



Material Safety Data Sheet

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1. COMPANY AND PRODUCT IDENTIFICATION

Product code: 013315-05
Product name: FERROCOTE® 5856 BF T1

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. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

Components	Weight %	CAS No.	OSHA TWA (final):	ACGIH Exposure Limits:
Severely hydrotreated light distillates	60 - 70%	64742-47-8	None	200 mg/m ³
Dinonylnaphthalenesulfonic acid calcium salt	1 - 5%	57855-77-3	None	None
Mineral Oil*	20 - 30%	8012-95-1	3mg/m ³ 3mg/m ³ 3ppm	10mg/m ³ STEL 5 mg/m ³

* May include one or more of the following CAS #: 64741-88-4, 64741-89-5, 64741-96-4, 64741-97-5, 64742-46-7, 64742-52-5, 64742-53-6, 64742-54-7, 64742-55-8, 64742-56-9 and 64742-65-0.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Irritating to eyes.
May cause skin irritation and/or dermatitis.
Harmful by inhalation and if swallowed.
Flammable.

Principle routes of exposure: Eyes, skin and inhalation.

Signal word: WARNING

Eye contact: Irritating to eyes

Skin contact: Prolonged skin contact may defat the skin and produce dermatitis

Inhalation: May cause irritation of respiratory tract. May cause central nervous system depression characterized by the following progressive steps: headache, dizziness, nausea, staggering gait, confusion and unconsciousness. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. Risk of product entering the lungs on vomiting after ingestion.

Physico-chemical properties: Flammable.

4. FIRST AID MEASURES

General advice: Call a physician immediately. Show this safety data sheet to the doctor in attendance.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician

Skin contact: Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use. Consult a physician if necessary.

Ingestion: Consult a physician. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents. Risk of product entering the lungs on vomiting after ingestion. Never give anything by mouth to an unconscious person.

Inhalation: Move to fresh air in case of accidental inhalation of vapors or decomposition products. If not breathing, give artificial respiration. In case of shortness of breath, give oxygen. Consult a physician.

Notes to physician: This product contains petroleum distillates

Medical conditions aggravated - by exposure None known.

5. FIRE-FIGHTING MEASURES

Flash point (°C): 80 **Flash point (°F):** 176 **Flash Point Method:** COC

Flammable limits in air - lower (%): Not determined **Flammable limits in air - upper (%):** Not determined

Suitable extinguishing media: Carbon dioxide (CO2), Dry chemical, Foam.

Unusual hazards: None known

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: Remove all sources of ignition. Evacuate personnel to safe areas. Use personal protective equipment.

Environmental precautions: Do not flush into surface water or sanitary sewer system.

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).. Ground and bond containers when transferring material.

7. HANDLING AND STORAGE

Handling

Technical measures/precautions: Use only in area provided with appropriate exhaust ventilation. Wear personal protective equipment.

Safe handling advice: To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep container tightly closed. Avoid contact with skin and eyes. Do not breathe vapors or spray mist. Wash thoroughly after handling.

Storage

Technical measures/Storage conditions: Keep containers tightly closed in a cool, well-ventilated place..

Incompatible products: No information available

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 - TWAs:	Vendor Exposure Limits:
Severely hydrotreated light distillates	200 mg/m ³			
Mineral Oil*	10mg/m ³ STEL 5 mg/m ³	3mg/m ³ 3mg/m ³ 3ppm	10mg/m ³ STEL 1800mg/m ³ Ceiling 350mg/m ³ TWA 5mg/m ³ TWA	None

Engineering measures: Provide adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment.

Personal Protective Equipment

General: Eye Wash and Safety Shower

Respiratory protection: In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection: Neoprene gloves

Skin and body protection: Usual safety precautions while handling the product will provide adequate protection against this potential effect.

Eye protection: Safety glasses with side-shields

Hygiene measures:

Avoid contact with skin, eyes and clothing.



9. PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Liquid .
Color:	Clear, Amber
Odour:	Pleasant
Boiling point/range (°C):	>148
Boiling point/range (°F):	>300
Vapor density:	Not determined
Vapour pressure:	Not determined
Solubility:	Insoluble
Evaporation rate:	Not determined
VOC Content Product:	3.48 lb/gal (EPA Method 24)
pH:	NA
Flash point (°C):	80
Flash point (°F):	176
Decomposition temperature:	Not determined
Autoignition temperature:	Not determined
Density @ 15.5 ° C (g/cc) :	0.828
Bulk density @ 60 ° F (lb/gal):	6.91
Partition coefficient (n-octanol/water, log Pow):	Not determined
Explosive properties:	
- upper explosion limit:	No data available
- lower explosion limit:	No data available

10. STABILITY AND REACTIVITY

Conditions to avoid:

Heat, flames and sparks.

Materials to avoid:

Strong oxidising agents

Hazardous decomposition products

Carbon oxides, Sulphur oxides, Nitrogen oxides (nox)

Stability:

Stable under recommended storage conditions.

Polymerization:

Not applicable

11. TOXICOLOGICAL INFORMATION

Reports of animal studies using both sexes of several species have shown that kidney effects can occur in male rats after prolonged and repeated inhalation exposures to light hydrocarbon vapors of the general type represented by this product. While the effects are of low order of severity in animals, the implications of these results have not yet been determined.

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.

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

Components	NTP:	IARC:	OSHA - Select Carcinogens	NIOSH - Selected LD50s and LC50s
Severely hydrotreated light distillates	This product does not contain any material shown to be a carcinogen by the National Toxicology Program (NTP).	This product does not contain any material shown to be a carcinogen by the International Agency for Research on Cancer (IARC).	This product does not contain any material shown to be a carcinogen by OSHA.	
Dinonylnaphthalenesulfonic acid calcium salt	This product does not contain any material shown to be a carcinogen by the National Toxicology Program (NTP).	This product does not contain any material shown to be a carcinogen by the International Agency for Research on Cancer (IARC).	This product does not contain any material shown to be a carcinogen by OSHA.	
Mineral Oil*	This product does not contain any material shown to be a carcinogen by the National Toxicology Program (NTP).	This product does not contain any material shown to be a carcinogen by the International Agency for Research on Cancer (IARC).	This product does not contain any material shown to be a carcinogen by OSHA.	22g/kgOral LD50Mouse 4300mg/kgOral LD50Mouse 4300mg/kgOral LD50Rat

12. ECOLOGICAL INFORMATION

Persistence and degradability: No information available

Mobility: No data available

Bioaccumulation: No data available

Ecotoxicity effects: No data available

Aquatic toxicity: Not Determined

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).. Ground and bond containers when transferring material.

14. TRANSPORT INFORMATION

U. S. DEPARTMENT OF TRANSPORTATION:

Proper shipping name:	Combustible liquid n.o.s.(contains hydrotreated light petroleum distillates)
D.O.T. Hazard Class(es)	3
UN/NA ID Number:	NA 1993
Packing group:	III
Emergency Response Guide Number:	128
DOT Label(s):	For Bulk Packaging Only: Combustible

TDG (CANADA):

Proper shipping name: Not Regulated

IMDG/IMO:

Proper shipping name: Not Regulated

IATA/ICAO:

Proper shipping name: Not Regulated

15. REGULATORY INFORMATION

CLASSIFICATION AND LABELING

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

Canada - WHMIS Classification Information: This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

Product Classification: Class B - Flammable and Combustible Material

Product Classification Graphic(s):



**Component Classification
Data:**

Mineral Oil* - 8012-95-1

WHMIS hazard class:

B2

Uncontrolled product according to WHMIS classification criteria.

U.S. REGULATIONS:

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

Immediate Health (Acute): Yes

Delayed Health (Chronic): Yes

Flammability: Yes

Pressure: No

Reactivity: No

RCRA Status Not Regulated

STATE REGULATIONS (RTK):

Mineral Oil* - 8012-95-1

MARTK:

Present

NJRTK:

sn 2648

PARTK:

[present]

INVENTORY STATUS:

United States TSCA - Sect. 8(b) Inventory: This product complies with TSCA

Canada DSL Inventory List - This product complies with DSL

Canada NDSL Inventory List - NDSL compliance has not been determined

EU EINECS/ELINCS/NLP List - This product complies with EINECS

16. OTHER INFORMATION

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

Reason for revision: New Format

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

HMIS classification:**Health:**

2*

Flammability:

2

Reactivity:

0

Personal Protection:

G

NFPA rating:**Health:**

2

Flammability:

2

Reactivity:

0

Special:

NA

* Indicates possible chronic health effect

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. Quaker Chemical Corporation ("Quaker") 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 Quaker.

End of Safety Data Sheet