

Section 1 - IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product identifier

- **Product Name :** **PERFORM SP**

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

- **Recommended use :** Cleaning equipment and systems in factories
- **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)

Skin Corr. 1	H314 Causes severe skin burns and eye damage.
Eye Dam. 1	H318 Causes serious eye damage.
Acute Tox.4	H302 Harmful if swallowed.
Met. Corr. 1	H290 May be Corrosive to metals

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

Skin Corr. 1	H314 Causes severe skin burns and eye damage.
Eye Dam. 1	H318 Causes serious eye damage.
Acute Tox.4	H302 Harmful if swallowed.
Met. Corr. 1	H290 May be Corrosive to metals

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

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



- **GHS05 corrosion**

- **Hazard Statements :**
 - **Hazard determining components of labeling:**
 - Tetrasodium ethylenediaminetetraacetate,
 - Potassium hydroxide
 - H 314 Causes severe skin burns and eye damage.
 - H 302 Harmful if swallowed
 - H 290 May be corrosive to metals
- **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.
 - P280 Wear protective gloves/protective clothing/eye protection/face protection.
 - P303+P361+P353- IF ON SKIN (or hair): Remove/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/doctor.
 - P405- Store locked up.
 - P501- Dispose of contents/container in accordance with local/regional/national/ international regulations

Labeling according to the Globally Harmonized System (GHS)

- Hazard pictograms:GHS05
- SIGNAL WORD: Danger
- Hazard –determining components of labeling:
 - Tetrasodium ethylenediaminetetraacetate,
 - Potassium hydroxide
 - H314, H302, H290
- Hazard statements:
 - P101, P102, P103, P280, P303+P361+P353,
 - P305+P351+P338, P310, P405, 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
EDTA tetrasodium salt	64-02-8	200-573-9	5-15%	Acute Tox. 4 H302 ; Eye Dam. 1, H318	-
Potassium hydroxide	1310-58-3	215-181-3	5-15%	Acute Tox. 4, H302; Skin Corr. 1A, H314; Met Corr 1, H290	-
Diethylenetriaminepentaacetic acid	140-01-2	205-391-3	<5%	Acute Tox. 4 H332 Repr. 2 H361, Met Corr 1 H290	-

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 : Use water spray, Dry powder, foam.

5.2. Special hazards arising from the substance or mixture: Carbon oxides, nitrogen oxides (NO_x)

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** : None
- **Respiratory Protection** : None
- **Work Practices** : Keep unprotected persons away.

6.2. Environmental precautions:

- Dilute with plenty of water
- 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, diatomite, acid binders, 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: No special measures required

7.2 Conditions for safe storage:

- Keep container tightly sealed.
- Keep away from heat sources, metals. 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:

- | | |
|----------------------------------|---|
| • 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 break through 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: | Colorless Liquid |
| • Odour: | Faint |
| • Odour threshold: | N.A. |
| • pH 1%: | >10 |
| • Melting point/Freezing point: | - |
| • Initial boiling point and boiling range: | - |
| • Flash point: | - |
| • Evaporation rate: | - |
| • Flammability(solid/gas): | N.A |
| • Upper/lower flammability or explosive limits: | N.A |
| • Vapour pressure: | |
| • Vapour density: | N.A. |
| • Relative density: | 1.165 (gr /ml) |
| • Solubility(water) : | 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: | No |

9.2 Other information:

- **Solvent content:**
Organic solvents: 0.0 %

Water: 74.7 %
VOC (EC) 0.00%

Section 10 - STABILITY AND REACTIVITY

- Reactivity : Stable under recommended storage conditions.
- Chemical stability : No decomposition if used according to specifications.
- Possibility of hazardous reactions : No dangerous reactions known.
- Conditions to avoid : Direct sunlight. Extremely high or low temperatures.
- Hazardous decomposition products : Nitrogen oxides (NOx), Carbon oxides.
- Incompatible materials : Strong oxidizing agents, Strong acids, Alkali metals, Metals, Contact with aluminum, tin and zinc liberates hydrogen gas.

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:**

Potassium hydroxide 1310-58-3

Oral LD50 = 333 mg/kg (rat)

EDTA tetrasodium salt 64-02-8

Oral LD50 : 500 mg/kg (ATE)

Diethylenetriaminepentaaceticacid 140-01-2

Oral LD50 : >2000 mg/kg (rat)

11.2 Irritation Corrosion:

- Eye: cause serious eye damage.
- Skin : strong caustic effect on skin and mucous membranes.

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** : Swallowing will lead to a strong effect on mouth and throat and to the danger of perforation of esophagus and stomach.
- **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:

- 140-01-2 LC50/96h ->100 mg/l (fish)

12.2 Persistence and degradability:

- Possibly hazardous short term degradation products are not likely.

12.3 Bioaccumulative potential:

- No data available

12.4 Mobility in soil:

- Data not available
- **Additional ecological information:**
General notes: Water hazard class 2 (German Regulation) (Self-assessment): 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. Danger to drinking water if even small quantities leak into the ground.

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.
Recommended cleansing agents: Water, if necessary together with cleansing agents.

Section 14 - TRANSPORT INFORMATION:

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

Land transport (ADR/RID)

- **UN Number** : UN1814
- **UN proper shipping name** : 1814 CORROSIVE LIQUID,.
(Potassium Hydroxide solutions mixture)
- **Transport hazard class** : 8 Corrosive substances
- **Packing group** : II

Marine transport (IMDG)

- **UN Number** : UN1814
- **UN proper shipping name** : CORROSIVE LIQUID,
(Potassium Hydroxide solutions mixture)
- **Transport hazard class** : 8 Corrosive substances
- **Packing group** : II
- **EmS number** : F-A, S-B
- **Marine pollutant** : --

Air transport ICAO/IATA

- **UN Number** : UN1814
- **UN proper shipping name** : Corrosive liquid , (Potassium Hydroxide solutions mixture)
- **Transport hazard class** : 8 Corrosive substances
- **Packing group** : II

Additional Transport Information :

- EAC: 2R
- Separated from acids.

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
The product is classified and labeled according to the CLP regulation.

- **Hazard pictograms** GHS05
- **Signal word** Danger
- **Hazard-determining components of labeling:**

Tetrasodium ethylenediaminetetraacetate,
Potassium hydroxide

- **Hazard statements:**
H314 Causes severe skin burns and eye damage.
H302 Harmful if swallowed
H290 May be corrosive to metals

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

P303+P361+P353 IF ON SKIN (or hair): Remove/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/doctor.

P405 Store locked up.

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

- **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**
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye irritation.
- H361 Suspected of damaging fertility or the unborn child.

- H318 Causes serious eye damage..
 - H290 May be corrosive to metals.
 - H332 Harmful if inhaled
 - **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 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
Skin Corr. 1 : Skin corrosion/irritation, Hazard Category 1
Acute Tox. 4: Acute toxicity- Category 4
Eye Dam. 1 : Serious eye damage/eye irritation- Category 1
Met Corr 1 : Metal corrosive
Repr. 2 : Reproductive Toxicity Category 1
- Data compared to the previous version altered.**