

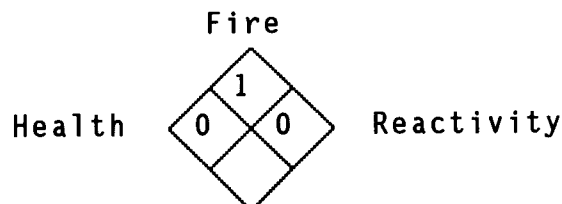
A M E R I C A N   R E F I N I N G   G R O U P   I N C .  
M A T E R I A L   S A F E T Y   D A T A   S H E E T

R&O ISO VG 460 HYDRAULIC FLUID

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Product Code: H45 7370

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



DIVISION AND LOCATION--SECTION I

Division: LUBRICANTS AND SPECIALTY PRODUCTS DIVISION

Location: BRADFORD, PENNSYLVANIA

77 N. KENDALL AVE, BRADFORD, PA, 16701

Emergency Telephone Number: (814) 368-1297

Transportation Emergency: CHEMTREC 1-(800) 424-9300 (U.S. and Canada)

CHEMICAL AND PHYSICAL PROPERTIES---SECTION II

Chemical Name:

petroleum hydrocarbon

Formula: not applicable

Hazardous Decomposition Products:

carbon monoxide and carbon dioxide from burning.

Incompatibility (Keep away from):

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

Toxic and Hazardous Ingredients:

none

Form: liquid

Odor: bland

Appearance: liquid

Color: light brown

Specific Gravity (water=1): .89 to .9

Boiling Point: greater than 330°C (625°F)

Melting Point: less than -7°C (20°F)

Solubility in Water (by weight %): 0 at 20°C

Evaporation Rate: not determined

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

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FIRE AND EXPLOSION DATA--SECTION III

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Special Fire Fighting Procedures:

Do not use water except as fog.

Unusual Fire and Explosion Hazards:

Do not cut, weld, braze, solder, drill, grind or expose containers, drums, tanks, etc. of product to heat, flame, sparks, static electricity or other sources of ignition; they may ignite explosively.

Flashpoint: (Method Used) Cleveland open cup greater than 200°C (390°F)

Flammable limits % : not applicable

Extinguishing agents:

Drychemical or Waterfog or CO<sub>2</sub> or Foam

Closed containers exposed to fire may be cooled with water.

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HEALTH HAZARD DATA--SECTION IV

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Permissible concentrations (air):

see COMMENTS section

Chronic effects of overexposure:

no data available

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.

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SPECIAL PROTECTION INFORMATION---SECTION V

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Ventilation Type Required (Local,mechanical, special):

see COMMENTS section

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

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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: 60°C (140°F)

TRANSPORTATION DATA--SECTION VIII

D.O.T.: Not Regulated

Reportable Quantity: not applicable

Freight Classification: Petroleum Lubricating Oil

Special Transportation Notes:

none

ENVIRONMENTAL/SAFETY REGULATIONS---SECTION IX

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

This product does not contain any chemical in sufficient quantity to be 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.

COMMENTS

If used in applications where a mist may be generated, observe a TWA/PEL of 5 mg/m<sup>3</sup> for mineral oil mist (OSHA and ACGIH).

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

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(COMMENTS continued)

Prepared by: ROBERT M. KELLAM \_\_\_\_\_

Title: PRODUCT SAFETY & HEALTH COORDINATOR

Original Date: 08/18/97      Sent to: \_\_\_\_\_

Revision Date: 03/09/05      \_\_\_\_\_

Supersedes : 01/11/02      \_\_\_\_\_

Date Sent : \_\_\_\_\_

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