Page **1** of **7**



Safety Data Sheet

Prepared according to GHS

1. Identification

Product Name Kensol® 50H

Product Code 4118

Recommended Use Ink Oil, Fuel Additives and Drilling Fluids

American Refining Group, Inc. **Company** 77 North Kendall Avenue

Bradford, PA 16701 www.amref.com msds@amref.com

Chemtrec 1-800-424-9300 (24 HRS) **Emergency Telephone**

Number(s) ARG: 814-368-1297 (24 HRS)

2. Hazards Identification

GHS Classification Aspiration Hazard Category 1

Signal Word DANGER!

Hazard Statements May be fatal if swallowed and enters airways.

GHS Pictogram

Skin



Precautionary Statements If swallowed: immediately call a poison center/ doctor to specify the

appropriate source of emergency medical advice.

Do NOT induce vomiting.

3. Composition / Information on Ingredients

CAS No.	Component	Common Name	Percent
64742-46-7	Hydrotreated distillate, middle	Distillate	100%

4. First Aid Measures

Check for and remove any contact lenses. Immediately flush eyes **Eyes**

with plenty of water for at least 15 minutes, occasionally lifting the

upper and lower eyelids. Get medical attention immediately.

In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse.

Kensol® 50HRevision Date: 11/10/2015American Refining Group, Inc.4118Revision #:3Page 2 of 7

4. First Aid Measures

Get medical attention immediately.

Inhalation Product is not expected to present any inhalation hazard at ambient

conditions. If aerosolization and/or misting occurs and a person is over-exposed, move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention

immediately.

Ingestion DO NOT INDUCE VOMITING. If conscious, rinse out mouth with

water. Seek medical attention immediately.

Symptoms(**Acute and delayed**) May be fatal if swallowed and enters airways.

Note to Physicians No specific treatment. Treat symptomatically. Contact poison

treatment specialist immediately if large quantities have been

ingested or inhaled.

5. Fire Fighting Measures

Suitable Extinguishing Media

Use dry chemical, CO₂, water spray (FOG) or foam

Unsuitable Extinguishing Media

Avoid solid water stream as it may scatter and spread fire.

Specific Hazards Arising from Chemical

Elevated temperatures can lead to the formation of irritating fumes and vapors. Decomposing products may include the following materials: Carbon dioxide and Carbon monoxide.

Protective Equipment and Precautions for Firefighters

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental Release Measures

Personal Precautions

Put on appropriate personal protective equipment.

Environmental Precautions

Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.

Methods for Containment

Stop leak if without risk.

Methods for Cleanup

Cover liquid spill with sand, earth or other noncombustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled container

7. Handling and Storage

Handling Procedures

Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Use non-sparking tools.

Shipping and Storing Procedures

Keep container tightly closed in a dry and well-ventilated place. Keep away from heat. Protect from light. Keep

7. Handling and Storage

in properly labeled containers. Keep out of the reach of children.

Incompatibilities:

Oxidizing Agents

8. Exposure Controls / Personal Protection

Component Exposure Limits

Oil Mist (mineral)

N/A ppm 5 mg/m^3 N/A ppm 10 mg/m^3 **ACGIH TLV:** TWA: TWA: STEL: STEL: 5 mg/m^3 $N/A mg/m^3$ **OSHA PEL:** TWA: N/A ppm TWA STEL: N/A ppm STEL: 5 mg/m^3 10 mg/m^3 **NIOSH REL:** TWA: N/A ppm **TWA** STEL: N/A ppm STEL:

N/A signifies not available

Engineering Controls Material should be handled in enclosed vessels and equipment. Use

only in adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Eye/Face Protection Chemical goggles or face shield.

Skin Protection Chemical resistant, impervious gloves complying with an approved

standard should be worn at all times. Coveralls, apron, and boots as

necessary to minimize contact.

Respiratory Protection Respirator may only be needed if product is aerosolized and/or misted.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicated this is necessary. Respirator selection must be based on known or anticipated exposure

levels.

General Hygiene Wash hands, forearms and face thoroughly after handling chemical

products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove

potentially contaminated clothing.

9. Physical and Chemical Properties

Note: Physical and chemical properties are provided for safety, health and environmental considerations only and may not fully represent product specifications. Please see the Product Specification Sheet for further information.

	1 0	1 0	, 0
Appearance	Clear and bright	Flammability	Not Available
Physical State	Liquid	Upper/Lower	Not Available
		Flammability Limits	
Odor	Petroleum Oil	Vapor Pressure (20°C	0.00
		mm Hg)	
Odor Threshold	Not Available	Vapor Density	Not Available
pH	Not Available	Relative Density (lbs/gal)	6.8
Melting/Freezing Point	Not Available	Water Soluble	No
(°F)			
Initial Boiling Point (°F)	445-465	Partition Coefficient: n-	3.3 to > 6
		octanol/water	
Boiling Range (°F)	445-525	Auto-ignition	Not Available
		Temperature (°F)	
Flash Point (°F)	230	Decomposition	Not Available

Kensol® 50H Revision Date: 11/10/2015 American Refining Group, Inc. 4118 Revision #:3 Page 4 of 7

9. Physical and Chemical Properties			
Cleveland Open Cup ASTM D-92		Temperature (°F)	
Evaporation Rate	Not Available	Viscosity (40°C mm²/s)	2.4
_			
Volatile Organic	814.6	Aromatic Content	10
Compounds (g/L)		(Typical Vol %)	

10. Chemical Stability & Reactivity Information

ReactivityPolymerization will not occurChemical StabilityStable under normal conditionsHazardous ReactionsNone, under normal processing.Conditions to AvoidHigh temperatures, flames, sparksIncompatibilityStrong acids and oxidizing materials

Hazardous Decomposition Smoke, carbon monoxide, carbon dioxide, aldehydes and other products

Products of incomplete combustion.

11. Toxicological Information

Acute Exposure

Respiratory Irritation An inhalation hazard may only arise if product is used in aerosol conditions or

if heated up. If material is misted or if vapors are generated from heating, exposure may cause irritation of mucous membranes and upper respiratory

tract. Based on data from similar materials.

Eye Irritation May cause minimal to slight eye irritation if product is splashed in eyes and

unwashed

Skin Irritation May cause very slight transient reversible skin irritation if unwashed. May

cause slight redness and swelling.

Sensitization Not expected to cause skin or respiratory sensitization.

Aspiration Hazards If swallowed can be aspirated into lungs and cause chemical pneumonia,

varying degrees of pulmonary injury or death. If swallowed, do NOT induce

vomiting.

Chronic Exposure

Target Organ EffectsNo data available to indicate product or components at greater than 1% are

chronic health hazards.

Carcinogenicity This product contains mineral oils which are considered to be severely refined

and not considered to be carcinogenic under IARC. All of the oils in this product have been demonstrated to contain less than 3% extractables by the IP

346 test.

Mutagenicity No data available to indicate product or any components present at greater than

.1% are mutagenic or genotoxic.

Reproductive Toxicity No data available to indicate either product or components present at greater

than .1% that may cause reproductive toxicity.

Teratogenicity No data available to indicate product or any components contained at greater

than .1% may cause birth defects.

Analysis – LD50 / LC50

Kensol® 50H 4118 Revision Date: 11/10/2015
Revision #:3

American Refining Group, Inc.

Page **5** of **7**

Inhalation LC50 Rat Oral LD50 Rat Dermal LD50 Rabbit 4.6-7.64 mg/L (4HR) Aerosolized >5000 mg/kg

>2000 mg/kg

12. Ecological Information

Component Analysis- Ecotoxicity - Aquatic Life

Duration/Test/Species Concentration/Conditions

96 Hr LL50; WAF 3.2-65 mg/L

Aquatic Vertebrates

7 Day EL50; WAF 2.0-210 mg/L Daphnia magna

21 Day EL-50 >0.5 mg/L

Daphnia magna

Persistence & DegradabilityReadily degradedBioaccumulation PotentialNot AvailableSoil MobilityNot AvailableOther Adverse EffectsNot Available

13. Disposal Considerations

Disposal Instructions

The generation of waste should be avoided or minimized wherever possible. Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial, and Local regulations.

14. Transportation Information

Emergency R	esponse Guide l	No. 171	North An Guide Bo	nerican Emerger ook	ncy Response
	UN Number	Shipping Name (technical name)	Hazard Class	Packing Group	Placard/ Label
U.S. DOT		Not Regulated		•	
IMDG	3082	Environmentally Hazardous Substance, Liquid, N.O.S. (Petroleum Distillate)	9	III	
IATA	3082	Environmentally Hazardous Substance, Liquid, N.O.S. (Petroleum Distillate)	9	III	
		*Not regulated if net quantity is <1.3 gallons for liquids			W.

15. Regulatory Information

15. Regulatory Information

Substances (Sections 302 & 304) hazardous substances" listed pursuant to Title III of the Superfund

Amendments and Reauthorization Act of 1986 (SARA) Section 302 or

Section 304 as identified in 40 CFR Part 355, Appendix A and B. This product does not contain greater than 1.0% of the substances

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.

SARA Section 311 & 312 Classifications Acute Hazard Yes

Chronic Hazard No **Fire Hazard** No

Reactivity Hazard No

CERCLA This product does not contain any "hazardous substances" listed under the

Comprehensive Environmental Response, Compensation and Liability Act of

1980 (CERCLA) in 40 CFR Part 302, Table 302.4.

California Prop 65 This product is not routinely tested to determine chemical(s) known to the state

of California to cause cancer and/or birth defects based on maximum impurity

levels of components.

California Air Resource

Board (CARB)

SARA Section 313

This product is considered a Low Vapor Pressure – Volatile Organic Compound (LVP-VOC) according to the CARB. This product meets one of

the following requirements in order to be considered a LVP-VOC:

(A) has a vapor pressure less than 0.1 mm Hg at 20° C, as determined by ARB Method 310; or

(B) is a chemical "compound" with more than 12 carbon atoms, or a chemical "mixture" comprised solely of "compounds" with more than 12 carbon atoms, as verified by formulation data, and the vapor pressure and boiling point are unknown; or

(C) is a chemical "compound" with a boiling point greater than 216°C, as determined by ARB Method 310; or

(D) is the weight percent of a chemical "mixture" that boils above 216°C, as determined by ARB Method 310.

California Air Resource Board (CARB) Bin Number 20

Global Chemical Inventories

Inventory	
US TSCA	Present
EU	Present
Japan	Not available
Australia	Present
New Zealand	Present
Canada	Present
Switzerland	Not available

Kensol® 50H

Revision Date: 11/10/2015

American Refining Group, Inc.
Page 7 of 7

4118 Revision #:3

Korea	Present
Philippines	Not Available
China	Present
Taiwan NECI	Present

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US NFPA Ratings

Health	Fire	Reactivity
0	1	0

HMIS Ratings

Health	Fire	Physical Hazards
0	1	0

Revision Date Revision Reason 10 November 2015

Section 14

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of SDS