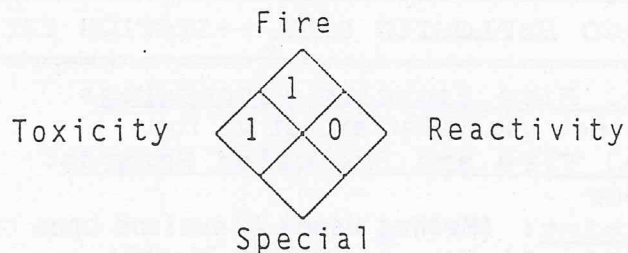


W I T C O M A T E R I A L S A F E T Y D A T A S H E E T

KENDALL SUPER-D 3 MOTOR OIL, ALL SAE GRADES

PAGE 1

NFPA HAZARD RATING
4 - Extreme
3 - High
2 - Moderate
1 - Slight
0 - Insignificant



DIVISION AND LOCATION---SECTION I

Division: KENDALL REFINING COMPANY
Location: BRADFORD, PENNSYLVANIA
77 N. KENDALL AVE., BRADFORD, PA, 16701
Emergency Telephone Number: (814) 368-6111
Transportation Emergency: CHEMTREC 1-(800) 424-9300 (U.S. and Canada)

CHEMICAL AND PHYSICAL PROPERTIES---SECTION II

Chemical Name:

petroleum hydrocarbon plus additives
Formula: not applicable
Hazardous Decomposition Products:
carbon monoxide and carbon dioxide from burning.
oxides of phosphorous from burning
oxides of sulfur

Incompatibility (Keep away from):

strong oxidizers such as hydrogen peroxide, bromine, and chromic acid.

Toxic and Hazardous Ingredients:

none.

Form: liquid Odor: motor oil
Appearance: liquid Color: brown
Specific Gravity (water=1): .87 to .9
Boiling Point: greater than 330°C (625°F)
Melting Point: less than -15°C (5°F)
Solubility in Water (by weight %): 0 at 20°C
Volatile (by weight %): 0
Evaporation Rate: 0
Vapor Pressure (mm Hg at 20°C): 0
Vapor Density (air=1): not volatile
pH (as is): not applicable
Stability: Product is stable under normal conditions
Viscosity SUS at 100°F: Greater than or = to 100

(Continued on next page)

FIRE AND EXPLOSION DATA---SECTION III

Special Fire Fighting Procedures:

Do not use water except as fog.

Unusual Fire and Explosion Hazards:

none

Flashpoint: (Method Used) Cleveland open cup greater than 205°C (400°F)

Flammable limits %: not applicable

Extinguishing agents:

Drychemical or Waterfog or CO₂ or Foam

Closed containers exposed to fire may be cooled with water.

HEALTH HAZARD DATA---SECTION IV

Permissible concentrations (air):

If used in applications where a mist may be generated, observe a TWA/PEL of 5 mg/m³ for mineral oil mist (OSHA and ACGIH).

Chronic effects of overexposure:

Prolonged or repeated skin contact may cause dermatitis (skin irritation)

Acute toxicological properties:

no data available

Emergency First Aid Procedures:

Eyes: Immediately flush with large quantities of water for at least 15 minutes and call a physician.

Skin Contact: Remove excess with cloth or paper. Wash thoroughly with soap and water.

Inhalation: Remove victim to fresh air. Call a physician.

If Swallowed: Contact a physician immediately.

SPECIAL PROTECTION INFORMATION---SECTION V

Ventilation Type Required (Local, mechanical, special):

Local if necessary to maintain allowable PEL(permissible exposure limit) or TLV(threshold limit value)

Respiratory Protection (Specify type):

Use NIOSH/MSHA certified respirator with dual organic vapor/mist and particulates cartridge if vapor concentration exceeds permissible exposure limit.

Protective Gloves:

neoprene type

Eye Protection:

chemical safety goggles

Other Protective Equipment:

none

(Continued on next page)

=====
 HANDLING OF SPILLS OR LEAKS---SECTION VI
 =====

Procedures for Clean-Up:

Transfer bulk of mixture into another container. Absorb residue with an inert material such as earth, sand, or vermiculite. Sweep up and dispose as solid waste in accordance with local, state, and federal regulations.

Waste Disposal:

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

=====
 SPECIAL PRECAUTIONS---SECTION VII
 =====

Precautions to be taken in handling and storage:

Do not handle or store at temperatures over
Maximum Storage Temperature: 38°C (100°F)

=====
 TRANSPORTATION DATA---SECTION VIII
 =====

H.C.T.: Not Regulated

Reportable Quantity: not applicable

Weight Classification: Petroleum Lubricating Oil

Special Transportation Notes:

none

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 ENVIRONMENTAL/SAFETY REGULATIONS---SECTION IX
 =====

Section 313 (Title III Superfund Amendment and Reauthorization Act):

This product contains the following toxic chemical category(ies) subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372 (percent by weight is also provided):

1.4% zinc compound or 0.14% zinc in compound form

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 COMMENTS
 =====

STATE REGULATORY INFORMATION:

Pennsylvania Worker And Community Right To Know Act: This product contains the following ingredient(s).

Carbon oils CAS. NO. 8020-83-5

Other additive mixtures in this product have been declared a trade secret by the respective manufacturers.

(Continued on next page)

W I T C O M A T E R I A L S A F E T Y D A T A S H E E T

ENDALL SUPER-D 3 MOTOR OIL, ALL SAE GRADES

PAGE 4

(COMMENTS continued)

Prepared by: Robert Kellam _____
Title: Group Supervisor, Lubricants Testing, Maintenance, and Safety
Original Date: 05/20/81 Sent to: _____
Revision Date: 04-05-90 _____
Supersedes : 08-11-89 _____
Date Sent : _____

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