

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

#### 1.1 Product identifier

- **Product Name :** ACID WASH

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

- **Recommended use :** 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  
Eye Damage Category 1

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

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



GHS05  
Corrosion

**Hazard determining components of labeling:** Phosphoric acid

- **Hazard Statements :** H314 Causes severe skin burns and eye damage.
- **Precautionary Statements:** 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	25-50 %	Skin Corr. 1B; H314	H314: C ≥ 25%

### 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 some 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 mentioned in section 8.2)
- **Eye Protection** : Wear safety goggles.
- **Respiratory Protection** : Wear personal protective equipment. (as mentioned 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, diatomaceous 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.
- Neutralize 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 prescribed in section 1.2

### Section 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 Control parameters:

Phosphoric acid

8-hour TWA (ACGIH -US / EU): 1 mg/m<sup>3</sup>

15-min STEL (EU ELV): 2 mg/m<sup>3</sup>

#### 8.2 Exposure Control:

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

- **Respiratory Protection:** Not required for 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:

- **Appearance:** Colorless Liquid
- **Odour:** Characteristic
- **Odour threshold:** N.A.
- **pH (1% in water):** 2.0
- **Melting point/Freezing point:** N.A.
- **Initial boiling point and boiling range:** >100° 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:** 1.24 g/cm<sup>3</sup> @ 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 & aluminum) may produce hydrogen.

- Conditions to avoid : High temperature
- Hazardous decomposition products : Products contain 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 damage.
- **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 neutralized 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

### 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 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

### 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**  
H314 Causes severe skin burns and eye damage.
- **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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## Safety Data Sheet ACID WASH

ZOHAR DALIA GUARANTEES THAT ITS PRODUCTS COMPLY WITH ITS SALES SPECIFICATIONS.

This information must on no account be used as a substitute for necessary prior tests which alone can ensure that a product is suitable for a given use.

Users are responsible for ensuring compliance with local legislation and for obtaining the necessary certifications and authorizations.

Users are requested to check that they are in possession of the latest version of the present document and ZOHAR DALIA is at their disposal to supply any additional information.