



Material Safety Data Sheet

Product Name:
Kensol K-1
Revision Date:
02-Sep-2008
Revision Number:
1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: 4112
Product Name: Kensol K-1
Chemical characterization: Liquid
Supplier: American Refining Group, Inc.
Lubricants and Specialty Products Division
77 North Kendall Avenue
Bradford, PA 16701
www.amref.com
Emergency Telephone Number: CHEMTREC: 1-800-424-9300
ARG Watchblock: 814-368-1297

2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %	TSCA	DSL
Kerosene	8008-20-6	100	Present	Present

ACGIH - TLV ACGIH TWA - 200 mg/m³ kerosene

3. HAZARDS IDENTIFICATION

Emergency Overview

- Combustible material
- Harmful if swallowed.
- This product may be irritating to skin, eyes, nose, throat, and lungs. Use all necessary personal protection when handling this material.

Eye contact

- Contact with eyes may cause irritation

Skin contact

- Can cause skin irritation.

Inhalation

- Avoid breathing vapors or mists
- Inhalation may cause mild irritation of respiratory tract.

3. HAZARDS IDENTIFICATION

Ingestion	<ul style="list-style-type: none"> • May be toxic if swallowed • Ingestion may cause nausea, vomiting, and diarrhea.
General advice	<ul style="list-style-type: none"> • As with any chemical, use caution when handling

4. FIRST AID MEASURES

General Advice	<ul style="list-style-type: none"> • Immediate medical attention is not required • If exposure symptoms persist, seek medical attention. • Show this safety data sheet to the doctor in attendance
Skin Contact	<ul style="list-style-type: none"> • Wash off immediately with soap and plenty of water
Eye Contact	<ul style="list-style-type: none"> • Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes • If eye irritation persists, seek medical attention
Inhalation	<ul style="list-style-type: none"> • Move to fresh air. • If exposure symptoms persist, seek medical attention.
Ingestion	<ul style="list-style-type: none"> • Do not swallow. Rinse mouth with water and afterwards drink plenty of water. • Never give anything by mouth to an unconscious person • Consult a physician if necessary
Notes to Physician	<ul style="list-style-type: none"> • Treat symptomatically
Protection of First-aiders	<ul style="list-style-type: none"> • Use necessary personal protective equipment
Aggravated Medical Conditions	<ul style="list-style-type: none"> • Users with skin conditions (eczema, psoriasis, etc..) respiratory conditions (asthma, bronchitis, emphysema, etc..) or with chemical sensitivities should take protective precautions.

5. FIRE-FIGHTING MEASURES

Flash Point	<ul style="list-style-type: none"> • 38°C / 100°F
Suitable Extinguishing Media	<ul style="list-style-type: none"> • carbon dioxide (CO₂) • water fog • alcohol-resistant foam • dry chemical
Extinguishing media which must not be used for safety reasons	<ul style="list-style-type: none"> • Water, except as fog
Special exposure hazards in a fire	<ul style="list-style-type: none"> • Keep product and empty container away from heat and sources of ignition
Special Protective Equipment	<ul style="list-style-type: none"> • As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear
Specific Methods Firefighting	<ul style="list-style-type: none"> • In the event of fire, cool tanks with water spray • Use spark-proof tools and explosion-proof equipment
NFPA	<ul style="list-style-type: none"> • Health=1, Fire=2, Reactivity=0, Special=0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	<ul style="list-style-type: none"> • Evacuate personnel to safe areas • Keep people away from and upwind of spill/leak • Wear personal protective equipment • Remove all sources of ignition • Ensure adequate ventilation • Floors may be slippery
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6. ACCIDENTAL RELEASE MEASURES

Environmental Precautions	<ul style="list-style-type: none"> • Prevent further leakage or spillage if safe to do so • Prevent product from entering drains
Methods for Cleaning Up	<ul style="list-style-type: none"> • Dam up • Soak up with inert absorbent material • Pick up and transfer to properly labelled container for disposal. • Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container

7. HANDLING AND STORAGE

Handling

Technical Measures Handling	<ul style="list-style-type: none"> • Use only in areas provided with adequate ventilation. • Keep away from open flames, hot surfaces and sources of ignition
Safe Handling Advice	<ul style="list-style-type: none"> • Wear personal protective equipment • Do not breathe vapours or spray mist. Ensure that ventilation is adequate before using this product.

Storage

Technical Measures Storage	<ul style="list-style-type: none"> • Keep containers tightly closed; discard any material that may be contaminated or, which may have changed composition. • Keep away from heat • Protect from light • Keep in properly labelled containers.
Incompatible Products	<ul style="list-style-type: none"> • Strong oxidizing agents

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures	<ul style="list-style-type: none"> • Ensure adequate ventilation, especially in confined areas • As a rule, at least 10 air changes per hour are recommended at the workplace
Personal Protective Equipment	
Hand Protection	<ul style="list-style-type: none"> • Impervious gloves
Eye Protection	<ul style="list-style-type: none"> • Wear tightly fitting safety goggles or safety glasses with side-shields
Respiratory Protection	<ul style="list-style-type: none"> • When workers are facing concentrations above the exposure limit they must use appropriate certified respirators
Skin And Body Protection	<ul style="list-style-type: none"> • Long sleeved clothing
General Hygiene Considerations	<ul style="list-style-type: none"> • Handle in accordance with good industrial hygiene and safety practice • Keep away from food, drink and animal feeding stuffs • When using, do not eat, drink or smoke
Environmental exposure controls	<ul style="list-style-type: none"> • No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

General Information

Physical State	Liquid
Color	Off-white
Odor	Hydrocarbon solvent

Important Health Safety and Environmental Information

Boiling Point/Range	154°C / 310°F
Pour Point	<-30°C / <-22°F
Density	6.5 lbs/gallon
Vapor Pressure	1.7 mm Hg @ 20°C
Water Solubility	Insoluble
Specific Gravity	0.78
VOC Content	No data available

10. STABILITY AND REACTIVITY

Stability	• Stable under normal conditions
Conditions to Avoid	• Heat, flames and sparks
Materials to avoid	• Strong oxidizing agents
Hazardous Decomposition Products	• None under normal use
Hazardous Polymerization	• When burned :carbon dioxide, carbon monoxide, hydrocarbons
	• Polymerization does not occur

11. TOXICOLOGICAL INFORMATION**Acute Toxicity**

LD50 Dermal Rat	>2000 mg/kg
LD50 Oral Rat	>2000 mg/kg
LC50 Inhalation	>5000 mg/L
Skin irritation	May cause skin irritation.
Eye irritation	May cause eye irritation.
Inhalation Toxicity	Move to fresh air in case of accidental inhalation
Ingestion Toxicity	Harmful if swallowed Maybe toxic if swallowed Nausea, Vomiting, Diarrhea (detersive effects)
Sensitization	May cause sensitization of susceptible persons
Chronic Toxicity	Prolonged exposure may cause chronic effects
Carcinogenic effects	Studies conducted by the American Petroleum Institute have shown that certain representative middle distillate products have been found to be weakly to moderately tumorigenic or carcinogenic in laboratory animals when applied to the skin repeatedly without washing between applications in long term bioassays. The Kensol distillates, which are Pennsylvania grade middle distillate products, were not included in the American Petroleum Institute studies. The Kensol distillates are not listed as carcinogens by the IARC and NTP, nor are they included in the OSHA list of carcinogens. In accordance with OSHA Instructions CPL2-2.38A dated May 16, 1986, this product does not require a cancer hazard warning label.
Mutagenic Effects	Does not exhibit mutagenic effects, based on testing of similar materials.
Reproductive Effects	Does not exhibit reproductive toxicity, based on testing of similar materials.
Target Organ Effects	No information available

12. ECOLOGICAL INFORMATION

Component Information

Product Information

Aquatic toxicity • No information available

Other information

Ozone Depletion Potential • No information available

Global warming potential (GWP) • No information available

Additional Ecological Information • This product is not readily biodegradable in water but are inherently biodegradable based on test results of similar products.

Mobility • No information available

Bioaccumulative Potential • Low Log Kow values for the hydrocarbon components, indicate a potential for bioaccumulation.

Ecotoxicity effects • No information available

13. DISPOSAL CONSIDERATIONS

Waste From Residues/Unused Products • Dispose of in accordance with local regulations

Contaminated Packaging • Dispose of in accordance with local regulations

14. TRANSPORT INFORMATION

DOT

Description UN 1223, KEROSENE, COMBUSTIBLE LIQUID, PG III, ERG 128

Other information DOMESTIC: Unregulated by DOT when shipped in containers of less than 118.9 gallons.

15. REGULATORY INFORMATION

U.S. Inventories

Component	TSCA	CAS-No	Weight %
Kerosene	Present	8008-20-6	100

International Inventories

Component	DSL	EINECS	ENCS	KECL	CHINA	AICS	PICCS
Kerosene	Present	232-366-4		X KE-21778	X	X	X

16. OTHER INFORMATION

Literary Reference None

Prepared By

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