



SAFETY DATA SHEET

Print date: 02/10/2016

Revision Date: 02/10/2016

Revision Number: 1.02

1. COMPANY AND PRODUCT IDENTIFICATION

Product identifier

Product Name: FERROCOTE® 6130
Product code: 013705-04

Other means of identification

Synonyms No information available

Application

Recommended Use Corrosion Preventive
Uses advised against For industrial use only

Supplier/Manufacturer:

Supplier:
Quaker Chemical Corporation
Quaker Park One
901 Hector Street
Conshohocken, PA 19428
610-832-4000
E-mail: she@quakerchem.com

Emergency telephone number:

* 24 HOUR TRANSPORTATION:
**CHEMTREC: 1-800-424-9300
+703-527-3887 (Call collect outside of US)
* 24 HOUR EMERGENCY HEALTH & SAFETY:
**QUAKER CHEMICAL CORPORATION: (800) 523-7010
(Within US only) Outside of US call (703) 527-3887

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious eye damage/eye irritation

Category 2A

Label Elements

Emergency Overview

WARNING

Hazard Statements

Causes serious eye irritation



Appearance Hazy, Amber

Physical State Liquid

Odor Oily

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
If eye irritation persists: Get medical advice/attention

Hazards not otherwise classified (HNOC)

None known

Other Information

Causes mild skin irritation.

Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS No	Weight %
Mineral Oil*	8012-95-1	80 - 90%
Sulfonic acids, petroleum, sodium salts	68608-26-4	1 - 5%
Sulfonate	Proprietary	<1%

The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "proprietary", the specific chemical identity and percentage of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

General advice:

Show this safety data sheet to the doctor in attendance Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Wash off with soap and water. If symptoms persist, call a physician

Eye contact:

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes
If eye irritation persists, consult a specialist.

Skin contact:

Remove contaminated clothing and shoes. Wash contaminated clothing before re-use. Rinse immediately with plenty of water for at least 15 minutes. If a person feels unwell or symptoms of skin irritation appear, consult a physician. Remove and wash contaminated clothing before re-use. Wash off immediately with soap and plenty of water.

Ingestion:

If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting without medical advice. Never give anything by mouth to an

unconscious person

Inhalation: Move to fresh air in case of accidental inhalation of vapors. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Consult a physician.

Note to physician: Treat symptomatically.

Medical condition aggravated by exposure: Dermatitis.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO₂, water spray or `alcohol` foam.

Specific hazards: Do not allow material to contaminate ground water system.

Special protective equipment for fire-fighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

Specific methods: Water mist may be used to cool closed containers.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapour/dust. Wash thoroughly after handling.

Environmental precautions: Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling

Technical measures/precautions: Provide sufficient air exchange and/or exhaust in work rooms.

Safe handling advice: Do not breathe vapors or spray mist. In case of insufficient ventilation, wear suitable respiratory equipment. Wear personal protective equipment. Avoid contact with skin and eyes. Wash thoroughly after handling.

Storage

Technical measures/storage conditions: Store at room temperature in the original container.

Incompatible products: Strong oxidizing agents

Safe storage temperature: 40 - 100 ° F

Shelf life: 12 months

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components	ACGIH Exposure Limits	OSHA TWA (final)	NIOSH - Pocket Guide
Mineral Oil*	5 mg/m ³	5mg/m ³	5mg/m ³
Calcium carbonate	None	None	10 mg/m ³ (TWA) 5 mg/m ³ (TWA)

Engineering measures: Ensure adequate ventilation

Personal Protective Equipment:

General: Eye Wash and Safety Shower

Respiratory protection: If engineering controls do not maintain airborne concentrations to a level which is adequate to protect worker health, a NIOSH-certified respirator with organic vapor/P100 filter should be worn.

Eye protection: Safety glasses with side-shields

Hand protection: Neoprene gloves

Skin and body protection: Long sleeved clothing

Hygiene measures: Avoid contact with skin, eyes and clothing.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Hazy, Amber
Odor	Oily
Odor Threshold	No information available
pH concentrate:	No information available
pH Dilution	No information available
Melting/freezing point	No information available
Boiling Point/Range	No information available
Flash Point	218 °C / 424 °F
Method	Cleveland Open Cup (COC)
Evaporation rate	No information available

Flammability Limits in Air	
upper flammability limit	No information available
lower flammability limit	No information available
VOC Content Product (lb/gal)	0.0 lb/gal (EPA Method 24) @ 90 F
VOC	SCAQMD VOC: 6.4 g/L
Vapor pressure	No information available
Vapor density	No information available
Specific Gravity (g/cc, 15 C)	0.892
Bulk Density (lb/gal, 15 C)	7.44
Water Solubility	Insoluble
Solubility in other solvents	No information available
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	No information available
Decomposition Temperature	No information available
Kinematic viscosity	20 cSt @ 40°C (104°F)
Dynamic viscosity	No information available
Molecular Weight	No information available

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions.
Conditions to avoid:	None known.
Materials to avoid:	Strong oxidizing agents.
Hazardous decomposition products:	Carbon oxides. Sulphur oxides. Nitrogen oxides (nox).
Hazardous Polymerization:	Not applicable.

11. TOXICOLOGICAL INFORMATION

No toxicological information is available on the product. Data obtained on components are summarized below.

Information on likely routes of exposure

Inhalation	May cause irritation of respiratory tract.
Eye Contact	Irritating to eyes.
Skin Contact	Prolonged contact may cause redness and irritation.

Ingestion

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Components	LD50 Oral	LD50 Dermal	LC50 Inhalation
Mineral Oil*	> 24 g/kg (Rat) Oral LD50 Rat >24 g/kg (Source: NLM_CIP)	-	= 2062 ppm (Rat) 4 h Inhalation LC50 Rat 2062 ppm 4 h (Source: NLM_CIP)
Sulfonic acids, petroleum, sodium salts	-	-	-
Sulfonate	-	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure**Carcinogenicity**

The table below indicates whether each agency has listed any ingredient as a carcinogen

Components	IARC Carcinogens	NTP	OSHA - Select Carcinogens
Mineral Oil*	Not listed as carcinogenic or possibly carcinogenic to humans	Not listed	Not listed as a select carcinogen
Sulfonic acids, petroleum, sodium salts	Not listed	Not listed	Not listed
Sulfonate	Not listed	Not listed	Not listed

Sensitization

No information available.

Mutagenic effects:

No information available.

Reproductive Toxicity

No information available.

Developmental Toxicity

No information available.

Teratogenic

No information available.

**Specific target organ systemic
toxicity (single exposure)**

No information available.

**Specific target organ systemic
toxicity (repeated exposure)**

No information available.

Aspiration hazard

No information available.

Additional information on toxicological effects

MINERAL OIL INFORMATION: Any product containing a substance for which OSHA has established a permissible exposure limit (PEL) is considered hazardous. OSHA has established a PEL of 5 mg/m³ for worker exposure to air borne mists of mineral oils. Therefore, the presence of mineral oils brings this product within the provisions of the OSHA Hazard Communication Standard where the PEL reaches or exceeds 5 mg/m³. Health studies have shown that many petroleum hydrocarbons pose potential human health risks which may vary from person to person. As a precaution, exposure to liquids, vapors, mists or fumes should be minimized.

12. ECOLOGICAL INFORMATION

Components	Ecotoxicity - Fish Species	Ecotoxicity - Freshwater	Ecotoxicity - Water Flea
------------	----------------------------	--------------------------	--------------------------

	Data:	Algae Data:	Data:
Mineral Oil*	No data	No data	No data
Sulfonic acids, petroleum, sodium salts	No data	No data	No data
Sulfonate	No data	No data	No data

8.41765% of the mixture consists of component(s) of unknown hazards to the aquatic environment

Persistence and Degradability No information available.

Bioaccumulation No information available.

Components	Octanol/water partition coefficient
Mineral Oil*	-
Sulfonic acids, petroleum, sodium salts	-
Sulfonate	-

Mobility: No data available

Ozone: No data available

13. DISPOSAL CONSIDERATIONS

Waste from residues/unused products: Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority.

Contaminated packaging: Do not re-use empty containers

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) Sweep up and shovel into suitable containers for disposal

14. TRANSPORT INFORMATION

U. S. DEPARTMENT OF TRANSPORTATION:

Proper shipping name: Not Regulated

TDG (CANADA):

Proper shipping name: Not Regulated

IMDG/IMO:

Proper shipping name: Not Regulated

IATA/ICAO:

Proper shipping name: Not Regulated

15. REGULATORY INFORMATION

Federal Regulations

OSHA Hazard Communication Standard: This product is considered to be hazardous under the OSHA Hazard Communication Standard.

CERCLA/SARA Information:

SARA (311, 312) hazard class: This product possesses the following SARA Hazard Categories:

Immediate Health (Acute): Yes
Delayed Health (Chronic): No
Flammability: No
Pressure: No
Reactivity: No

Components	Hazardous Substances and RQs	Extremely Hazardous Substances and TPQs	SARA 313 Emission Reporting
Mineral Oil*	Not listed	Not listed	Not listed
Sulfonic acids, petroleum, sodium salts	Not listed	Not listed	Not listed
Sulfonate	Not listed	Not listed	Not listed

CERCLA/SARA 313 Emission reporting: This product contains no components subject to the reporting requirements of SARA 313.

Clean Air and Clean Water Acts:

Components	Hazardous Air Pollutants	CWA - Hazardous Substances	CWA - Toxic Pollutants	CWA - Priority Pollutants
Mineral Oil*	Not listed	Not listed	Not listed	Not listed
Sulfonic acids, petroleum, sodium salts	Not listed	Not listed	Not listed	Not listed
Sulfonate	Not listed	Not listed	Not listed	Not listed

U.S. STATE REGULATIONS (RTK):

Components	California Proposition 65	PARTK	MI Critical Materials	NJRTK	MARTK
Mineral Oil*	Not Listed	Present	Not Listed	1437	Present
Sulfonic acids, petroleum, sodium salts	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed
Sulfonate	Not Listed	Not Listed	Not Listed	Not Listed	Not Listed

California Proposition 65 Status: May contain trace amounts of listed chemicals: diethanolamine, methanol.

SCAQMD Rule 1144

SCAQMD Rule 1144 South Coast Air Quality Management District (SCAQMD) Rule 1144: Rule 1144 applies to all persons who manufacture or who use metalworking fluids and direct-contact lubricants in all or parts of the Southern California Counties: Los Angeles, Orange, Riverside and San Bernadino.

Effective 01/01/2012 The Fluid Categories and VOC Limits are:

Direct Contact Lubricant.....50 g/l (0.42 lb/gal)

Metalworking Fluid*

- 1. Metal Forming.....75 g/l (0.63 lb/gal)
- 2. Metal Removal.....75 g/l (0.63 lb/gal)
- 3. Metal Protecting.....50 g/l (0.42 lb/gal)

See Section 9 for the VOCs for this product.

Product is classified as Metal protecting

RCRA Status: Not regulated

CANADIAN REGULATIONS:

Components	CEPA Schedule I	Challenge Substances
Mineral Oil*	Not listed	Not listed
Sulfonic acids, petroleum, sodium salts	Not listed	Not listed
Sulfonate	Not listed	Not listed

INVENTORY STATUS:

United States TSCA Inventory: This product complies with TSCA

Canada DSL/NDSL Inventory List All components are either on the DSL or the NDSL

16. OTHER INFORMATION

Sources of key data used to compile the data sheet: Material safety data sheets of the ingredients.

Prepared by: Quaker Chemical Corporation -Safety, Health and Environmental Affairs Group - US

Revision Date: 02/10/2016

Reason for revision: This data sheet contains changes from the previous version in section(s) 9 (Flash Point).

Personal protection recommendations should be reviewed by purchasers. Workplace conditions are important factors in specifying adequate protection.

Disclaimer

This product's safety information is provided to assist our customers in assessing compliance with safety/health/environmental regulations. The information contained herein is based on data available to us and is believed to be accurate. However, no warranty of merchantability, fitness for any use, or any other warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or the hazards connected with the use of the product. Since the use of this product is within the exclusive control of the user, it is the user's obligation to determine the conditions for safe use of the product. Such conditions should comply with all regulations concerning the product. The company referenced in this Safety Data Sheet assumes no liability for any injury or damage, direct or consequential, resulting from the use of this product unless such injury or damage is attributable to the gross negligence of such company.

End of Safety Data Sheet