

**SECTION 1 - IDENTIFICATION**

**Product Identifier:** Merax 1070

**Product Use:** Closed Loop Treatment

**Common Names:**

Merax Engineering, Inc.  
601 Van Ness Ave. E3-725  
San Francisco, CA 94102  
USA  
(415)240-4918  
orders@merax.com

**24 Hr. Emergency #:** ChemTrec (800) 424-9300

**SECTION 2 - HAZARDS IDENTIFICATION****Classification of the Substance or Mixture:**

Skin Corrosion/Irritation – Category 2  
Acute Toxicity, Oral – Category 4  
Specific Target Organ Toxicity, Single Exposure, Respiratory – Category 3  
Serious Eye Irritation – Category 2



**Signal Word:** WARNING

**Hazard Statement(s):**

H302: Harmful if swallowed.  
H315: Causes skin irritation.  
H319: Causes serious eye irritation.  
H335: May cause respiratory irritation.

**Precautionary Statements:****Prevention-**

P221: Take any precaution to avoid mixing with combustibles.  
P261: Avoid breathing dust/fume/gas/mist/vapors/spray.  
P262: Do not get in eyes, on skin, or on clothing.  
P264: Wash skin thoroughly after handling.  
P270: Do not eat, drink or smoke when using this product.  
P271: Use only outdoors or in a well-ventilated area.  
P280: Wear protective gloves/protective clothing/eye protection/face protection.

**Response-**

P301+330+312: IF SWALLOWED: Rinse mouth. Call a POISON CENTER or doctor/physician if you feel unwell.  
P303+352: IF ON SKIN (or hair): wash with plenty of soap and water.  
P304+340: IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.  
P305+351+338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.  
P337+313: If eye irritation persists, get medical advice/attention.  
P363: Wash contaminated clothing before reuse.

**Storage-**

P403+233: Store in a well ventilated place. Keep container tightly closed.  
P405: Store locked up.

**Disposal-**

P501: Dispose of contents/container to an approved waste disposal plant.

**SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS**

Ingredient(s)	CAS No.	Concentration (%)
Silicic Acid	1344-09-8	28.38%

**SECTION 4 - FIRST-AID MEASURES**

<b>Inhalation:</b>	In case of unconsciousness place patient stably in side position for transportation.
<b>Skin Contact:</b>	Immediately wash with water and soap and rinse thoroughly. Wash clothing before reuse.
<b>Eye Contact:</b>	Rinse opened eye for several minutes under running water. Then consult a doctor.
<b>Ingestion:</b>	Do not induce vomiting; immediately call for medical help.
<b>Most Important Symptoms And Effects, Both Acute And Delayed:</b>	No data available.
<b>Indication Of Any Immediate Medical Attention And Special Treatment Needed:</b>	No data available.

**SECTION 5 - FIRE-FIGHTING MEASURES**

<b>Suitable Extinguishing Equipment:</b>	Dry Chemical Carbon Dioxide Water Fog Foam
<b>Special Hazards Arising From The Substance Or Mixture:</b>	No data available.
<b>Special Protective Equipment And Precautions For Firefighters:</b>	Firefighters should wear an approved self-contained breathing apparatus (SCBA). Use water spray to cool unopened containers. Use caution. See Section 7 for more information on safe handling. See Section 8 for more information on personal protection equipment. See Section 13 for disposal information.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions, Protective Equipment, And Emergency Procedures:</b>	Wear appropriate PPE. Keep from contacting skin or eyes. Ensure adequate ventilation. Evacuate personnel to safe areas. Stay upwind of spilled material.
<b>Environmental Precautions:</b>	Prevent further release (leakage/spillage) if safe to do so. Do not allow product to enter drains. Do not allow to drain to environment.
<b>Methods And Materials For Containments And Cleaning Up:</b>	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust) or pillows, pads, and absorbing berms. Dispose of contaminated material according to Section 13. Ensure adequate ventilation. Following product recovery, flush area with water.
<b>Reference To Other Sections:</b>	See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for information on proper disposal.

**SECTION 7 - HANDLING AND STORAGE**

<b>Handling Precautions:</b>	Avoid contact with eyes, skin, or clothing. Keep containers closed when not in use. Do not expose containers to open flame, excessive heat, or direct sunlight. Do not puncture or drop containers. Handle with care and avoid spillage on the floor.
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Keep material out of reach of children.  
 Keep material away from incompatible materials.  
 Wash thoroughly after handling.  
 Ensure adequate ventilation.

**Storage Requirements:** Keep container tightly closed.  
 Store in a well-ventilated place.  
 Avoid storage in direct sunlight.  
 Do not store in aluminum, fiberglass, copper, brass, zinc, or galvanized containers.

**Incompatible Materials:** Strong acids, reactive metals, and ammonium salts.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Exposure Limits:**

<u>Component(s)</u>	<u>CAS No.</u>	<u>PEL</u>	<u>OSHA Ceiling</u>	<u>STEL</u>	<u>REL</u>	<u>NIOSH Ceiling</u>	<u>TLV</u>	<u>ACGIH Ceiling</u>
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**Engineering Controls:**

All ventilation should be designed in accordance with OSHA standard (29 CFR 1910.94).  
 Use local exhaust at filling zones and where leakage and dust formation is probable. Use mechanical (general) ventilation for storage areas.  
 Use appropriate ventilation as required to keep Exposure Limits in Air below TLV & PEL limits.

**Personal Protective Equipment:**

All safety equipment should be tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Type of protective equipment should be selected based on concentration amount and conditions of use of this material. Full-face vapor respirator may be required as backup to engineering controls when proper engineering controls are not in place to keep TLV and PEL limits below defined thresholds. Respiratory protection must comply with 29 CFR 1910.134.

**Eye/Face-**

- Safety glasses or goggles (chemical-resistant).

**Skin/Body-**

- Gloves (PVC, neoprene, or nitrile).

**Respiratory-**

- N/A

**General Hygiene Considerations-**

- Handle in accordance with good industrial hygiene and safety practice.
- Keep away from foodstuffs, beverages, and feed.
- Wash face, hands, and any exposed skin thoroughly after handling.
- Appropriately dispose of contaminated clothing; wash before re-use, if applicable.
- Avoid contact with eyes, skin, and clothing.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

<b>Form:</b> Liquid	<b>Vapor Pressure (Mm Hg):</b> No data available.
<b>Color:</b> Clear	<b>Vapor Density:</b> No data available.
<b>Odor:</b> Slight Musty	<b>Relative Density:</b> 11.5 lbs/gal
<b>pH:</b> 11.3	<b>Specific Gravity:</b> 1.37
<b>Melting/Freezing Point:</b> No data available.	<b>Solubility in Water:</b> No data available.
<b>Initial Boiling Point and Boiling Range:</b> No data available.	<b>Partition Coefficient (N-Octanol/Water):</b> No data available.
<b>Flash Point:</b> No data available.	<b>Auto Ignition Temperature:</b> N/A
<b>Evaporation Rate:</b> No data available.	<b>Decomposition Temperature:</b> No data available.
<b>Flammability (Solid, Gas):</b> No data available.	<b>Viscosity:</b> No data available.
<b>Upper/Lower Flammability or Explosive Limits:</b> No data available.	<b>Volatiles (% By Weight):</b> No data available.
	<b>Volatile Organic Compounds (VOC's):</b> No data available.

**SECTION 10 - STABILITY AND REACTIVITY**

**Reactivity:** Not reactive under normal and ambient conditions

**Chemical Stability:** Stable under normal and ambient conditions.

**Possibility of Hazardous Reactions:** No data available.

**Conditions to Avoid:** Heat, flames, ignition sources, and incompatibles.

**Incompatible Materials:** Strong acids, reactive metals, and ammonium salts.

**Hazardous Decomposition Products:** Hydrogen.

## SECTION 11 - TOXICOLOGICAL INFORMATION

<b>Routes of Entry:</b>	Eyes, inhalation, ingestion.
<b>Acute Toxicity:</b>	
Oral Toxicity (LD <sub>50</sub> )-	1,280 mg/kg (Rat)
<b>Primary Eye Irritation:</b>	Causes irritation.
<b>Primary Skin Irritation:</b>	Causes irritation.
<b>Sensitization:</b>	No data available.
<b>Carcinogenicity:</b>	
IARC-	No ingredients listed.
ACGIH-	No ingredients listed.
NTP-	No ingredients listed.
OSHA-	No ingredients listed.
<b>Reproductive Toxicity:</b>	Based on available data, no evidence of reproductive toxicity.
<b>Specific Target Organ Toxicity- Single Exposure:</b>	No data available.
<b>Specific Target Organ Toxicity- Repeated Exposure:</b>	No data available.
<b>Aspiration Hazard:</b>	No data available.

## SECTION 12 - ECOLOGICAL INFORMATION

<b>Ecotoxicity:</b>	
Toxicity to Fish (LC <sub>50</sub> )-	Western mosquitofish ( <i>Gambusia affinis</i> ): 2,320 ppm (96 h)
Toxicity to Daphnia and Other Aquatic Invertebrates (EC <sub>50</sub> )-	Water Flea ( <i>daphnia magna</i> ): 247 ppm (96 h)
<b>Persistence and Degradability:</b>	No data available.
<b>Bioaccumulation Potential:</b>	No data available.
<b>Mobility in Soil:</b>	No data available.
<b>Results of PBT and vPvB Assessment:</b>	This substance is not considered to be persistent, bioaccumulating nor toxic (PBT).
<b>Other Adverse Effects:</b>	No data available.

## SECTION 13 - DISPOSAL CONSIDERATIONS

<b>Recommendation:</b>	This product is not a hazardous waste. Do not allow product to reach the sewage system. Disposal must comply with local, state, and federal regulations. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of an NPDES permit.
<b>Cleansing agent:</b>	Water should be used as a cleansing agent to rinse empty containers and/or soiled PPE.

**SECTION 14 - TRANSPORTATION INFORMATION**

**US DOT**

Non-regulated material.

**IMDG**

Non-regulated material.

**IATA**

Non-regulated material.

Limited Quantity: N/A

Excepted Quantity: N/A

**SECTION 15 - REGULATORY INFORMATION**

EPA Registration No.:

Cal DPR Registration No.:

<u>Listed Hazardous Chemical</u>	<u>CAS No.</u>	<u>EPCRA EHS</u>		<u>CERCLA HS</u>	<u>CAA 112r</u>	<u>EPCRA 313</u>	<u>Prop 65 Listed</u>
		<u>RQ (lbs)</u>	<u>TPQ (lbs)</u>	<u>RQ (lbs)</u>	<u>TQ (lbs)</u>		

Legend

EPCRA- Emergency Planning and Community Right-to-Know Act  
 CERCLA- Comprehensive Environmental Response, Compensation and Liability Act  
 CAA- Clean Air Act  
 RQ- Release Quantity  
 TPQ- Threshold Planning Quantity  
 EPA- Environmental Protection Agency  
 DPR- Department of Pesticide Registration

**SECTION 16 - OTHER INFORMATION**












































**NFPA**



NFPA Rating Explanation Guide					
RATING NUMBER	HEALTH HAZARD	FLAMMABILITY HAZARD	INSTABILITY HAZARD	RATING SYMBOL	SPECIAL HAZARD
4	Can be lethal	Will vaporize and readily burn at normal temperatures	May explode at normal temperatures and pressures	ALK	Alkaline
3	Can cause serious or permanent injury	Can be ignited under almost all ambient temperatures	May explode at high temperature or shock	ACID	Acidic
2	Can cause temporary incapacitation or residual injury	Must be heated or high ambient temperature to burn	Violent chemical change at high temperatures or pressures.	COR	Corrosive
1	Can cause significant irritation	Must be preheated before ignition can occur	Normally stable. High temperatures make unstable	OX	Oxidizing
0	No hazard	Will not burn	Stable	☢	Radioactive
				☹	Reacts violently or explosively with water
				☹ OX	Reacts violently or explosively with water and oxidizing

**HMIS III**

<b>1</b>	<b>HEALTH</b>
<b>0</b>	<b>FLAMMABILITY</b>
<b>0</b>	<b>REACTIVITY</b>
<b>B</b>	<b>PERSONAL PROTECTION</b>

PERSONAL PROTECTION INDEX							
<b>A</b>			<b>G</b>	 +  + 			
<b>B</b>	 + 		<b>H</b>	 +  +  + 			
<b>C</b>	 +  + 		<b>I</b>	 +  + 			
<b>D</b>	 +  + 		<b>J</b>	 +  +  + 			
<b>E</b>	 +  + 		<b>K</b>	 +  +  + 			
<b>F</b>	 +  +  + 		<b>X</b>	Consult your supervisor or S.O.P. for "SPECIAL" handling directions			
<b>A</b>	 <b>n</b>	 <b>o</b>	 <b>p</b>	 <b>q</b>	 <b>r</b>	 <b>s</b>	
<b>t</b>	 <b>u</b>	 <b>w</b>	 <b>y</b>	 <b>z</b>	Additional Information		
	Safety Glasses	Splash Goggles	Face Shield & Eye Protection	Gloves	Boots	Synthetic Apron	Full Suit
	Dust Respirator	Vapor Respirator	Dust & Vapor Respirator	Full Face Respirator	Airline Hood or Mask		

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