

## 1. Product and Company Identification

**Product Name** : AD-H1  
**Usage** : Concentrated daily use toilet cleaner and sanitizer.  
**Address** : KSA -Khobar – NSH Tower 9<sup>th</sup> floor  
**Phone Number** : +966 50 519 6007  
**E-mail** : [info@maracialsharq.com](mailto:info@maracialsharq.com)  
**Revision date** : Jan, 2021.D  
**Distributed by** : Maraci Alsharq

## 2. Hazards identification

### 2.1. Classification

**Hazard Classification Product:** : **(as sold)** This product considered hazardous component by the 2012 Hazard Communication Standard (29 CFR 1910.1200)  
**(as dilution)** Considered non hazardous.

**Health hazards** **(as sold)** Cause skin corrosion, serious eye damage.  
**(as dilution)** cause eye irritation

**Physical hazards** : May be corrosive to metal.

### 2.2. Label elements

Hazard pictograms :



As sold



As dilution

**Signal Word** : As sold danger  
As dilution: warning

**Hazard Statements** : Causes severe skin burns.  
 Harmful if swallowed  
 Causes serious eye damage  
 May cause respiratory irritation

- Precautionary statements** : Do not breathe dust, fume, gas, mist, vapours or spray.  
Do not eat, drink or smoke when using this product.  
Avoid release to the environment.
- Inhalation** : May cause respiratory irritation
- Ingestion** : Corrosive, causes burns to mouth and throat and stomach
- Eye contact** : Causes serious eye damage.
- Skin contact** : Causes skin irritation and damage

### 3. Composition/information on ingredients

Information on hazardous components

Active ingredients	Conc. %	CAS #
Phosphoric acid	10-15	7664-38-2
Hydrochloric acid	1-10	7647-01-0
Cationic surfactant	10-20	-

### 4. First-aid measures

- Inhalation** : As sold: Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.  
As dilution: get medical attention if symptoms occur.
- Skin contact** : As sold: Immediate medical attention is required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoe, get medical attention if irritation persists after washing.  
As dilution: rinse with plenty of water.
- Eye contact** : As sold: Remove affected person from source of contamination. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes and get medical attention.  
As dilution: rinse with plenty of water.
- Ingestion** : As sold: Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention if any discomfort continues.  
As dilution: Rinse mouth. Get medical attention if symptoms

- Advice to Doctor** : Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. Treat symptomatically
- First Aid Facilities** : First aid kit, emergency body shower and an emergency eye wash station with enough water to flow for at least 15 minutes.

## 5. Fire and explosion measures

- Flammability** : The product is not flammable.
- Suitable Extinguishing Media** : use extinguishing measures that are appropriate to local circumstances and the surrounding environment
- Hazardous combustion products** : If involved in a fire, Ambient fire may liberate hazardous vapors, Thermal decomposition or combustion products may include the following: Carbon oxides Nitrogen oxides (NOx) Sulfur oxides Oxides of phosphorus
- Fire and Explosion** : Not combustible. Many reactions may cause fire or explosion. Gives off irritating or toxic fumes (or gases) in a fire. Risk of fire and explosion on contact with bases, combustible substances, reducing agents, water or organic materials
- Instructions to the Fire Fighters** : Be sure to keep the other surrounding materials away from the fire, suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.
- Personal protective equipment** : As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.
- Standard procedure for chemical fires** : Avoid breathing fire gases or vapors. Evacuate area. Wear protective appropriate equipment. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. If a leak or spill has not ignited, use water spray to disperse vapors' and protect men stopping the leak. Control run-off water by containing and keeping it out of sewers and watercourses. If risk of water pollution occurs, notify appropriate authorities.

## 6. Accidental release measures

(As sold +As dilution)

- Personal precautions** : Ensure adequate ventilation. Evacuate personnel to safe areas, Keep people away from and upwind of spill/leak. Avoid inhalation, ingestion and contact with skin and eyes. When workers are facing concentrations above the exposure limit, they must use appropriate certified respirators. Ensure clean-up is conducted by trained personnel only. Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.
- Methods for Containment & cleaning up** : Small spills: Stop leak if safe to do so. Contain spillage, and then collect with noncombustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations. Flush away traces with water. If necessary: Neutralize the residue with a dilute solution of sodium carbonate.  
Large spills: Clear area of all unprotected personnel. Slippery when spilt. Avoid accidents, clean up immediately. Wear protective equipment to prevent skin and eye contamination and the inhalation of vapors. Work up wind or increase ventilation. Contain - prevent run off into drains and waterways. Use absorbent (soil, sand or other inert material). Collect and seal in properly labeled containers or drums for disposal. If contamination of crops, sewers or waterways has occurred advise local emergency services.
- Environmental Precautions** : Do not allow into any sewer, on the ground or into any body of water. Should not be released into the environment. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

## 7. Handling and storage

- Precautions for safe handling** : Keep container tightly closed. Do not ingest. Do not breathe gas/fumes/vapor/spray. Do not eat, drink or smoke when using this product.  
In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Use only with adequate ventilation and in closed systems. When dissolving or diluting, always add it slowly to the water. Wash thoroughly after work using soap and water.
- Conditions for safe storage, including any incompatibilities** : Store in a cool, dry, well-ventilated place and out of direct sunlight. Store away from foodstuffs. Store away from sources of heat and/or ignition. Store locked up. Store in corrosive resistant container with a resistant inner liner or coated fiberboard drum using a strong polyethylene inner package. Keeps container standing upright. Keep containers closed when not in use. Keep away from incompatibles such as oxidizing agents, combustible materials, metals, alkalis. May corrode metallic surfaces Keep out of the reach of children  
**Incompatible materials:** Chlorine bleach. Incompatible with strong acids and bases. Incompatible with oxidizing agents. Chlorine-based bleaching agents. Ammonia. Rust removers. Vinegar. Contact with metals may evolve flammable hydrogen gas.

## 8. Exposure controls and personal protection

- Exposure Guidelines** : **Phosphoric acid**  
 OSHA\_(PEL) is 1 mg/m<sup>3</sup>  
 NIOSH\_(REL) is 1 mg/m<sup>3</sup>  
 ACGIH: (REL) is 1mg/m<sup>3</sup>\_over an 8-hour and 3 mg/m<sup>3</sup> as a STEL
- Hydrochloric acid**  
 OSHA\_(PEL) is 5 ppm  
 NIOSH\_(REL) is 5 ppm  
 ACGIH: (TLV) is 2 ppm
- Eye/Face protection** : Wear safety glasses with side shields (or goggles). Tight sealing safety goggles. Face protection shield.
- Hand Protection** : Wear protective gloves (Household rubber gloves) . Avoid contact the gloves after removing them  
 Latex gloves are the least expensive and most common type of glove used in occupational settings but not very chemical-resistant.  
 Nitrile gloves have a good, general chemical resistance  
 Neoprene gloves provide excellent chemical resistance to a broad range of hazardous chemicals including acids  
 PVC (polyvinylchloride) has better chemical resistance than other polymers to diluted oxidizing agents such as nitric, chromic, hydrochloric and phosphoric acids.  
 PVA (polyvinyl alcohol) have a weak resistance.
- Skin Protection** : Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.
- Respiratory** : Ensure adequate ventilation, especially in confined areas. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Filter capacity and respirator type depends on exposure levels. Respiratory protection must be provided in accordance with current local regulations.
- Other Personal Protective Wear** : Wear appropriate clothing to prevent any possibility of skin contact.
- Engineering Controls** : Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products.  
 When using do not eat, drink or smoke. Wash Take off all contaminated clothing and wash it before using . Keep away from food, drink and animal feeding stuffs. Contaminated work clothing

should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

## 8. Physical and chemical properties

<b>Appearance</b>	: Clear liquid
<b>Color</b>	: Violet
<b>Odor</b>	: Ocean fruit
<b>PH</b>	: 0.5 – 1.0
<b>Density</b>	: 1.1 -1.2 g/ml
<b>Solubility in Water</b>	: Soluble

## 9. Stability and reactivity

<b>Chemical Stability</b>	: Stable under normal conditions
<b>Condition to Avoid</b>	: Keep away from heat and sources of ignition. Avoid temperatures,
<b>Incompatible Materials</b>	: Chlorine bleach. Incompatible with strong bases, oxidizing agents. Chlorine-based bleaching agents. Ammonia. rust removers. Vinegar. Contact with metals may evolve flammable hydrogen gas.
<b>Hazardous Decomposition Products</b>	: Decomposition products may include the following materials: Carbon oxides Nitrogen oxides (NOx) Sulfur oxides, phosphorus oxides, Thermal decomposition can lead to release of irritating and toxic gases and vapors.
<b>Hazardous Reactions</b>	: Contact with metal may produce hydrogen gas which is flammable. Can react with ammonia and other alkalis to neutralize them. This neutralization reaction produces large amounts of heat which can result in spattering of boiling acid and alkali. can also react with cyanides and other chemicals to produce poison gases (e.g., hydrogen cyanide).

## 10. Toxicological information

<b>Acute Toxicity</b>	: <b><u>Phosphoric acid</u></b> Oral LD50: 1530 mg/kg (rat) Dermal LD50 :2730 mg /kg (rabbit) Inhalation LC50: 709 mg/m <sup>3</sup> (rat,4 hr) <b><u>Hydrochloric Acid</u></b> Oral LD50: 240 mg/kg (estimate) (rat) Oral LD50: 900 mg/kg (rabbit) Dermal LD50 >5010 mg/kg (rabbit) Inhalation LC50: 3124 mg/L 1 H (rat)
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<b>Carcinogenicity</b>	: This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. ACGIH: A4 – Not classifiable as a human carcinogen IARC: 3 – Not classifiable as to carcinogenicity of humans
<b>Information on likely routes of exposure</b>	: Inhalation, eye contact, skin contact, ingestion
<b>Chronic Exposure</b>	: (as sold + as dilution) Health injuries are not known or expected under normal use.
<b>Acute &amp; Chronic Potential Health Effects</b>	: <b>Skin:</b> As sold: Causes severe skin burns. As dilution: Health injuries are not known or expected under normal use <b>Eyes:</b> As sold: Causes serious eye damage As dilution: Causes eye irritation <b>Ingestion:</b> As sold: Causes digestive tract burns, Harmful if swallowed. Swallowing can result in nausea, vomiting, diarrhoea, abdominal pain and chemical burns to the gastrointestinal tract. As dilution: Health injuries are not known or expected under normal use <b>Inhalation:</b> As sold: Avoid breathing vapors or mists. Inhalation of vapors in high concentration may cause irritation of respiratory system As dilution: Health injuries are not known or expected under normal use
<b>Germ Cell Mutagenicity</b>	: The limited information located doesn't suggest that phosphoric acid solutions are mutagenic.
<b>Reproductive Toxicity</b>	: phosphoric acid has been classified as non-hazardous

## 12. Ecological information

**Ecotoxicity effects** : Harmful to aquatic life with long lasting effects, avoid contaminating waterways, may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

**Ecotoxicity of Phosphoric Acid:**  
 Water: Mild water pollutant (surface water). May cause eutrophication. Toxic to plankton. Slightly harmful to bacteria. Slightly harmful to aquatic organisms. pH shift  
 acute toxicity:  
 fish (Lepomis macrochirus) LC50 96 hr is 60 ppm fresh water  
 Fish (Oncorhynchus mykiss) LC50 96 hr is 87 ppm fresh water  
 Daphnia magna EC50 48hr is 105 ppm fresh water  
 Mobility: mobile in soil.  
 Atmosphere: Not classified as dangerous for the ozone layer (Regulation (EC) No 1005/2009). Air pollutant.

**Ecotoxicity of hydrochloric Acid**  
 Water  
 fish LC50 24 hr is 20.5 ppm  
 Daphnia magna LC50 48h is 0,45 ppm  
 Fresh water algae EC50 72h is 0,73 ppm  
 Mobility: Mobile in soils  
 Atmosphere: This product does not contain any known or suspected substance according to ozone layer

**Biodegradability** : The substance is readily biodegradable

**Bioaccumulation** : The product does not contain any substances expected to be bioaccumulating.

### 13. Disposal considerations

**Waste Disposal** : AS Sold: Avoid release to the environment.  
 For small amounts absorb with sand, vermiculite or similar and dispose of to an approved landfill site.  
 Prevent contamination of drains and waterways as aquatic life may be threatened and environmental damage may result.  
**If discarded**, this material and its containers should be treated as hazardous waste according to Directive 2008/98/EC  
 Diluted neutralize material may be flushed to sewer.  
 Do not contaminate ponds, waterways or ditches with chemical or used container. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility  
As dilution: Diluted product can be flushed to sanitary sewer.

**Legislations** : Disposal should be in accordance with applicable regional, national and Local laws and regulations.

**Empty containers** : As sold: This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261). Do not reuse container  
As dilution: Dispose of in accordance with local, state, and federal regulations

## 14. Regulatory information:

<b>TSCA Inventory Status</b>	: All ingredients are listed on the TSCA inventory. Complies
<b>DSCL (EEC)</b>	: All ingredients are listed on the TSCA inventory. Complies
<b>California Proposition 65</b>	: Not Listed
<b>SARA 302</b>	: Not Listed
<b>SARA 304</b>	: Not Listed
<b>SARA 311</b>	: Acute health hazard, Chronic health hazard.
<b>SARA 312</b>	: Acute health hazard, Chronic health hazard.
<b>SARA 313</b>	: This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372
<b>CWA (Clean Water Act)</b>	: This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)
<b>WHMIS Canada</b>	: Class E: Corrosive liquid.

## 15. Transport information

### In accordance with DOT

<b>UN-Number</b>	:	UN1805
<b>Description of the goods</b>	:	Phosphoric acid solution
<b>Transport hazard class(es)</b>	:	8
<b>Packing group</b>	:	III
<b>Environmental hazards</b>	:	Not listed as a marine pollutant under Canadian TDG Regulations, schedule III. The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID)
<b>Special precautions for user</b>	:	Not applicable.

Hazard labels

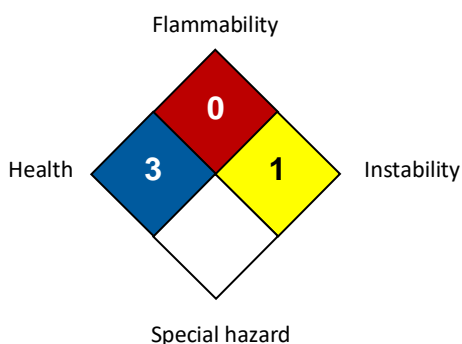
8- Corrosive

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## 16. Other information

NFPA:



HMIS III:

<b>HEALTH</b>	<b>3</b>
<b>FLAMMABILITY</b>	<b>0</b>
<b>PHYSICAL HAZARDS</b>	<b>0</b>
<b>PERSONAL PROTECTION</b>	<b>E</b>

0 = not significant, 1 = Slight,  
2 = Moderate, 3 = High,  
4 = Extreme, \* = Chronic

### HEALTH EFFECTS FROM EXPOSURE:

It should be noted that the effects from exposure to this product will depend on several factors including: frequency and duration of use; quantity used; effectiveness of control measures; protective equipment used and method of application. Given that it is impractical to prepare a report which would encompass all possible scenarios, it is anticipated that users will assess the risks and apply control methods where appropriate.

### PERSONAL PROTECTIVE EQUIPMENT GUIDELINES:

The recommendation for protective equipment contained within this report is provided as a guide only. Factors such as method of application, working environment, quantity used, product concentration and the availability of engineering controls should be considered before final selection of personal protective equipment is made.

The information of this MSDS is based on the present state of our knowledge and on current EEC and national laws. It is always the responsibility of the user to take all necessary steps in order to fulfill the demand laid down in the local rules and legislation. The information in this MSDS is meant as a description of the safety requirements of our product. It is not to be considered as guarantee of the product's properties.

**References:** Not available.

**Other Special Considerations:** Not available.