

FERROCOTE 711
QUAKER CHEMICAL CORPORATION

Revised 10/03/02

Replaces 10/03/02

Printed 2/11/04

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER:
QUAKER CHEMICAL CORPORATION
ELM STREET
CONSHOHOCKEN, PA 19428-0809
(610) 832-4000

EMERGENCY TELEPHONE NUMBERS:

* TRANSPORTATION:

** CHEMTREC: (800) 424-9300

* EMERGENCY HEALTH & SAFETY INFORMATION:

** QUAKER CHEMICAL CORP: (800) 523-7010

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS NO.	CHEMICAL NAME	PERCENT
64742-52-5	SEVERLY HYDROTREATED HEAVY NAPHTHENIC DISTILLATES	40-45%
64742-47-8	SEVERLY HYDROTREATED LIGHT DISTILLATES	40-45%
61790-48-5	BARIUM PETROLEUM SULFONATE	1-5%

3. HAZARDS IDENTIFICATION

THRESHOLD LIMIT VALUE:

The PEL (OSHA) and the TLV (ACGIH) are 5 mg/m³ for oil mists. Section 2 may list severely hydrotreated distillates, severely solvent refined distillates or some other distillates. These materials are all mineral oils and the exposure limits listed above would apply to these materials.

200 ppm is the TLV for aliphatic hydrocarbon solvent (severely hydrotreated light distillates).

PRIMARY ROUTES OF ENTRY:

Inhalation, Skin Contact, Eye

EYE CONTACT:

Will cause eye irritation

SKIN CONTACT:

Repeated or prolonged contact may cause drying and defatting of the skin or various skin disorders such as dermatitis, oil acne and folliculitis.

INHALATION:

May cause nose and throat irritation. May cause 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.

EFFECTS OF OVEREXPOSURE:

Ingestion: Accidental swallowing of this material can cause irritation of the stomach and digestive tract characterized by nausea, vomiting, and diarrhea. This material is an aspiration hazard and may enter the lungs when swallowing or vomiting and cause serious lung damage.

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3. HAZARDS IDENTIFICATION (Cont.)

4. FIRST AID MEASURES

EYES: Immediately flush with plenty of water for at least 15 minutes. Call a physician.

SKIN: Wash promptly with soap and water. Remove contaminated clothing and shoes. Wash clothing before reuse.

INGESTION: Call a physician promptly. Do not induce vomiting. Never give anything by mouth to an unconscious person.

INHALATION: If inhaled, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Call a physician.

5. FIRE FIGHTING MEASURES

FLASH POINT (METHOD USED): 170 F. (T.C.C.)

FLAMMABLE LIMITS: ND LOWER: ND UPPER: ND

EXTINGUISHING MEDIA:
CO2, Foam, Dry Chemical

SPECIAL FIRE FIGHTING PROCEDURES:
Wear NIOSH/MSHA approved self contained breathing apparatus (SCBA).

UNUSUAL FIRE AND EXPLOSION HAZARDS:
None

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Remove all sources of ignition. Use adequate ventilation to promote drying. Soak up with absorbant material and remove to closed containers. Wash area with mild detergent and water.

ENVIRONMENTAL IMPACT:
NOT DETERMINED

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7. HANDLING AND STORAGE

STORAGE TEMPERATURE (MIN./MAX.):

40 F / 100 F

SHELF LIFE:

6 MONTHS

SPECIAL SENSITIVITY:

NOT DETERMINED

HANDLING AND STORAGE PRECAUTIONS:

Avoid breathing vapor or mist. Use with adequate ventilation. Keep container closed. Do not take internally. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. In case of fire, use water, foam or dry chemical.

OTHER PRECAUTIONS:

None

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION:

Wear safety goggles.

PROTECTIVE GLOVES:

Rubber gloves or other chemically resistant gloves.

RESPIRATORY PROTECTION:

For fire conditions or exposure above TLV: Wear NIOSH/MSHA approved respirators.

VENTILATION REQUIREMENTS:

Local exhaust is recommended.

OTHER PROTECTIVE EQUIPMENT:

Eye wash facility and safety shower recommended

9. PHYSICAL AND CHEMICAL PROPERTIES

BOILING/MELTING POINT:

375-405 F. (SOLVENT)

SPECIFIC GRAVITY (H2O=1):

0.866 @ 60 F.

VAPOR DENSITY (AIR=1)

ND

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9. PHYSICAL AND CHEMICAL PROPERTIES (Cont.)

VAPOR PRESSURE:

ND

PERCENT VOLATILE BY VOLUME (%):

31.3%

PERCENT SOLID BY WEIGHT:

ND

EVAPORATION:

ND

SOLUBILITY IN WATER:

INSOLUBLE

PH:

NA

APPEARANCE AND ODOR:

CLEAR, DARK BROWN LIQUID WITH SOLVENT ODOR

VOLATILE ORGANIC COMPOUND (VOC):

2.21 LBS/GAL (EPA METHOD 24)

10. STABILITY AND REACTIVITY

STABILITY:

Stable

CONDITIONS CONTRIBUTING TO INSTABILITY:

Heat, sparks, open flames, and fire.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

INCOMPATIBILITY:

Strong oxidizers

HAZARDOUS DECOMPOSITION PRODUCTS:

(THERMAL) CO, CO₂, SO_X

11. TOXICOLOGICAL 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

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11. TOXICOLOGICAL INFORMATION (Cont.)

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.

This product does not contain any material shown to be a carcinogen by the National Toxicology Program (NTP), the International Agency for Research on Cancer (IARC) or OSHA.

Laboratory animal studies have shown that prolonged and repeated inhalation exposure to light hydrocarbon vapors in the same naphtha boiling range as this product can produce adverse kidney effects in male rats. However, these effects were not observed in similar studies with female rats and male and female mice and in limited studies with other animal species. Additionally, in a number of human studies, there was no clinical evidence of such effects at normal occupational levels. It is, therefore, highly unlikely that the kidney effects observed in male rats have significant implications for humans exposed at or below the recommended vapor limits in the workplace.

12. ECOLOGICAL INFORMATION

NO DATA AVAILABLE

13. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:

Dispose of in accordance with local, state and federal EPA regulations.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

PROPER SHIPPING NAME:

Combustible Liquid, N.O.S. (contains hydrotreated light petroleum distillates), UN 1993, PG III.

FOR BULK SHIPMENTS ONLY!

D.O.T. HAZARD CLASS:

COMBUSTIBLE LIQUID

UN/NA ID NUMBER:

UN 1993.

EMERGENCY RESPONSE GUIDE NUMBER:

ERG# 128

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15. REGULATORY INFORMATION

TOXIC SUBSTANCES CONTROL ACT (TSCA):

This product and/or all the ingredients contained in this product have been registered under the Toxic Substances Control Act.

R.C.R.A.:

This product does not meet the definitions or contain any substance appearing in the listings contained in 40 CFR 261, "Identification and listing of hazardous waste".

THIS PRODUCT CONTAINS A BARIUM COMPOUND WHICH IS SUBJECT TO THE ANNUAL REPORTING REQUIREMENTS UNDER SECTION 313 OF SARA, TITLE III. CONTACT THE EPA FOR INFORMATION REGARDING THE REPORTING REQUIREMENTS. THE BARIUM CONSTITUENT IN THIS PRODUCT IS CONTAINED AT 1-5%.

This product has been reviewed in accordance with Section 311 (MSDS Inventory and Section 312 (Tier I/II Inventory) of the Superfund Amendment and Reauthorization Act of 1986 (CFR 40 370.2) for "hazard category" status. Under the applicable definitions, this product meets the following categories: Immediate (acute) health hazard, delayed (chronic) health hazard, and fire hazard.

This product does not contain or was not manufactured with any of the EPA Class I or Class II ozone depleting substances.

TRADE SECRET CLAIM IS MADE IN ACCORDANCE WITH SECTION 317.2 OF THE PENNSYLVANIA WORKER AND COMMUNITY RIGHT-TO-KNOW ACT (TITLE 34).

16. OTHER INFORMATION

The information contained in this Material Safety Data Sheet is based on the neat or concentrated product as shipped.

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM RATING (HMIS)

HEALTH* 2

FLAMMABILITY 2

REACTIVITY 0

PERSONAL PROTECTION G

*PERSONAL PROTECTION RECOMMENDATIONS SHOULD BE REVIEWED BY PURCHASERS.
WORKPLACE CONDITIONS ARE IMPORTANT FACTORS IN SPECIFYING ADEQUATE PROTECTION.

REASON FOR ISSUE ...: UPDATED SECTION 9

PREPARED BY: KATHRYN F. STRANG

TITLE: MANAGER, REGULATORY AND ENVIRONMENTAL AFFAIRS

APPROVAL DATE: AUGUST 6, 1999

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16. OTHER INFORMATION (Cont.)

PRODUCT NUMBER: D-11338

This product's safety information is provided to assist our customers in assessing compliance with health/safety/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 to be implied, regarding the accuracy of these 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 of safe use of the product. Such conditions should comply with all federal regulations concerning the product. Quaker Chemical Corporation 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 negligence on the part of Quaker Chemical Corporation.

NA = NOT APPLICABLE, ND = NOT DETERMINED, < = LESS THAN, > = GREATER THAN