#749

Material Safety Data Sheet
LUBRIZOL® 9570,00749

Prepared according to 29CFR 1910.1200.

1 Chemical Product and Company Identification

THE LUBRIZOL CORPORATION
29400 Lakeland Boulevard
Wickliffe, OH 44092-2298
Phone: (440)943-1200

Product Trade Name	LUBRIZOL® 9570,00749
CAS Number	Not applicable for mixtures.
Synonyms	None.
Generic Chemical Name	Mixture.
Product Type	Miscellaneous fuel additive.
Preparation/Revision Date	03 January 2008
Transportation Emergency Phone No.	(CHEMTREC) 1-800-424-9300. Outside the U.S. (703) 527-3887
MSDS No.	45771970-1202621-0025810-811103

2 Hazards Identification

Appearance Dark brown liquid.

Odor Aromatic hydrocarbon

Principal Hazards **WARNING.**

- **HARMFUL IF INHALED.**
- **CAUSES EYE IRRITATION.**
- **CAUSES SKIN IRRITATION.**
- **CAUSES RESPIRATORY TRACT IRRITATION.**
- **HARMFUL IF ABSORBED THROUGH SKIN.**
- **COMBUSTIBLE LIQUID.**
- **CONTAINS COMPONENTS WHICH MAY CAUSE CANCER.**
- **MAY CAUSE CHRONIC HEALTH EFFECTS.**

Target Organs: Blood, Central nervous system, Kidney, Liver

This material is considered hazardous by the OSHA Hazard Communication Standard 29CFR 1910.1200.

See Section 11 for complete health hazard information.

3 Composition/Information on Ingredients

Hazardous Ingredients

Comp	CAS No.	Percentage (by wt.)	Carcinogen

Petroleum naphtha	64742-94-5	From 50 to 59.9 percent	N/E
Naphthalene	91-20-3	5.9%	IARC Suspect Carcinogen NTP Carcinogen
Trimethylbenzene	25551-13-7	From 1 to 4.9 percent	N/E
1,2,4-Trimethylbenzene	95-63-6	1.5%	N/E

(N/E) - None established

4 First Aid Measures

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 attention.

Skin Wash with soap and water. Remove contaminated clothing. If skin irritation occurs, get medical attention. Launder contaminated clothing before reuse.

Inhalation Remove exposed person to fresh air if adverse effects are observed. If breathing is labored, administer oxygen. If breathing has stopped, apply artificial respiration. If irritation persists or if toxic symptoms are observed, get medical attention.

Oral DO NOT INDUCE VOMITING. Aspiration of material due to vomiting can cause chemical pneumonitis which can be fatal. Get immediate medical attention. If vomiting occurs naturally, the casualty should lean forward to reduce the risk of aspiration. Call a poison center or doctor if exposed or you feel unwell.

Additional Information If exposed or concerned: Get medical attention.

5 Fire Fighting Measures

Flash Point 66 °C, 150.8 °F PMCC (Typical)

Extinguishing Media CO2, dry chemical, or foam. Water can be used to cool and protect exposed material.

Firefighting Procedures Recommend wearing self-contained breathing apparatus. Water may cause splattering.

Unusual Fire & Explosion Hazards Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Container may rupture on heating.

6 Accidental Release Measures

Spill Procedures Evacuate all non-essential personnel. Personal Protective Equipment must be worn, see Personal Protection Section for PPE recommendations. Remove sources of ignition. Ventilate spill area. Prevent entry into sewers and waterways, dispose of in accordance with all federal, state and local environmental regulation. Do not dispose in landfill. Pick up free liquid for recycle and/or disposal. Residual liquid can be absorbed on inert material. Check under Transportation and Labeling (DOT/CERCLA) and Other Regulatory Information Section (SARA) for hazardous substances to determine regulatory reporting requirements for spills.

7 Handling and Storage

Pumping Temperature Ambient

Maximum Handling Temperature 50 °C, 122 °F

Handling Procedures Keep away from potential sources of ignition. Keep containers closed when not in use. Do not discharge into drains or the environment, dispose to an authorized waste collection point. Use appropriate containment to avoid environmental contamination. Avoid breathing dust, fume, gas, mist, vapors or spray. Wash thoroughly after handling. Empty containers retain material residue. Do not cut, weld, braze, solder, drill, grind or expose containers to heat, flame, spark or other sources of ignition.

Maximum Storage 45 °C, 113 °F

Temperature

Storage Procedures Do not store near potential sources of ignition. Store in well ventilated place. Equip bulk storage tanks with overfill protection such as high level alarms or secondary containment. Store drums in area with secondary containment. Storage area should be covered to prevent rain water from entering.

Loading Temperature 50 °C, 122 °F

8	Exposure Controls/Personal Protection

Exposure Limits

	Exposure Guidelines					
	OSHA		ACGIH		Other	
Comp	TWA	STEL	TWA	STEL	TWA	STEL
Petroleum naphtha	N/E	N/E	N/E	N/E	100 ppm (l)	N/E
Naphthalene	10 ppm	N/E	10 ppm (s)	15 ppm	N/E	N/E
Trimethylbenzene	N/E	N/E	25 ppm	N/E	N/E	N/E

(s) - Skin exposure
(p) - Proposed limit
(c) - Ceiling exposure
(l) - Recommended exposure limit
(u) - Supplier recommended exposure limit
(N/E) - None established

Other Exposure Limits Contains mineral oil. Under conditions which may generate mists, observe the OSHA PEL of 5 mg per cubic meter, ACGIH STEL of 10 mg per cubic meter.

Engineering Controls Mechanical exhaust required. Additional ventilation or exhaust may be required to maintain air concentrations below recommended exposure limits.

Gloves Procedures Nitrile. Polyvinyl alcohol. Note: polyvinyl alcohol gloves are water soluble and should not be used when there is potential for water contact.

Eye Protection Safety glasses. If potential for splash or mist exists, wear chemical goggles or faceshield.

Respiratory Protection Use NIOSH/MSHA approved full face respirator with an organic vapor cartridge if the recommended exposure limit is exceeded. Use self-contained breathing apparatus for entry into confined space, for other poorly ventilated areas and for large spill clean-up sites. Consult with an industrial hygienist to determine the appropriate respiratory protection for your specific use of this material. A respiratory protection program compliant with all applicable regulations must be followed whenever workplace conditions require the use of a respirator.

Clothing Recommendation Gloves, coveralls, apron, boots as necessary to minimize contact. Wear either a chemical protective suit or apron when potential for contact with material exists. Do not wear rings, watches or similar apparel that could entrap the material and cause a skin reaction. Launder contaminated clothing before reuse.

9	Physical and Chemical Properties

Flash Point 66 °C, 150.8 °F PMCC (Typical)

Upper Flammable Limit Not determined.

Lower Flammable Limit Not determined.

Autoignition Point Not determined.

Explosion Data Material does not have explosive properties.

Vapor Pressure 0.01289 psi (Calc) (0 °C)
0.04311 psi (Calc) (20 °C)
0.11044 psi (Calc) (38 °C)

pH	Not determined.
Specific Gravity	0.92 (15.6 °C)
Bulk Density	7.67 Lb/gal, 0.92 Kg/L
Water Solubility	Insoluble.
Percent Solid	Not determined.
Percent Volatile	Unknown.
Volatile Organic Compound	Not determined.
Vapor Density	Not determined.
Evaporation Rate	Not determined.
Odor	Aromatic hydrocarbon
Appearance	Dark brown liquid.
Viscosity	30.7 Centistokes (25 °C) 19.4 Centistokes (40 °C)
Odor Threshold	Unknown.
Boiling Point	Not determined.
Pour Point Temperature	> -40 °C, > -40 °F
Melting / Freezing Point	Not determined.

The above data are typical values and do not constitute a specification. Vapor pressure data are calculated unless otherwise noted.

10 Stability and Reactivity

Stability	Material is normally stable at moderately elevated temperatures and pressures.
Decomposition Temperature	Not determined.
Incompatibility	Strong oxidizing agents.
Polymerization	Will not occur.
Thermal Decomposition	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Under combustion conditions, oxides of the following elements will be formed: nitrogen.
Conditions to Avoid	Not determined.

11 Toxicological Information

-- ACUTE EXPOSURE --

Eye Irritation	Moderate to strong eye irritation. Based on data from components or similar material.
Skin Irritation	Skin irritant. Based on data from components or similar materials. Prolonged or repeated skin contact as from clothing wet with material may cause dermatitis. Symptoms may include redness, edema, drying, and cracking of the skin.
Respiratory Irritation	Nose, throat and lung irritant. Based on data from components or similar materials. Exposure to a high concentration of vapor or mist is irritating to the respiratory tract.
Dermal Toxicity	The LD50 in rabbits is > 2000 mg/Kg. Based on data from components or similar materials. Prolonged or widespread contact with this material could result in the absorption of potentially harmful amounts.
Inhalation Toxicity	High concentrations may cause headaches, dizziness, nausea, stupor, and other central nervous system effects leading to visual impairment, difficulty breathing and convulsions.
Oral Toxicity	The LD50 in rats is between 2000 mg/kg and 5000 mg/kg. Based on data from components or similar materials. Swallowing material may cause irritation of the gastrointestinal lining, nausea, vomiting, diarrhea, and abdominal pain.
Dermal Sensitization	May cause allergic skin reaction in susceptible individuals.

Inhalation Sensitization	No data available to indicate product or components may be respiratory sensitizers.

-- CHRONIC EXPOSURE --

Chronic Toxicity	Repeated overexposure to petroleum naphtha can cause nervous system damage. Repeated overexposure to naphthalene may cause destruction of red blood cells with anemia, fever, jaundice and kidney and liver damage.
Carcinogenicity	A two-year National Toxicology Program (NTP) study found an increased incidence of tumors of the nose in rats exposed to naphthalene by inhalation. In mice similarly exposed, increased incidences of alveolar/bronchiolar adenomas were observed. Naphthalene has been classified by the International Agency for Research on Cancer (IARC) as a possible human carcinogen (Group 2B) on the basis of sufficient evidence of carcinogenicity in experimental animals but inadequate evidence in exposed humans.
Mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.
Reproductive Toxicity	No data available to indicate either product or components present at greater than 0.1% that may cause reproductive toxicity.
Teratogenicity	No data available to indicate product or any components contained at greater than 0.1% may cause birth defects.

-- ADDITIONAL INFORMATION --

Other	No other health hazards known.

12 Ecological Information

-- ENVIRONMENTAL TOXICITY --

Freshwater Fish Toxicity	The acute LC50 is 1 - 10 mg/L based on component data.
Freshwater Invertebrates Toxicity	The acute EC50 is 1 - 10 mg/L based on component data.
Algal Inhibition	The acute EC50 is 1 - 10 mg/L based on component data.
Saltwater Fish Toxicity	Not determined.
Saltwater Invertebrates Toxicity	Not determined.
Bacteria Toxicity	Not determined.
Miscellaneous Toxicity	Not determined.

-- ENVIRONMENTAL FATE --

Biodegradation	At least 25% of the components in this product show moderate biodegradation based on OECD 301-type test data At least 25% of the components in this product show moderate biodegradation based on OECD 302-type test data.
Bioaccumulation	25% or greater of the components potentially bioconcentrate, based on octanol/water coefficients.
Soil Mobility	Not determined.

13 Disposal Considerations

Waste Disposal	This material, if discarded, is not a hazardous waste under RCRA Regulation 40 CFR 261.

14 Transport Information

ICAO/IATA (US)	Not regulated.
ICAO/IATA (International)	UN3082 Environmentally hazardous substance, liquid, n.o.s. (Petroleum naphtha), Class 9,

	PG III, Marine Pollutant
IMDG	UN3082 Environmentally hazardous substance, liquid, n.o.s. (Petroleum naphtha), Class 9, PG III, Marine Pollutant
IMDG EMS Fire	F-A
IMDG EMS Spill	S-F
IMDG MFAG	None
IMO Marine Vessel	DO NOT TRANSPORT - ADDITIONAL INFORMATION REQUIRED
U.S. Barge	DO NOT TRANSPORT - ADDITIONAL INFORMATION REQUIRED
USCG Compatibility	Not determined.
U.S. DOT Bulk	NA1993 Combustible liquid, n.o.s. (Petroleum naphtha, Tetramethylbenzene), PG III, Marine Pollutant (Petroleum naphtha), RQ (Naphthalene)
U.S. DOT Non-Bulk	Not regulated.
DOT NAERG	128
TDG Bulk	UN3082 Environmentally hazardous substance, liquid, n.o.s. (Petroleum naphtha), Class 9, PG III, Marine Pollutant
TDG Non-Bulk	Not regulated.
Mexico	UN3082 Environmentally hazardous substance, liquid, n.o.s. (Petroleum naphtha), Class 9, PG III, Marine Pollutant
Mexico Non-Bulk	Not regulated.
Bulk Quantity	85000 liters, 22457 gal.
Non-Bulk Quantity	207.8 liters, 55 gal.

Review classification requirements before shipping materials at elevated temperatures.

15 Regulatory Information

-- Global Chemical Inventories --

USA	All components of this material are on the US TSCA Inventory or are exempt.
Other TSCA Reg.	Section 8d (Benzene, trimethyl-).Section 4a (Naphthalene).May be subject to export notification under TSCA Section 12(b).
EU	All components are in compliance with the EC Seventh amendment Directive 92 /32/EEC.
Japan	All components are in compliance with the Chemical Substances Control Law of Japan.
Australia	All components are in compliance with chemical notification requirements in Australia.
Canada	All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.
Switzerland	All components are in compliance with the Environmentally Hazardous Substances Ordinance in Switzerland.
Korea	All components are in compliance in Korea.
Philippines	All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A. 6969).
China	All components of this product are listed on the Inventory of Existing Chemical Substances in China.

-- Other U.S. Federal Regulations --

SARA Ext. Haz. Subst.	This product does not contain greater than 1.0% of any chemical substance on the SARA Extremely Hazardous Substances list.
SARA Section 313	5.9% Naphthalene, CAS no. 91-20-3; 1.5% 1,2,4-Trimethylbenzene, CAS no. 95-63-6

SARA 311 Classifications

Acute Hazard	Yes
Chronic Hazard	Yes

Fire Hazard	Yes
Reactivity Hazard	No

CERCLA Hazardous Substances

Transit Reportable Quantities

Component	Reportable Quantity RQ	Units	Reportable Quantity RQ	Units
Naphthalene	221	gal.	837	liters

FDA Approval Not applicable.

-- State Regulations --

Cal. Prop. 65 This product contains the following chemical(s) known to the state of California to cause cancer and/or birth defects: 58 ppm Benzene, CAS no. 71-43-2 5.9% Naphthalene, CAS no. 91-20-3

-- Product Registrations --

U.S. Fuel Registration This fuel additive is registered in the United States.

U.S. Dept of Agriculture This product has not been filed with the USDA to support H2 approvals.

NSF Nonfood Compounds Registration This product has not been filed with the NSF to support H1 or H2 approvals.

Finnish Registration Number Not Registered

Swedish Registration Number Not Registered

Norwegian Registration Number Not Registered

Danish Registration Number Not Registered

Swiss Registration Number Not Registered

Italian Registration Number Not Registered

Korean Registration Number This product is registered in Korea with the Ministry of the Environment.

New Zealand Registration Number Not Registered

-- Other / International --

TDG Regulated Limit. None known.

U.S. Tariff Heading Number 3811.90.00.00

Schedule B Number 3811.90.0000

16 Other Information

US NFPA Codes

Health	Fire	Reactivity	Special
2	2	0	N/E

(N/E) - None established

HMIS Codes

Health	Fire	Reactivity
2*	2	0

Precautionary Labels **WARNING.**

- **HARMFUL IF INHALED.**
- **CAUSES EYE IRRITATION.**

- **CAUSES SKIN IRRITATION.**
- **CAUSES RESPIRATORY TRACT IRRITATION.**
- **HARMFUL IF ABSORBED THROUGH SKIN.**
- **COMBUSTIBLE LIQUID.**
- **CONTAINS COMPONENTS WHICH MAY CAUSE CANCER.**
- **MAY CAUSE CHRONIC HEALTH EFFECTS.**

Revision Indicators

Section: 2 PRINCIPAL HAZARDS	Changed: 3 January 2008
Section: 7 HANDLING PROCEDURES	Changed: 19 February 2007
Section: 8 RESPIRATORY PROTECTION	Changed: 19 February 2007
Section: 11 TERATOGENICITY	Changed: 3 January 2008
Section: 12 ALGAE TOXICITY	Changed: 13 October 2007
Section: 12 DECOMPOSITION	Changed: 13 October 2007
Section: 12 FRESHWATER FISH TOXICITY	Changed: 13 October 2007
Section: 12 FRESHWATER INVERTEBRATE TOXICITY	Changed: 13 October 2007
Section: 16 PRINCIPAL HAZARDS	Changed: 3 January 2008

The Lubrizol Corporation
New Jersey Right-To-Know Composition Information

PRODUCT NAME	INGREDIENT NAME	NEW JERSEY TRADE SECRET /CAS NUMBER	PERCENT (RANGE)
LUBRIZOL® 9570	Trimethylbenzene	25551-13-7	1 - 4.9%
	Tetramethylbenzene	527-53-7	10 - 19.9%
	Mineral oil	64742-54-7	20 - 29.9%
	Petroleum naphtha	64742-94-5	40 - 49.9%
	Polyolefin amide alkeneamine	800967-5478 P	30 - 39.9%
	Alkylbenzene	800967-5503 P	10 - 19.9%
	Naphthalene	91-20-3	1 - 4.9%
	1,2,4-Trimethylbenzene	95-63-6	1 - 4.9%