Safety Data Sheet
ZOHARPHOS

Section 1 - IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product identifier

- **Product Name :** **ZOHARPHOS**

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

- **Recommended use :** It is used as CIP (ACIDIC) cleaner.
- **Recommended restrictions :** None known

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

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

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

GHS05
Corrosion

- **Hazard Statements :** H314: Causes severe skin burns and eye damage.
- **Precautionary Statements:** P406: Store in corrosive resistant container with a resistant inner liner.
  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/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 if you feel unwell.
  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
phosphoric acid	7664-38-2	231-633-2	>40.0 %	Skin Corr. 1B; H314	H314: C ≥ 25%
water	7732-18-5	231-791-2	Upto 100.0%	Not classified	None

Section 4 - FIRST AID MEASURES

4.1 Description of First Aid measures: Inhalation:

- **General measures :** Consult a physician. Show this safety data sheet to the doctor in attendance.
- **Eye contact :** In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers.
  Seek medical advice.
- **Skin Contact :** Rinse with water and soap.
  Take off immediately all contaminated clothing.
  Consult a doctor if irritation persists.
- **Inhalation :** Breathe fresh air. If breathing discomfort occurs and persists after cessation of exposure, see a medical doctor.
- **Ingestion :** If swallowed, rinse mouth with water (only if the person is conscious).
  Do not induce vomiting.
  Seek medical advice at once.

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

Not defined.

Section 5 - FIRE-FIGHTING MEASURES

5.1. Extinguishing media:

Suitable extinguishing media : Put out the fire using appropriate agents against the surrounding fire.
Unsuitable extinguishing media: None known

5.2. Special hazards arising from the substance or mixture: Hydrogen gas is released in contact with most metals.

5.3. Advice for fire-fighters

- Wear self-contained breathing apparatus and protective suit.
- Evacuate personnel to safe areas. Evacuate personnel and keep upwind of fire.

- Cool closed containers exposed to fire with water spray.

Section 6 - ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

- **Personal Protective Equipment :** Wear personal protective equipment.
- **Skin Protection :** Avoid contact with skin by use of protective equipment. (as mention in section 8.2)
- **Eye Protection :** Wear safety goggles.
- **Respiratory Protection :** Wear personal protective equipment. (as mention in section 8.2)
- **Work Practices :** Wear skin protection suits.

6.2. Environmental precautions:

- Contain and collect spillage with noncombustible absorbent material, (e.g. sand, earth, diatomaceus earth, vermiculite).
- Avoid undiluted spillage entering the sewers, basements or pits and watercourses.

6.3. Methods and material for containment and cleaning:

- Ventilate area and wash spill site after material pickup is complete.
- Throw sand, ashes or powder cement to absorb the liquid.
- Neutralise with slaked lime (calcium hydroxide), sodium carbonate, calcium carbonate or sodium bicarbonate.
- Place in container for disposal according to local / national regulations.

Section 7 - HANDLING AND STORAGE

7.1 Precautions for safe handling

- Wear personal protective equipment. Avoid contact with skin and eyes.
- Avoid contact with skin, eyes (tightly fitting safety goggles) and clothes.

7.2 Conditions for safe storage:

- Store in cool, dry, clean, well, ventilate areas away from alkaline products and metals.
- Do not store under direct sun light.
- Do not pile up the containers.
- Do not store at temperatures close to freezing point.

Compatible materials for storage: Stainless steel 316-L, High-density polyethylene ,Glass.

7.3 Specific end use(s):

- As prescribe in section 1.2

Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters:

8-hour TWA (ACGIH -US / EU): 1 mg/m3

15-min STEL (EU ELV): 2 mg/m3

8.2 Exposure Control:

- **Engineering measures:** Ensure adequate ventilation, especially in confined areas.

- **Respiratory Protection:** Not required to usual works.
  In foggy/vapours situations, use a spreading over all facemask with a suitable inorganic acid filter.
  If product air concentration is not known, use autonomous breathing equipment.
- **Hand Protection:** Wear safety gloves (Neoprene gloves)
- **Eye protection:** Chemical safety goggles to chemical products or a face protection shield.
- **Skin protection:** Use natural rubber boots.
  Use acid resistant protective clothing.
- **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:

- **Apperance:** Colorless Liquid
- **Odour:** Charachteristic
- **Odour threshold:** N.A.
- **pH (1% in water):** 2.0
- **Melting point/Freezing point:** N.A.
- **Initial boiling point and boiling range:** >100^0 C
- **Flash point:** N.A.
- **Evaporation rate:** Slower than Diethyl Ether (estimated)
- **Flammability(solid/gas):** N.A.
- **Upper/lower flammability or explosive limits:** N.A.
- **Vapour pressure:** N.A.
- **Vapour density:** N.A.
- **Relative density:** 1.30±0.05 g/cm3 @ 20°C
- **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 : Exothermic reaction with water.
  Reacts violently with strong alkalis.
  At high temperature formation of phosphorous oxides.
- Chemical stability : Stable under recommended storage and handling conditions.
- Possibility of hazardous reactions : In contact with reactive metals (as steel to carbon & aluminum) may produce hydrogen.

- Conditions to avoid : High temperature
- Hazardous decomposition products : Products contains phosphates
- Incompatible materials : Strong alkali

Section 11 - TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects:

- No data available

11.2 Irritation Corrosion:

- **Eye**: The product may cause eye irritation
- **Skin :** The product causes skin corrosion

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:

- No data available

12.2 Persistence and degradability:

- The anionic surfactants contained in the product are in the mean degradable for at least 90% .

12.3 Bioaccumulative potential:

- No data available

12.4 Mobility in soil:

- Data not available

12.5 Results of PBT and vPvB assessment:

- Inorganic substances like phosphoric acid will not be identified as PBT or vPvB substances as per REACH annex XIII.

12.6 Other adverse effects:

- None

Section 13 - DISPOSAL CONSIDERATIONS:

- **Waste treatment methods** : The neutralised liquid can be spilled in accordance to reglamentary normative (Law regulates emptying wastewater containing phosphorous).
  The residue of the containers or the used container itself should be disposed in accordance with local requirements.
  Sodium carbonate, calcium carbonate and slaked lime (calcium hydroxide) can be used as neutralisers' agents for the material that cannot be eliminated.
  If phosphoric acid is going to be used in aqueous solutions reactions, rinse three times the drum with water.
  Comply with local regulations for disposal.

Section 14 - TRANSPORT INFORMATION:

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

Land transport (ADR/RID)

- **UN Number** : 1805
- **UN proper shipping name** : Phosphoric acid solution
- **Classification code** : C1
- **Transport hazard class** : 8
- **Packing group** : III
- **Labels** : 8

Inland waterway transport (ADN(R))

- **UN Number** : 1805
- **UN proper shipping name** : Phosphoric acid solution
- **Classification code** : C1
- **Transport hazard class** : 8
- **Packing group** : III
- **Labels** : 8

Marine transport (IMDG)

- **UN Number** 1805
- **Classification code** C1
- **Transport hazard class** 8
- **Packing group** III
- **Labels** 8
- **Proper shipping name and description** Phosphoric acid-solution
- **Chemical name** Phosphoric acid
- **EmS number** F-A, S-B
- **Marine Pollutant** No

Air transport ICAO/IATA

- **UN Number** 1805
- **Proper shipping name and description** Phosphoric acid-solution
- **Chemical name** Phosphoric acid
- **Transport hazard class** 8
- **Packing group** III
- **Labels** 8

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 will occur. Includes liquids, solids and semi solids having a flash point above 200 °F (93 °C)
1 = Materials that are normally stable but can become unstable (self-react) at high temperatures and pressures. Materials may react non-violently with water or undergo hazardous polymerization in the absence of inhibitors.

D = 

- **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

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