WITCO MATERIAL SAFETY DATA SHEET PAGE 1 KENDALL KENOIL R&O AW-32,46,68 and 100

HAZARD RATING

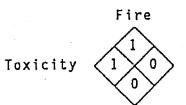
N 4 - Extreme

F 3 - High

2 - Moderate

Α 1 - Slight

0 - Insignificant



Reactivity

Special

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: CHEM TREC 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.

oxides of phosphorous 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: bland

Appearance: liquid

Color: amber

Specific Gravity (water=1): .87 to .88

Boiling Point: greater than 330°C (625°F)
Melting Point: less than -18°C (0°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

<u>Vapor Density (air=1)</u>: not volatile

pH (as is): not applicable

Stability: Product is stable under normal conditions

Viscosity SUS at 100°F: Less than 100

FIRE AND EXPLOSION DATA---SECTION III

Special Fire Fighting Procedures:

Do not use water except as fog

Unusual Fire and Explosion Hazards:

none

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(Section III continued)

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

Flammable limits %: not applicable

Extinguishing agents: "

Drychemical or Waterfog or CO2 or Foam Exposed material 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/m^3 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:

Eves: 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.

<u>Inhalation</u>: Remove victim to fresh air. Call a physician.

If Swallowed: Call a physician immediately. DO NOT induce vomiting. (Vomiting

may cause aspiration into lungs resulting in chemical

pneumonia.)

SPECIAL PROTECTION INFORMATION --- SECTION V

Ventilation Type Required (Local, mechanical, special):

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

Respiratory Protection (Specify type):

Use NIOSH/OSHA approved respirator with organic vapor cartridge if vapor concentration exceeds permissible exposure limit

<u>Protective Gloves</u>: neoprene type

Eye Protection: chemical safety goggles.

Other Protective Equipment:

none

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.

<u>k</u> te Disposal:

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

(Continued on next page)

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SPECIAL PRECAUTIONSSECTION 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 DATASECTION VIII		
<pre>D.O.T.: Not Regulated Reportable Quantity: not applicable Freight Classification: Petroleum Lubricating Oil Special Transportation Notes: none</pre>		
COMMENTSSECTION IX		
Signature: Luther Dromgold // Lution // Title: MANAGER, NEW PRODUCTS Original Date: 04/01/68 Sent to: Revision Date: 06/20/86 Supersedes: 11/18/83	Date:	

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