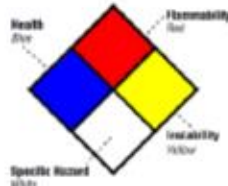
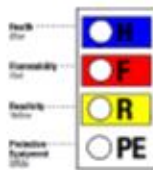


MSDS Number: 4 \* \* \* \* Effective Date: 07/23/2018



H = 3
F = 0
R = 2
PE = H

**HCS -SDS (Hazard Communication Standard- SAFETY DATA SHEET)**

## 1. Product Identification

Section 1: Chemical Product and Company Identification	
<b>Product Name:</b> EASYWAY Descaler Concentrate & Corrosion Inhibitor for Multi-Purpose Applications.	<b>Contact Information:</b>
<b>Trade name/Synonyms:</b> EASYWAY - DESCALER	Easyway International Inc. 11331 East 183 <sup>rd</sup> Street #210 Cerritos ,CA 90703 Ph: 562-443-4462, Fax: N/A
<b>CAS #:</b> Blend	<b>Poison Control Center:</b> 1-877-541-2016 <b>INFOTRAC(24hr Emergency Telephone):</b> 1-800-535-5053
<b>Molecular Weight:</b> N/A	<b>International InfoTrac ph # ( outside USA &amp; Canada ) :</b> 1-352-323-3500
<b>Chemical Formula:</b> N/A a Blend	Note: Use emergency Response Numbers only in the event of Chemical emergencies such as a spill, leak, fire, exposure or accidents involving chemicals
<b>Chemical Family:</b> Acidic Solution	Note: Non-emergency questions should all be directed to Customer Service ( 562-443-4462) for further assistance
<b>Chemical Name:</b> Hydrochloric acid, Corrosion Inhibitor, Phosphonates, & Biodegradable Surfactants Blend	
<b>TSCA:</b> TSCA 8(b) Inventory	
<b>RTECS:</b> N/A	

## 2. Hazards Identification with Hazard Pictograms (GHS-US)

### CORROSIVE & IRRITANT



#### Emergency Overview

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**DANGER! CORROSIVE LIQUID AND MIST MAY CAUSE SEVERE BURNS TO ALL BODY TISSUE on Prolonged Exposure**

SAF-T-DATA<sup>(tm)</sup> Ratings (Provided here for your convenience)

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Health Rating: 3 - Extreme Hazard

Flammability Rating: 0 - None

Reactivity Rating: 1 - Moderate or Hazardous

Contact Rating: 3 - Extreme(Corrosive)

Protective Equip: GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD;  
PROPER GLOVES

Storage Color Code: White (Corrosive)

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#### Potential Health Effects of Over-Exposure

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##### **Inhalation:**

Inhalation of this product for a long period of time may produce damaging effects on the mucous membranes and upper respiratory tract. Symptoms may include irritation of the nose and throat, and labored breathing.

##### **Ingestion:**

Concentrate of this product is considered corrosive. Swallowing can cause severe burns of the mouth, throat, and stomach, leading to possible medical emergency. Accidental swallowing of this product could cause sore throat, vomiting, diarrhea.

##### **Skin Contact:**

It is corrosive to skin. Symptoms of redness, pain, and severe burn can occur.

##### **Eye Contact:**

Concentrate of this product is corrosive. Contact with eyes or eyelids may cause blurred vision, redness, pain and severe tissue burns and irritation.

##### **Chronic Exposure:**

Long-term exposure to mist or vapors may cause damage to teeth.

**Aggravation of Pre-existing Conditions:**

Persons with pre-existing skin disorders or eye problems or impaired respiratory function may be more susceptible to the effects of the product.

**3. Composition/Information on Ingredients**

Ingredient	CAS No	Percent	Exposure Limits in Air		
			ACGIH (TLV)	OSHA (PEL)	
Phosphonates	7664-38-2	10 - 30%	.2mg/m3 (TWA)	1mg/m3 (TWA)	
Hydrochloric Acid	7647-01-0	5 - 40%	.2mg/m3 (TWA)	1mg/m3 (TWA)	
Zinc Chloride	7646-85-7	1 - 1.5	1mg/m3 (TWA)	1mg/m3 (TWA)	
Water	7732-18-5	25 -46%	N/A	N/A	N/A

**4. First Aid Measures****Inhalation:**

Remove person involved to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician immediately.

**Ingestion:**

DO NOT INDUCE VOMITING. Give large quantities of water or milk. Never give anything by mouth to an unconscious person. Call a physician immediately.

**Skin Contact:**

In case of contact with product immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Excess acid on skin can be neutralized with a 2% solution of bicarbonate of soda. Call a physician immediately.

**Eye Contact:**

Immediately flush eyes with gentle but copious stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Call a physician immediately.

**5. Fire Fighting Measures****Fire:**

Concentrated material or product is a strong dehydrating agent. Reacts with organic materials and may cause ignition of finely divided materials on contact.

**Explosion:**

Contact with most metals causes formation of flammable and explosive hydrogen gas.

**Fire Extinguishing Media:**

Dry chemical, foam or carbon dioxide. Do not use water on material. However, water spray may be used to keep fire exposed containers cool.

**Special Information:**

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode. Structural firefighter's protective clothing is ineffective for fires involving this material. Stay away from sealed containers. This could be a possible explosion hazard.

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## 6. Accidental Release Measures

Try to ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Isolate hazard area if possible. Keep unnecessary and unprotected personnel from entering the area. Contain and recover liquid when possible. Neutralize with alkaline material (soda ash, lime), then absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Please "Do not use combustible materials, such as saw dust. Do not flush to sewer! US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802."

## 7. Handling and Storage

Easyway Descaler should be stored in a cool, dry, ventilated storage area with acid resistant floors and good drainage. Protect from physical damage. Keep out of direct sunlight and away from heat, water, and incompatible materials. Do not wash out container and use it for other purposes. When diluting, always add the acid to water; never add water to the acid. It is recommended that whenever opening metal containers with residue of this product try to use non-sparking tools because of the possibility of hydrogen gas being present and an explosion hazard. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product.

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## 8. Exposure Controls/Personal Protection

### **Airborne Exposure Limits:**

For Hydrochloric Acid:

- OSHA Permissible Exposure Limit (PEL) -

1 mg/m<sup>3</sup> (TWA)

- ACGIH Threshold Limit Value (TLV) -

0.2 mg/m<sup>3</sup>(T) (TWA) for Hydrochloric acid –

### **Ventilation System:**

It is highly recommended to use a system of local and/or general exhaust to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH

document, *Industrial Ventilation, a Manual of Recommended Practices*, most recent edition, for details.

**Personal Respirators (NIOSH Approved):**

Whenever the exposure limit is exceeded and engineering controls are not feasible, a full face piece respirator with an acid gas cartridge and particulate filter (NIOSH type N100 filter) may be worn up to 50 times the exposure limit, or the maximum use concentration specified by the appropriate regulatory agency or any credible respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P particulate filter. For emergencies or instances where the exposure levels are not known, use a full-face piece positive-pressure, air-supplied respirator. **WARNING:** Air purifying respirators do not protect workers in oxygen-deficient atmospheres. Where respirators are necessary or required, you must have a written program covering all the basic requirements in the OSHA respirator standard. These include training, fit testing, medical approval, cleaning, maintenance, cartridge change schedules, etc. See 29CFR1910.134 for details.

**Skin Protection:**

Highly recommended to wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

**Eye Protection:**

Wear chemical safety goggles and/or a full face shield where splashing is possible or most likely to occur often. Maintain eye wash fountain and quick-drench facilities in work area.

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## 9. Physical and Chemical Properties

**Appearance:** Clear Medium Yellowish liquid.

**Odor:** with a mild acidic odor.

**Solubility:** Miscible with water 100% may liberate some heat

**Specific Gravity:** 1.08-1.15

**pH (Concentrate) :< 1.00**

**% Volatiles by volume @ 21C (70F):** 16.0%.

**Boiling Point:** 212°F

**Melting Point:** ND

**Vapor Density (Air=1):** 1.267 for Hydrochloric Acid

**Vapor Pressure (mm Hg):** N/A

**Flash Point:** None to Boiling

**Flammable limits:** Upper =0.0, Lower = 0.0

**Evaporation Rate (BuAc=1):** 1.01

**Shelf Life:** 2-3 years with proper storage conditions

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## 10. Stability and Reactivity

**Stability:**

Easyway Descaler is stable under ordinary conditions of use and storage. Concentrated solutions may react with water, and liberating some heat.

**Hazardous Decomposition Products:**

Product may produce toxic fumes of oxides of Chloride when heated to decomposition. Easyway Descaler may react with water or steam to produce toxic and corrosive fumes. It may react with carbonates to generate carbon dioxide gas, and with cyanides and sulfides to form poisonous hydrogen cyanide and hydrogen sulfide respectively.

**Hazardous Polymerization:**

Will not occur.

**Incompatibilities:**

Easyway Descaler may not be compatible with potassium chlorate, potassium perchlorate, potassium permanganate, sodium, lithium, bases, organic material, metal acetyl-ides, oxides and hydrides, metals (yields hydrogen gas), strong oxidizing and reducing agents and many other reactive substances.

**Conditions to Avoid:**

Heat, moisture, incompatibles.

## 11. Toxicological Information

**Toxicological Data:**

N/A

**Carcinogenicity:**

N/A

Ingredient	---NTP Carcinogen---		IARC Category
	Known	Anticipated	
Phosphonates (7664-38-2)	No	No	None
Hydrochloric Acid 7647-01-0	No	No	None
Zinc Chloride (7646-85-7)	No	No	None
Water (7732-18-5)	No	No	None

## 12. Ecological Information

**Environmental Fate:**

Easyway Descaler if released into the soil, this material may leach into groundwater. When released into the air, this material may be removed from the atmosphere to a moderate extent by wet deposition. When released into the air, this material may be removed from the atmosphere to a moderate extent by dry deposition.

**Environmental Toxicity:**

N/A. However this material may be toxic to aquatic life.

## 13. Disposal Considerations

Easyway Descaler, whatever cannot be saved for recovery or recycling should be handled as hazardous waste and sent to a RCRA approved incinerator or disposed in a RCRA approved waste facility. It is very important to note that processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local regulations.

## 14. Transport Information

### Domestic (Land, D.O.T.)

**Proper Shipping Name:** HYDROCHLORIC ACID (WITH LESS THAN 20% ACID)

**Hazard Class:** 8

**UN/NA:** UN 1789

**Packing Group:** II

**Information reported for product/size:** N/A

### International (Water, I.M.O.)

**Proper Shipping Name:** HYDROCHLORIC ACID (LESS THAN 20% ACID)

**Hazard Class:** 8

**UN/NA:** UN 1789

**Packing Group:** II

**Information reported for product/size:** N/A

## 15. Regulatory Information

-----\Chemical Inventory Status - Part 1\-----				
Ingredient	TSCA	EC	Japan	Australia
Phosphonates (7664-38-2)	Yes	Yes	Yes	Yes
Hydrochloric Acid <b>7647-01-0</b>	Yes	Yes	Yes	Yes
Zinc Chloride (7646-85-7)	yes	yes	yes	yes
Water (7732-18-5)	Yes	Yes	Yes	Yes

-----\Chemical Inventory Status - Part 2\-----				
Ingredient	Korea	DSL	--Canada--	
			NDSL	Phil.
Phosphonates (7664-38-2)	Yes	Yes	No	Yes
Hydrochloric Acid <b>7647-01-0</b>	Yes	Yes	No	Yes
Zinc Chloride (7646-85-7)	yes	yes	No	yes
Water (7732-18-5)	Yes	Yes	No	Yes

-----\Federal, State & International Regulations - Part 1\-----				
Ingredient	-SARA 302-		-----SARA 313-----	
	RQ	TPQ	List	Chemical Catg.
Phosphonates (7664-38-2)	1000	1000	Yes	No
Hydrochloric Acid <b>7647-01-0</b>	1000	1000	Yes	No
Zinc Chloride (7646-85-7)	No	No	No	Zinc Compd.
Water (7732-18-5)	No	No	No	No

-----\Federal, State & International Regulations - Part 2\-----			
Ingredient	CERCLA	-RCRA-	-TSCA-
		261.33	8 (d)
- Phosphonates (7664-38-2)	1000	No	No
Hydrochloric Acid <b>7647-01-0</b>	1000	No	No
Zinc Chloride (7646-85-7)	1000	No	No
Water (7732-18-5)	No	No	No

Chemical Weapons Convention: No      TSCA 12 (b): No      CDTA: Yes  
 SARA 311/312: Acute: Yes      Chronic: Yes      Fire: No      Pressure: No  
 Reactivity: Yes      (Pure / Liquid)

**Poison Schedule:** None allocated.

**WHMIS:**

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

## 16. Other Information

**NFPA Ratings:** Health: **3** Flammability: **0** Reactivity: **1** other: **Water reactive.**

**Label Hazard Warning:**

DANGER! CORROSIVE LIQUID AND MIST MAY CAUSE SEVERE BURNS TO ALL BODY TISSUE

**Label Precautions:**

Do not get in eyes, on skin, or on clothing.

Do not breathe mist.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling

**Label First Aid:**

Easyway Descaler health situation, in all cases call a physician immediately. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before re-use. Excess acid on skin can be neutralized with a 2% bicarbonate of soda solution. If swallowed, DO NOT INDUCE VOMITING. Give large quantities of water. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

**Product Use:**

Industrial Application.



**Revision Information:**

SDS Section(s) changed since last revision of document includes the following

**Disclaimer:**

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