

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Code 47180415
Trade Name SOLDERON ACID
Manufacturer/Supplier Shipley Company
Address 455 Forest St.
Marlborough, Massachusetts 01752
Phone Number (508) 481-7950
Emergency Phone Number (508) 481-7950
Chemtrec # (800) 424-9300
MSDS first issued 30 September 1999
MSDS data revised
Prepared By: Environmental, Health & Safety Department
Local Sales Company Shipley Company, 455 Forest Street, Marlboro, MA 01752
(508-481-7950)

2. COMPOSITION/INFORMATION ON THE INGREDIENTS

Components without CAS numbers are Trade Secret

Table with 3 columns: Component Name, CAS# / Codes, Concentration. Rows include Sulfonic Acid (40.00 - 65.00) and water (35.00 - 60.00).

3. HAZARD IDENTIFICATION

Main Hazards - Corrosive - Skin - Eye - Respiratory System
Routes of Entry Inhalation, ingestion, eye and skin contact.
Carcinogenic Status Not considered carcinogenic by NTP, IARC and OSHA
Target Organs - Eye - Skin - Respiratory System
Health Effects - Eyes Liquid will cause severe conjunctival irritation, corneal damage, and may result in loss of vision. Vapor or mist will cause severe conjunctival irritation and corneal damage.
Health Effects - Skin Material will cause chemical burns.
Health Effects - Ingestion Swallowing may have the following effects:
Health Effects - Inhalation Exposure to mist at high concentrations may have the following effects:
- severe irritation to nose, throat and respiratory tract and possibly lung damage

4. FIRST AID MEASURES

First Aid - Eyes Immediately flush the eye with plenty of water for at least 20 minutes, holding the eye open. Obtain medical attention immediately.
First Aid - Skin Immediately flush the skin with large quantities of water, preferably under a shower. Remove contaminated clothing while flushing skin. Continue washing for at least 20 minutes. Contaminated clothing should be washed or dry-cleaned before re-use. Obtain medical attention immediately.
First Aid - Ingestion Wash out mouth with water. Have victim drink 1-3 glasses of water to dilute stomach contents. Do not induce vomiting. Obtain medical attention immediately.
First Aid - Inhalation Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately
Advice to Physicians Treat symptomatically. Treat skin burns conventionally.

5. FIRE FIGHTING MEASURES

Extinguishing Media Use water spray, foam, dry chemical or carbon dioxide.
Special Fire-Fighting Procedures This product may give rise to hazardous vapors in a fire.
Unusual Fire & Explosion Hazards None known.
Protective Equipment for Fire-Fighting Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Spill Procedures Spills may be absorbed with appropriate absorbent material for acid solutions. Transfer into suitable containers for recovery or disposal.
Personal Precautions Wear appropriate protective clothing. Wear respiratory protection.
Environmental Precautions Prevent the material from entering drains or water courses. Advise Authorities if spillage has entered water course or sewer or has contaminated soil or vegetation.

7. HANDLING AND STORAGE

Handling Use local exhaust ventilation. Avoid contact with eyes, skin and clothing. Emergency shower and eye wash facilities should be readily available. Avoid inhaling vapor. Keep container tightly closed when not in use.
Storage Store in original containers. Storage area should be:
- cool - dry - well ventilated - out of direct sunlight - away from incompatible materials

Other
None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards
Sulfonic Acid None assigned.
Engineering Control Measures Engineering methods to prevent or control exposure are preferred. Methods include process or personnel enclosure, mechanical ventilation (local exhaust), and control of process conditions.
Respiratory Protection Respiratory protection if there is a risk of exposure to high vapor concentrations. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.
Hand Protection Neoprene gloves. Other chemical resistant gloves may be recommended by your safety professional.
Eye Protection Chemical goggles and face shield.
Body Protection - rubber or neoprene apron

9.	PHYSICAL AND CHEMICAL PROPERTIES	
	Physical State	Liquid
	Color	Clear Colorless - Pale Yellow
	Odor	Odorless - sulfur trioxide
	VOC (g/l)	0.0
	Specific Gravity	1.24-1.28
	pH	<1.0
	Boiling Range/Point (°C/F)	Not determined.
	Flash Point (PMCC) (°C/F)	Not Flammable
	Explosion Limits (%)	Not applicable.
	Solubility in Water	Completely soluble.
	Vapor Density (Air = 1)	Heavier than air.
	Evaporation Rate	Slower than ether
	Vapor Pressure	Equivalent to water.
10.	STABILITY AND REACTIVITY	
	Stability	Stable under normal conditions.
	Conditions to Avoid	- contact with incompatible materials - High temperatures
	Incompatibilities	- Strong oxidizing agents - Alkalis - Cyanides - sulfides - Metals
	Hazardous Polymerization	Will not occur.
	Hazardous Decomposition Products	- carbon monoxide - Carbon Dioxide - oxides of sulfur - acidic fumes
		CONTACT WITH METALS MAY EVOLVE FLAMMABLE HYDROGEN GAS.
11.	TOXICOLOGICAL INFORMATION	
	Acute Data	Sulfonic Acid: Oral LD50 (rat) 2000mg/kg. Single application to the rabbit eye produced severe conjunctival irritation and corneal damage. A single 4h semi-occlusive application to intact rabbit skin produced burns (full thickness destruction of skin).
	Chronic/Subchronic Data	No relevant studies identified.
	Genotoxicity	No relevant studies identified.
	Reproductive/Developmental Toxicity	No relevant studies identified.
	Additional Data	None.
12.	ECOLOGICAL INFORMATION	
	Mobility	The product will dissolve rapidly in water. The product is poorly absorbed onto soils or sediments. The product will leach into soil.
	Persistence/Degradability	The product is expected to be readily biodegradable.
	Bio-accumulation	Product is not expected to bioaccumulate.
	Ecotoxicity	The product may be harmful to aquatic organisms.
13.	DISPOSAL CONSIDERATIONS	
	Product Disposal	Dispose of in accordance with all applicable local and national regulations. If discarded in its purchased form, this product would be considered a RCRA hazardous waste because it exhibits the corrosivity characteristic (D002).
	Container Disposal	Labels should not be removed from containers until they have been cleaned. Empty containers may contain hazardous residues. Dispose of containers with care.
14.	TRANSPORT INFORMATION	
	DOT Ground:	Corrosive liquid, acidic, organic, n.o.s.
	UN Proper Shipping Name	Corrosive Liquid, acidic, organic, n.o.s.
	UN Class	(8) Corrosive
	UN Number	UN3265
	UN Packaging Group	II
	N.O.S. 1:	Sulfonic Acid
	N.O.S. 2:	Not applicable.
	Subsidiary Risks	None.
	ADR/RID Substance Identification Number	CLASS 8 - 42(b)
	CERCLA RQ	None.
	Marine Pollutant	None.
15.	REGULATORY INFORMATION	
	TSCA Listed	All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume Exemption has been granted in accordance with 40 CFR 723.50. This product is not subject to a Section 5(e) Consent Order or Significant New Use Rule (SNUR).
	TSCA Exemptions	
	TSCA Sec.12(b) Export Notification	This product does not contain any substances subject to Section 12(b) export notification.
	WHMIS Classification	E
	MA Right To Know Law	All components have been checked for inclusion on the Massachusetts Substance List (MSL). Those components present at the de minimus concentration have been identified in the hazardous ingredients section of the MSDS.
	California Proposition 65	This product does not contain materials which the State of California has found to cause cancer, birth defects or other reproductive harm.
	SARA TITLE III-Section 311/312 Categorization (40 CFR 370)	Immediate health hazard
	SARA TITLE III-Section 313 (40 CFR 372)	This product does not contain a chemical which is listed in Section 313 at or above de minimis concentrations.
16.	OTHER INFORMATION	
	NFPA Rating- FIRE	0
	NFPA Rating- HEALTH	3
	NFPA Rating- REACTIVITY	1
	NFPA Rating- SPECIAL	None.

Revisions Highlighted

Abbreviations

CAS#: Chemical Abstract Services Number

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

NTP: National Toxicology Program

IARC: International Agency for Research on Cancer

R: Risk

S: Safety

LD50: Lethal Dose 50%

LC50: Lethal Concentration 50%

BOD: Biological Oxygen Demand

Koc: Soil Organic Carbon Partition Coefficient.

TLM: Median Tolerance Limit

Disclaimer

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