



# Material Safety Data Sheet

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## 1. COMPANY AND PRODUCT IDENTIFICATION

**Product code:** 013767-01 02  
**Product name:** FERROCOTE® 5815 LVO

**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	40 - 50%	64742-47-8	None	200 mg/m <sup>3</sup>
Mineral Oil*	20 - 30%	8012-95-1	5mg/m <sup>3</sup>	5 mg/m <sup>3</sup>
Paraffin waxes & Hydrocarbon waxes, Microcrystalline	10 - 15%	63231-60-7	None	2 mg/m <sup>3</sup> (Paraffin wax fume)

\* 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, 64742-62-7 and 64742-65-0, 72623-84-8, 72623-85-9, 72623-86-0, 72623-87-1.

## 3. HAZARDS IDENTIFICATION

### Emergency Overview

Irritating to eyes.  
May cause skin irritation and/or dermatitis.  
May cause irritation of respiratory tract.  
May be harmful if swallowed.

**Principle routes of exposure:** Eyes, skin and inhalation.

**Signal word:** WARNING

**Eye contact:** Irritating to eyes.

**Skin contact:** Repeated or prolonged contact with base product may cause irritation leading to various skin disorders such as dermatitis, oil acne, or folliculitis.

**Inhalation:** Inhalation of vapor (generated at high temperatures only) or oil mist from this product may cause mild irritation of the upper respiratory tract.

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

**Physico-chemical properties:** No hazards resulting from material as supplied.

#### 4. FIRST AID MEASURES

**General advice:** If symptoms persist, call a physician.

**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 condition aggravated by exposure:** None known.

#### 5. FIRE-FIGHTING MEASURES

**Flash point (°C):** 131

**Flash point (°F):** 268

**Flash Point Method:** COC

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

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

**Suitable extinguishing media:**

Use dry chemical, CO<sub>2</sub>, water spray or 'alcohol' 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:** Ensure adequate ventilation.

**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).

## 7. HANDLING AND STORAGE

### Handling

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

**Safe handling advice:** In case of insufficient ventilation, wear suitable respiratory equipment.

### 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:** 6 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 <sup>3</sup>	None	None	Recommended TWA is 1200 mg/m <sup>3</sup> based on total hydrocarbon vapor
Mineral Oil*	5 mg/m <sup>3</sup>	5mg/m <sup>3</sup>	5mg/m <sup>3</sup>	None
Paraffin waxes & Hydrocarbon waxes, Microcrystalline	2 mg/m <sup>3</sup> (Paraffin wax fume)	None	None	None

**Engineering measures:** Ensure adequate ventilation.

### 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:

**Physical state:** liquid @ 100 ° F.

**Color:** brown

<b>Odour:</b>	Bland
<b>Boiling point/boiling range (°C):</b>	>93
<b>Boiling point/range (°F):</b>	>200
<b>Vapour pressure:</b>	Not determined
<b>Vapour density:</b>	Not determined
<b>Solubility:</b>	Insoluble
<b>Evaporation rate:</b>	Not determined
<b>VOC Content Product (g/L):</b>	3.01 lb/gal (EPA Method 24)
<b>pH:</b>	NA
<b>Flash point (°C):</b>	131
<b>Flash point (°F):</b>	268
<b>Decomposition temperature:</b>	Not determined
<b>Auto-ignition temperature:</b>	Not determined
<b>Density @ 15.5 ° C (g/cc) :</b>	0.861
<b>Bulk density @ 60 ° F (lb/gal):</b>	7.19
<b>Partition coefficient (n-octanol/water, log Pow):</b>	Not determined
<b><u>Explosive properties:</u></b>	
- upper limit:	No data available
- lower limit:	No data available

## 10. STABILITY AND REACTIVITY

### Conditions to avoid:

None known

### Materials to avoid:

Strong oxidising agents

### Hazardous decomposition products:

Carbon 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/m<sup>3</sup> 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/m<sup>3</sup>. 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.	
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
Paraffin waxes & Hydrocarbon waxes, Microcrystalline	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.	

## 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:** Take up mechanically and collect in suitable container 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**

**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 D2B - Poisonous and Infectious Material: Other toxic effects - includes irritants, skin sensitizers and/ or chronic health effects

**Product Classification Graphic(s):**



**Component Classification Data:**

**Mineral Oil\* - 8012-95-1**

**WHMIS hazard class:** (Uncontrolled product according to WHMIS classification criteria)  
1 % (English Item 1224, French Item 977)  
B2

**U.S. REGULATIONS:**

**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

**RCRA Status** Not Regulated

**STATE REGULATIONS (RTK):**

California Proposition 65 Status:

No components are listed

**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

**EC EINECS/ELINCS/NLP list:**

Compliance has not been determined

**16. OTHER INFORMATION**

**Sources of key data used to compile the data sheet:**

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:**

**NFPA rating:**

**Health:**

2

**Health:**

2

**Flammability:**

1

**Flammability:**

1

**Reactivity:**

0

**Reactivity:**

0

**Personal Protection:**

G

**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**