

**Completion Specialties, Inc.**  
P.O. Box 96193  
Oklahoma City, OK 73143

**Emergency Response: 800-535-5053**  
**Information: 405-670-8777**

## MATERIAL SAFETY DATA SHEET

### 1. Chemical Identification

Product: **SP-914**  
General Description: Iron Sequesterant  
Chemical Family: Blend  
Revision Date: February 10, 2012  
Primary Hazard: Corrosive Liquid

Hazard Rating		Rating Scale
Health	2	4 = Extreme
Fire	0	3 = High
Reactivity	0	2 = Moderate
Personal Protection	B	1 = Slight
		0 = Insignificant

### 2. Hazardous Ingredients

Our hazard evaluation has identified the following chemical ingredient(s) as hazardous. One or more component is being claimed as a trade secret under OSHA's Hazard Communication Rule, 29 CFR 1910.1200. Consult section 14 for the nature of the hazard(s).

Ingredient(s)	CAS Number	Approximate Wt. %
Organic Acid	7664-38-2	Confidential

### 3. Handling Precautions

**CAUTION!** Corrosive Liquid. Contains organic acid. May cause burns to skin and eyes. May be harmful if inhaled. Use with adequate ventilation. Do not take internally. Avoid prolonged or repeated breathing of vapor. Avoid contact with skin, eyes or clothing. Keep container closed when not in use. Empty containers may contain residual product. Do not reuse container unless properly reconditioned.

### 4. First Aid Information

**EYES:** Immediately flush with water for at least 15 minutes while holding eyelids open. Call a physician at once.

**SKIN:** Immediately wash exposed area with soap and water for at least 15 minutes. Remove contaminated clothing. For a large splash flood body under a shower. If symptoms persist, seek medical attention. Launder clothes before reuse.

**INGESTION:** Do not induce vomiting. Give water if conscious. Call a physician at once. If victim is drowsy or unconscious, do not induce vomiting or give anything by mouth; place victim on the left side with the head down. If possible, do not leave victim unattended.

**INHALATION:** Remove to fresh air. If breathing is difficult, administer oxygen. Treat symptoms. Keep victim warm and quiet. Seek immediate medical attention.

**CAUTION:** If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

#### Note To Physicians

This product is acidic which can cause burns to the area contacted. Probable mucosal damage may contraindicate the use of gastric lavage.

### 5. Health Effects Information

**Primary Route(s) Of Exposure:** Eye, Ingestion, Inhalation, Skin

**Eye Contact:** Corrosive to the eyes with possible permanent damage depending on the length of exposure and on the first aid action given. Symptoms may include stinging, tearing, redness and swelling.

**Skin Contact:** Corrosive to the skin, possibly resulting in burns depending on the length of exposure and on the first aid action given. Skin adsorption possible, but harmful effects are not expected from this route of exposure under normal conditions of handling and use.

**Ingestion:** Corrosive liquid. Swallowing this product can cause burns to the mouth, throat and intestinal tract. Swallowing large amounts of this product is harmful, resulting in abdominal distress, nausea, vomiting and diarrhea depending upon the first aid action given. See note to physician, above.

**Inhalation:** Corrosive to the nose, throat and respiratory system. Breathing vapors from this product can also cause nausea, irritation, dizziness, light-headedness, vomiting, fatigue, headache or unconsciousness depending on the length of exposure and the first aid action given.

#### Symptoms

**Of Exposure:** In addition to symptoms listed above, excessive exposure can cause cyanosis (characterized by bluish discoloration of the skin and nails), pulmonary edema (swelling and collection of fluid in the lungs), kidney damage, liver damage, convulsions, coma and death if not properly treated.

**Aggravation Of Existing Conditions:** A review of available data indicates that ethylene glycol may aggravate pre-existing disorders of the kidney and liver.

### 6. Toxicological Information

**Toxicity Studies:** No toxicity studies have been conducted on this product. This material is not listed as a carcinogen by IARC, NTP or OSHA.

## 7. Physical & Chemical Properties

<b>Appearance:</b>	Clear, Amber Liquid	<b>Pour Point:</b>	-30°F
<b>Odor:</b>	Mild	<b>Initial Boiling Point:</b>	212 °F
<b>Specific Gravity:</b>	1.259	<b>Flash Point:</b>	240 °F TCC
<b>Density:</b>	10.5	<b>Vapor Pressure:</b>	0.6 mm HG @ 100 °F
<b>pH (neat):</b>	1.0 – 2.0	<b>Vapor Density:</b>	> 1.0 (Air=1.0)
<b>Viscosity:</b>	4 cst @ 100°F	<b>Evaporation Rate:</b>	1.0 (Butyl Acetate = 1.0)
<b>Solubility:</b>	Water Soluble		

**Note:** These physical properties are typical values for this product and not specifications.

## 8. Fire & Explosion Information

<b>Flash Point:</b>	240°F
<b>Lower Explosive Limit:</b>	3.2%
<b>Upper Explosive Limit:</b>	15.3%

**Extinguishing Media:** Based on NFPA guide, use water fog, dry chemical, foam, carbon dioxide or other extinguishing agent suitable for Class B fires. Use water to cool containers exposed to fire. For large fires, use water spray or fog, thoroughly drench the burning material.

**Unusual Fire And Explosion Hazards:** May evolve carbon dioxide and carbon monoxide under fire conditions. Containers exposed in a fire should be cooled with water to prevent vapor pressure buildup leading to rupture.

## 9. Reactivity Information

**Incompatibility:** Avoid contact with strong oxidizers (eg. Chlorine, peroxides, chromates, nitric acid, perchlorates, concentrated oxygen, permanganates) and strong alkalines (eg. Caustics, amines, bleach) which can generate heat, fires, explosions and the release of toxic fumes.

**Thermal Decomposition Products:** In the event of combustion CO, CO<sub>2</sub> and/or NO<sub>x</sub> may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

## 10. Personal Protection Equipment

**Respiratory Protection:** If it is possible to generate vapors or mists, a NIOSH approved or equivalent respirator is recommended. For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a positive pressure, self-contained breathing apparatus is recommended.

**Ventilation:** General ventilation is recommended. Additionally, local exhaust ventilation is recommended where vapors, mists or aerosols may be released.

**Protective Equipment:** Wear impermeable gloves, boots, apron and face shield with chemical splash goggles. A full slicker suit is recommended if gross exposure is possible.

The availability of an eye wash fountain and safety shower are recommended. If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

## 11. Spill & Disposal Information

In case of transportation accident, call the emergency response phone number: 800-535-5053

### Spill Control And Recovery:

**Small Spills:** Contain with absorbent material, such as clay, soil or any commercially available absorbent. Shovel reclaimed liquid and absorbent into recovery or salvage drums for disposal. Refer to CERCLA in Section 14.

**Large Spills:** Dike and prevent further movement and reclaim into recovery or salvage drums or tank truck for disposal. Refer to CERCLA in Section 14.

For large indoor spills, evacuate employees and ventilate area. Those responsible for control and recovery should wear the protective equipment specified in Section 10. Ventilate area and evacuate employees from exposure if the airborne concentration exceeds the TLV. Refer to Section 14.

Prevent flow/discharge into lakes, ponds, streams, waterways or public water supplies.

**Disposal:** If this product becomes a waste, it meets the criteria of a hazardous waste as defined under the Resources Conservation and Recovery Act (RCRA) 40 CFR 261. Hazardous Waste D001.

As a hazardous liquid waste, it must be solidified with stabilizing agents (such as sand, fly ash, or cement) so that no free liquid remains before disposal to a licensed industrial waste landfill (Hazardous Waste Treatment, Storage and Disposal facility). A hazardous liquid waste can also be incinerated in accordance with local, state and federal regulations.

## 12. Environmental Information

If released into the environment, see CERCLA in Section 14.

## 13. Transportation Information

The proper shipping name and/or hazard class for this product may vary according to packaging, properties and mode of transportation. Typical proper shipping names for this product are:

<b>All Transportation Modes:</b>	Corrosive Liquid N.O.S.
<b>UN/ID Number:</b>	UN-1760
<b>Hazard Class:</b>	Corrosive Liquid
<b>Packing Group:</b>	III
<b>Flash Point:</b>	>240°F
<b>Hazardous Components:</b>	None
<b>RQ lbs:</b>	None
<b>RQ Component(s):</b>	None



**14. Regulatory Information** (continued from page 5)

**Resource Conservation Recovery Act (RCRA), 40 CFR 261 Subpart C & D:**  
Consult Section 11 for RCRA classification.

**Federal Water Pollution Control Act, Clean Water Act, 40 CFR 401.15** (formerly Sec. 307), **40 CFR 116**, (formerly Sec. 311):

None of the ingredients of this product are specifically listed.

**Clean Air Act, Sec 111 (40 CFR60), Sec 112 (40 CFR 61, 1990 Amendments), Sec 611 (40 CFR 82, Class I and II Ozone Depleting Substances):**

None of the ingredients of this product are covered by the Clean Air Act.

**State Regulations:**

**California Proposition 65:**

This product does not contain any substance known to the state of California to cause cancer:

**Michigan Critical Materials:**

This product does not contain any ingredients listed on the Michigan Critical Materials Register.

**State Right To Know Laws:**

This product is regulated in those states using the TLV for organic acid as a criteria for listing.

**15. User's Responsibility**

The information accumulated herein is believed to be accurate based on the information provided, although no guarantee or warranty, either expressed or implied is made as to the accuracy or completeness of this information, whether originating with this company or not. Recipients are advised to confirm in advance of need that the information is correct, applicable and suitable to their circumstances. The conditions or methods of handling, storage, use and disposal of the product and container are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage or use of this information or product. If the product is used as a component in another product, this information may not be applicable.

Prepared By: L.V. Robertson  
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