H242 Heating may cause a fire.
  H271 May cause fire or explosion; strong oxidiser.
  H272 May intensify fire.
  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.
  H332 Harmful if inhaled.
  H335 May cause respiratory irritation.
  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: 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 Labeling 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
  vPvB: very Persistent and very Bioaccumulative

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