

**Federal Mogul
Part Number
51313**

MATERIAL SAFETY DATA SHEET

Page 01 of 06

Federal Mogul FP Diesel(TM) Liquid Gasket
51313

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Federal Mogul FP Diesel(TM) Liquid Gasket
Item No.: 51313
Product Type: Gasket Sealant

2. COMPOSITION, INFORMATION ON INGREDIENTS

Ingredients	CAS No.	%
n-HEPTANE	142-82-5	10-20
METHYL ETHYL KETONE*	78-93-3	40-70
TALC	14807-96-6	1-5

* This component is listed as a SARA Section 313 Toxic Chemical.

Ingredients which have exposure limits

Exposure Limits (TWA) Ingredients	ACGIH (TLV)	OSHA (PEL)	OTHER
n-HEPTANE	400 ppm TWA 1640 mg/M3	500 ppm TWA 1600 mg/M3	None
METHYL ETHYL KETONE	200 ppm TWA 590 mg/m3	200 ppm TWA 590 mg/m3	None
TALC	2 mg/m3 TWA	2 mg/m3 TWA	None
	respirable dust	respirable dust	

Exposure Limits (STEL) Ingredients	ACGIH (TLV)	OSHA (PEL)
n-HEPTANE	500 ppm 2050 mg/M3	500 ppm 2000 mg/M3
METHYL ETHYL KETONE	300 ppm 885 mg/m3	300 ppm 885 mg/m3

3. HAZARDS IDENTIFICATION

Toxicity: May cause skin, eye and respiratory tract irritation. May cause damage to internal organs if absorbed through skin. May be harmful if inhaled or swallowed.

Primary Routes of Entry: Skin and eye contact, inhalation, ingestion.

Signs and Symptoms of Exposure: EYE CONTACT: eye irritant. Direct contact may cause stinging, tearing and redness.
SKIN CONTACT: Skin irritant. Prolonged contact may cause defatting and redness.

MATERIAL SAFETY DATA SHEET

Product Name: Federal Mogul FP Diesel(TM) Liquid Gasket
 Item No.: 51313

3. HAZARDS IDENTIFICATION

(continued)

INHALATION: Inhalation of vapors may cause respiratory irritation or intoxication, with headache, dizziness, and nausea. Liquid aspirated into lungs may cause severe injury or death.
 INGESTION: May cause irritation of mouth, throat and stomach, with nausea and vomiting.

Existing Conditions

Aggravated by Exposure: Preexisting pulmonary and dermatological disorders may be aggravated by exposure. MEK may shorten the time to onset of peripheral polyneuropathy caused by methyl n-butyl ketone or n-hexane. Methyl ethyl ketone by itself has not been shown to cause peripheral polyneuropathy.

Ingredients	Literature Referenced Target Organ and Other Health Effects	Carcinogen		
		NTP	IARC	OSHA
n-HEPTANE	CNS IRR	NO	NO	NO
METHYL ETHYL KETONE	CNS IRR	NO	N/A	NO
TALC	AC4 IRR LUN SOM	NO	N/A	NO

Abbreviations

N/A Not Applicable
 CNS Central nervous system
 LUN Lung
 AC4 ACGIH-Unclassifiable as human carc.
 IRR Irritant
 SOM Some evidence of carcinogenicity

4. FIRST AID MEASURES

Ingestion: If swallowed, DO NOT induce vomiting. Give water or milk if victim is conscious and not drowsy. NEVER give anything by mouth to an unconscious person. Obtain immediate medical attention.

Inhalation: Remove to fresh air. If breathing is difficult, give oxygen. Administer artificial respiration if not breathing. Obtain medical attention.

Skin Contact: Remove contaminated clothing and flush affected area with soap and water. Remove and wash contaminated clothing. Seek medical attention if irritation develops or persists.

Eye Contact: Immediately flush eyes with clean water at least 15 minutes. Obtain immediate medical attention.

MATERIAL SAFETY DATA SHEET

Product Name: Federal Mogul FP Diesel(TM) Liquid Gasket
Item No.: 51313

5. FIRE FIGHTING MEASURES

Flash Point: 14°F Method: Tag Closed Cup
Recommended Extinguishing Agents: Carbon dioxide, foam, dry chemical, water

Special Firefighting Procedures: Extremely flammable liquid and vapor. Use NIOSH approved self-contained breathing apparatus and full protective clothing. Use water to cool exposed containers. Water stream directed into fire may cause frothing with subsequent spread of flame.

Hazardous Products formed by Fire or Thermal Decomp: Irritating and/or toxic gases or fumes

Unusual Fire or Explosion Hazards: Flammable liquid and vapor. Closed containers may rupture or explode when exposed to extreme heat (due to pressure build-up). Vapors are heavier than air, and may travel along the ground to be reignited at locations distant from the source; flashback of flame may occur. "Empty" containers may retain dangerous product residues or explosive vapors.

Explosive Limits:
(% by volume in air) Lower 1.0%
(% by volume in air) Upper 11.0%

6. ACCIDENTAL RELEASE MEASURES

Steps to be taken in case of spill or leak: Remove sources of ignition. Wear appropriate protective equipment during cleanup. Absorb with inert material, such as clay. Sweep or shovel into loosely-covered waste container and remove to appropriate waste area. Dispose of in accordance with federal, state, and local regulations.

7. HANDLING AND STORAGE

Safe Storage: Store full and empty containers away from heat, sparks, open flames, and sources of ignition. Keep containers closed when not in use. KEEP OUT OF REACH OF CHILDREN. Use proper grounding procedures.

(Contact Loctite Customer Handling: Service 1-800-243-4874 for shelf life information) Avoid contact with skin and eyes. Avoid inhaling vapors. DO NOT pressurize, cut, weld, braze, solder, drill, or grind on or near empty containers. Observe all labeled precautions until

MATERIAL SAFETY DATA SHEET

Page 04 of 06

Product Name: Federal Mogul FP Diesel(TM) Liquid Gasket
Item No.: 51313

7. HANDLING AND STORAGE

(continued)

containers are cleaned and/or reconditioned.
DO NOT take internally. FOR INDUSTRIAL USE ONLY.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Eyes: Chemical splash goggles.
Skin: Chemical impervious gloves.
Ventilation: Local exhaust as needed to control vapors or dust levels to below lowest component TLV.
Respiratory: If TLV/PEL is exceeded, if use is performed in a poorly-ventilated space, or if inhalation effects occur, use NIOSH approved vapor cartridge respirator in accordance with applicable health and safety regulations and manufacturer's recommendations.

See Section 2 for Exposure Limits.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Red liquid
Odor: Solvent
Boiling Point: 200-211°F
pH: Does not apply
Solubility in Water: Insoluble
Specific Gravity: 0.83
Volatile Organic Compound (EPA Method 24)
Material VOC: 1.02 lbs/gal
Coating VOC: 2.57 lbs/gal
Vapor Pressure: Not available
Vapor Density: Is heavier than air
Evaporation Rate (Ether = 1) Is slower than n-Butyl Acetate

10. STABILITY AND REACTIVITY

Stability: This product is stable under normal conditions.
Hazardous Polymerization: Will not occur under normal conditions.
Incompatibility: Strong acids and oxidizing agents
Conditions to Avoid: Prolonged exposure to heat.
Hazardous Decomposition Products (non-thermal): None known.

11. TOXICOLOGICAL INFORMATION

See Section 3.

MATERIAL SAFETY DATA SHEET

Page 05 of 06

Product Name: Federal Mogul FP Diesel(TM) Liquid Gasket
Item No.: 51313

12. ECOLOGICAL INFORMATION

No data available

13. DISPOSAL CONSIDERATIONS

Recommended methods of disposal: Review all current federal, state, and local regulations regarding health and disposal for appropriate disposal procedures.

EPA Hazardous Waste Number D001

14. TRANSPORTATION INFORMATION

DOT (49 CFR 172)

Domestic Ground Transport

Proper Shipping Name: Consumer Commodity (Not more than one liter)
Adhesives (More than one liter)

Hazard Class or Division: ORM-D (Not more than one liter)
Class 3, Packing Group II (More than one liter)

Identification Number: None (Not more than one liter)
UN 1133 (More than one liter)

Marine Pollutant: None

IATA

Proper Shipping Name: Consumer Commodity (Not more than 500 ml)
Adhesives (More than 500 ml)

Class or Division: Class 9 (Not more than 500 ml)
Class 3, Packing Group II (More than 500 ml)

UN or ID Number: ID 8000 (Not more than 500 ml)
UN 1133 (More than 500 ml)

15. REGULATORY INFORMATION

CA Proposition 65: WARNING: This product contains chemicals known to the State of California to cause cancer.
Butadiene <0.2 ppm
Acrylonitrile < 10 ppm

16. OTHER INFORMATION

Estimated NFPA(R) Code:
Health Hazard: 2
Fire Hazard: 3
Reactivity Hazard: 0
Specific Hazard: Does not apply

Estimated HMIS(R) Code:
Health Hazard: 2

MATERIAL SAFETY DATA SHEET

Product Name: Federal Mogul FP Diesel(TM) Liquid Gasket
Item No.: 51313

16. OTHER INFORMATION

(continued)

Flammability Hazard: 3
Reactivity Hazards: 0
Personal Protection: See Section 8.

NFPA is a registered trademark of the National Fire Protection Assn.
HMIS is a registered trademark of the National Paint and Coatings Assn.

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