


This brief provides a general overview of the **Safety Data Sheet** requirements in the Hazard Communication Standard OSHA's 29 CFR 1910.1200(g) and Appendix D of 29 CFR 1910.1200).

Section 1 ~ Identification

Identity (As Used On Label and List) Q2078 Cycle Renew	Date Prepared: 05-06-2015
Company Information: OMEGA INDUSTRIAL SUPPLY, INC	Emergency Telephone Number: 1-800-424-9300
Address (Number, Street, Suite/Apt#) 101 Grobric Ct #1	Telephone Number for Information: 1-800-571-7347
(City, State, and Zip Code) Fairfield, CA 94534	Signature of Prepare (Optional) REGULATORY DEPT.

Section 2 ~ Hazard(s) Identification

Classification	Skin. Corr. 1B Eye Dam. 1	Causes severe skin burns and eye damage Causes serious eye damage.
Symbols		Signal Word: Danger
Hazard Statements	Causes severe skin burns and eye damage.	
Precautionary Statements	Do not breathe spray, mist or vapors. Wash hands thoroughly after handling. Wear eye protection, protective gloves. If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a doctor. Specific treatment (see first aid section on this label.) Wash contaminated clothing before reuse. Store locked up. Dispose of contents/container to an approved waste disposal plant.	
Other Hazards	No additional information available.	

Section 3 ~ Composition/Information on Ingredients

Components (Specific Chemical Identity, Common Name(s))	CAS No.	GHS-US Classification	% (Wt.)
Phosphoric Acid	7664-38-2	Skin Corr. 1B, H314	12 - 15
Hydrogen Chloride	7647-01-0	Skin Corr. 1B, H314; Eye Dam. 1, H318 STOT SE 3, H335	9 - 9.9
Oxalic Acid	144-62-7	Acute Tox. 4 (Oral), H302; Acute Tox. 4 (Dermal), H312 Skin Corr. 1A, H314; Eye Dam. 1, H318	2 - 4
Tallow Amine	61791-26-2	Acute Tox. 4 (Oral), H302; Skin Irrit. 2, H315 Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410	2 - 4

Full text of H-statements: see section 16

Section 4 ~ First Aid Measures

General — Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Eyes — Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

Skin — Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.

Inhalation — Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Ingestion — Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Most important symptoms and effects, both acute and delayed — Causes severe skin burns and eye damage. Causes serious eye damage.

Indication of any immediate medical attention and special treatment needed — No additional information available

Section 5 ~ Fire Fighting Measures

Suitable Extinguishing Media — Foam, dry powder, carbon dioxide, water spray, sand.

Unsuitable Extinguishing Media — Do not use a heavy water stream.

Reactivity — Corrosive vapors.

Firefighting Instructions — Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.

Protection During Firefighting — Do not enter fire area without proper protective equipment, including respiratory protection.

Section 6 ~ Accidental Release Measures

Personal Precautions, Protective Equipment and Emergency Procedures

For Non-Emergency Personnel — Evacuate unnecessary personnel.

For Emergency Responders — Equip clean-up crew with proper protection. Ventilate area.

Environmental Precautions — Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

Methods and Material for Containment And Cleaning Up — Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Reference to other sections — See heading 8. Exposure controls and personal protection.

Section 7 ~ Handling and Storage

Precautions for Safe Handling — Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Do not breathe vapors, spray, mist.

Storage Conditions — Keep only in the original container in a cool, well ventilated place away from heat sources. Keep container closed when not in use.

Incompatible Products — Strong bases, strong acids.

Incompatible Materials — Sources of ignition. Direct sunlight.

Section 8 ~ Exposure Controls/Personal Protection

Control parameters:

Phosphoric Acid (7664-38-2)		
ACGIH	Remark (ACGIH)	URT, eye & skin irr.
OSHA	OSHA PEL (TWA) (mg/m3)	1 mg/m3
Oxalic acid (144-62-7)		
ACGIH	ACGIH TWA (mg/m3)	1 mg/m3
ACGIH	ACGIH STEL (mg/m3)	2 mg/m3
ACGIH	Remark (ACGIH)	URT, eye & skin irr.
OSHA	OSHA PEL (TWA) (mg/m3)	1 mg/m3
Hydrochloric acid (7647-01-0)		
ACGIH	Remark (ACGIH)	URT irr.
OSHA	OSHA PEL (Ceiling) (mg/m3)	7 mg/m3
OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm



Hand Protection— Wear protective gloves.

Respiratory Protection — Wear appropriate mask.

Other— Do not eat, drink or smoke during use



Eye/face protection— Chemical goggles or face shield.

Appropriate engineering controls/ventilation — Wear protective gloves.

Section 9 ~ Physical Chemical Properties

Boiling Point	No data available	Specific Gravity	-
Relative Vapor density at 20 °C	No data available	Melting/Freezing Point	No data available
Relative Density	No data available	Relative Evaporation rate (butylacetate=1)	No data available
Water: Solubility in water of component(s) of the mixture •	• phosphoric acid: Complete 10 g/100ml • oxalic acid: Complete • hydrochloric acid: Complete	pH	< 2
Appearance and Odor — Blue liquid with mint odor.		VOC%	-
Flash Point (Method Used): No data available	Auto - Ignition Temperature: No data available	Explosive Limits: No data available	

Section 10 ~ Stability and Reactivity

Stability: Not established	Conditions to Avoid — Direct sunlight. Extremely high or low temperatures.	Possible Hazardous Reactions:	No dangerous reactions known under normal conditions of use.
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Incompatibility (Materials to Avoid) — Strong acids, strong bases.

Hazardous Decomposition or Byproducts — Carbon monoxide, carbon dioxide, thermal decomposition generates: corrosive vapors.

Reactivity — Corrosive vapors.

Section 11 ~ Toxicological Information

Acute Toxicity: Not classified.

Phosphoric Acid (7664-38-2)	
LD50 oral rat	4400 mg/kg (Rat)
ATE US (oral)	4400.000 mg/kg bodyweight
Oxalic Acid (144-62-7)	
ATE US (oral)	500.000 mg/kg bodyweight
ATE US (dermal)	1100.000 mg/kg bodyweight
Tallow Amine 61791-26-2)	
LD50 oral rat	500 mg/kg (Rat)
ATE US (oral)	500.000 mg/kg bodyweight

Skin corrosion/irritation: Causes serious eye damage. pH: < 2

Serious eye damage/irritation: Causes serious eye damage. pH: < 2

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Hydrochloric acid (7647-01-0)

IARC group: 3 – Not classifiable.

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) :Not classified

Specific target organ toxicity (repeated exposure): Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and symptoms: Based on available data, the classification criteria are not met.

Symptoms/injuries after eye contact: Causes serious eye damage.

Section 12 ~ Ecological Information

Toxicity:

Phosphoric Acid (7664-38-2)	
LC50 fish 1	138 mg/l (LC50)
Oxalic Acid (144-62-7)	
LC50 fish 1	34.1 mg/l (LC50; 96 h; Pimephales promelas)
EC50 Daphnia 1	137 mg/l (EC50; 48 h)
Hydrogen Chloride (7647-01-0)	
LC50 fish 1	282 mg/l (LC50; 96 h)
EC50 Daphnia 1	< 56 mg/l (EC50; 72 h)

CYCLE RENEW

Persistence and degradability: Not established.

Bioaccumulative potential: Not established

Phosphoric Acid (7664-38-2)

Persistence and degradability: Biodegradability: not applicable. No (test) data on mobility of the components available. Not established.

Biochemical oxygen demand (BOD): Not applicable.

Chemical oxygen demand (COD): Not applicable.

ThOD: Not applicable.

Log Pow: -0.77 (Estimated value)

Bioaccumulative potential: Bioaccumulation: not applicable. Not established.

Oxalic Acid (144-62-7)

Persistence and degradability: Readily biodegradable in water. Readily biodegradable in water in anaerobic conditions. Photolysis in water. Biodegradable in the soil. Photolysis in the air. Not established.

Biochemical oxygen demand (BOD): 0.14 g O₂/g substance.

Chemical oxygen demand (COD): 0.18 g O₂/g substance

ThOD: 0.18 g O₂/g substance

Log Pow: -2.22 - -1.74 (Estimated value)

Bioaccumulative potential: Bioaccumulation: not applicable. Not established.

Hydrogen Chloride (7647-01-0)

Persistence and degradability: Biodegradability: not applicable. No (test)data on mobility of the components available.

Log Pow: 0.3

Bioaccumulative potential: Low potential for bioaccumulation (Log Kow < 4).

Mobility in soil: Ecology – soil. May be harmful to plant growth, blooming and fruit formation.

Tallow Amine (61791-26-2)

Persistence and degradability: Not readily biodegradable in water. Not established.

Bioaccumulative potential: Not established.

Other adverse effects: No known ecological damage caused by this product.

Other information: Avoid release to the environment.

Section 13 ~ Disposal Considerations

Waste Disposal Recommendations — Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials — Avoid release to the environment.

Section 14 ~ Transport Information

US Depart. of Transportation (DOT)		Water Transportation (IMDG)		Air Transportation (IATA)	
Proper Shipping Name:	Hydrochloric acid	Proper Shipping Name:	Hydrochloric acid	Proper Shipping Name:	Hydrochloric acid

Hazard Class: 8 - Class 8 - Corrosive material
49 CFR 173.136
UN Number: 1789
Hazard Label 8 - Corrosive, Ltd. Qty.



Packaging Group: II - Medium Danger

Hazard Class: 8 - Class 8 - Corrosive material 49
CFR 173.136
UN Number: 1789
Class 8 - Corrosive substances

Packaging Group: III - Substances presenting low
danger.

Hazard Class: 8 - Class 8 - Corrosive material 49
CFR 173.136
UN Number: 1789
Class 8 - Corrosives

Packaging Group: III - Minor danger.

Section 15 ~ Regulatory Information

US Federal Regulations: All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Hydrogen Chloride CAS No 7647-01-0 9 - 9.9%

Phosphoric Acid (7664-38-2) — Not subject to reporting requirements of the United States SARA Section 313. RQ (Reportable quantity, section 304 of EPA's List of Lists): 5000 lb.

Hydrogen Chloride (7647-01-0) — Not subject to reporting requirements of the United States SARA Section 313. RQ (Reportable quantity, section 304 of EPA's List of Lists): 5000 lb. SARA Section 302 Threshold Planning Quantity (TPQ): 500 lb.

CANADA: No additional information available

EU-Regulations: No additional information available

National Regulations: No additional information available

US State Regulations: California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

Phosphoric acid (7664-38-2)	Oxalic acid (144-62-7)	Hydrochloric acid (7647-01-0)
Massachusetts - Right To Know List	New Jersey - Right to Know Hazardous Substance List	New Jersey - Right to Know Hazardous Substance List
New Jersey - Right to Know Hazardous Substance List		Pennsylvania - RTK (Right to Know) List
Pennsylvania - RTK (Right to Know) List		

Section 16 ~ Other Information

Full Text of H-phrases;	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
Training Advice	Normal use of this product shall imply use in accordance with the instructions on the packaging.
Other info	None

	NFPA	HMIS	Key
HEALTH	2	2	4= Severe
FLAMMABILITY	0	0	3= Serious
REACTIVITY	1	1	2= Moderate
OTHER/PROTECTION			1= Slight
			0= Minimal

DISCLAIMER: No representation or warranty, either expressed or implied, of merchantability, fitness for a particular purpose, or of any other nature, is made with respect to information concerning the product referred to in this document. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, it is impossible to foresee every health effect or exposure risk incurred by the use of this product. All chemicals present some degree of hazard and should be used with caution. The information and recommendations contained herein are presented in good faith. The user should review this information in conjunction with their knowledge of the application intended to determine the suitability of this product for such purpose. In no event will the supplier be responsible for any damages of any nature whatsoever, resulting from the use, reliance upon, or the misuse of this information. Furthermore, it is the direct responsibility of the user to comply with all applicable regulations governing the use and disposal of this material.