

Safety Data Sheet

US Hazard Communication Standard 2024 (29 CFR 1910.1200)

Initial Preparation Date: 01.19.2021

Page 1 of 11

Revision date: 02.17.2026**Kensol 48H****SECTION 1: Identification****Product Identifier****Product Name:** Kensol 48H**Product code:** 4115**Recommended Use of the Chemical and Restrictions on Use:****Recommended Uses:** Aluminum Rolling Oil/Ink Oil**Restrictions on Use:** Not determined or not applicable.**Manufacturer or Supplier Details****Manufacturer:****United States**

American Refining Group
77 North Kendall Avenue
Bradford, Pennsylvania 16701
814-368-1297
msds@amref.com
amref.com

Emergency Telephone Number:**United States**

CHEMTREC
1-800-424-9300 (24 Hours)

United States

American Refining Group
814-368-1297 (24 Hours)

SECTION 2: Hazard Identification**Classification of the chemical in accordance with paragraph (d) of § 1910.1200:**

Flammable liquids, category 4

Skin irritation, category 2

Specific target organ toxicity - single exposure, category 3, narcotic effects

Aspiration hazard, category 1

Label elements**Hazard Symbol(s):****Signal Word:** Danger**Hazard statement(s):**

H227 Combustible liquid

H315 Causes skin irritation

H336 May cause drowsiness or dizziness

H304 May be fatal if swallowed and enters airways

Precautionary Statement(s):

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Safety Data Sheet

US Hazard Communication Standard 2024 (29 CFR 1910.1200)

Initial Preparation Date: 01.19.2021

Page 2 of 11

Revision date: 02.17.2026

Kensol 48H

P280 Wear protective gloves, protective clothing, eye protection and face protection.
P264 Wash skin thoroughly after handling.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P370+P378 In case of fire: Use agents recommended in Section 5 for extinction.
P302+P352 If on skin: Wash with plenty of water and soap.
P321 Specific treatment (see Sections 4-8 of this SDS and any supplemental information on the product label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.
P304+P340 If inhaled: Remove person to fresh air and keep comfortable for breathing.
P312 Call a poison center/doctor if you feel unwell.
P331 Do NOT induce vomiting.
P301+P310 If swallowed: Immediately call a poison center/doctor.
P403 Store in a well-ventilated place.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents and container in accordance with local, regional, national, and international regulations.

Hazards Not Otherwise Classified: None

SECTION 3: Composition/Information on Ingredients

Identification	Name	Weight %
CAS Number: 64742-47-8	Distillates (petroleum), hydrotreated light	100

Additional information: No additional information

SECTION 4: First Aid Measures

Description of Necessary Measures

General Notes:

Show this Safety Data Sheet to the doctor in attendance

After Inhalation:

If inhaled, remove person to fresh air and place in a position comfortable for breathing. Keep person at rest. If breathing is difficult, administer oxygen. If breathing has stopped, provide artificial respiration. If symptoms develop or persist, seek medical advice/attention

After Skin Contact:

Remove contaminated clothing and shoes. Rinse skin with copious amounts of water [shower] for several minutes. Launder contaminated clothing before reuse. If symptoms develop or persist, seek medical advice/attention

After Eye Contact:

Rinse eyes with plenty of water for several minutes. Remove contact lenses if present and easy to do so. Protect unexposed eye. If symptoms develop or persist, seek medical advice/attention

After Ingestion:

This product presents an aspiration hazard. If aspiration is suspected, seek emergency medical treatment. If swallowed, DO NOT induce vomiting unless told to do so by a physician or poison control center. Rinse mouth with water. Never give anything by mouth to an unconscious person. If spontaneous vomiting occurs, place on the left side with head down to prevent aspiration of liquid into the lungs. If symptoms develop or persist, seek medical advice/attention

Safety Data Sheet

US Hazard Communication Standard 2024 (29 CFR 1910.1200)

Initial Preparation Date: 01.19.2021

Page 3 of 11

Revision date: 02.17.2026

Kensol 48H

Most Important Symptoms and Effects, Both Acute and Delayed

Acute Symptoms and Effects:

Product is combustible. Exposure to sources of ignition may cause physical injury
Skin contact may result in redness, pain, burning and inflammation
Inhalation may have adverse effects on the central nervous system. Symptoms may include drowsiness, dizziness, headache, nausea and lowering of consciousness. Acute overexposure via inhalation may result in respiratory distress, confusion and unconsciousness
May be fatal if swallowed and enters airways. Aspiration may cause pulmonary edema and pneumonitis. Symptoms may include shortness of breath, dry cough and irritation of the nose, eyes, lips, mouth and throat

Delayed Symptoms and Effects:

Effects are dependent on exposure (dose, concentration, contact time)
Symptoms of pulmonary edema may be delayed

Indication of Immediate Medical Attention and Special Treatment Needed, If Necessary

Immediate Medical Attention:

Skin/eye burns require immediate treatment
Overexposure via inhalation requires urgent medical treatment

Special Treatment:

No additional information.

Notes for the Doctor:

Treat symptomatically

SECTION 5: Firefighting Measures

Extinguishing Media

Suitable Extinguishing Media:

Dry chemical, CO₂, water spray or alcohol-resistant foam

Unsuitable Extinguishing Media:

Do not use water jet

Specific Hazards Arising From The Chemical:

Combustible liquid. Will be easily ignitable by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Inhalation or contact with material may irritate or burn skin and eyes. Fire may produce irritating, corrosive and/or toxic gases. Vapors may cause dizziness or suffocation

Thermal decomposition may produce irritating/toxic fumes/gases

Special Protective Equipment and Precautions for Fire-Fighters

Special Protective Equipment:

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

Special precautions

Evacuate non-essential personnel. Ventilate closed spaces before entering. Consider initial evacuation for 300 meters in all directions. If tank/rail car is involved in the fire, ISOLATE for 800 meters in all directions. Fight fire from a maximum distance. Move containers from fire area if you can do it without risk. Use water spray/fog for cooling fire exposed containers. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank. Always stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles. If this is impossible, withdraw from area and let fire burn. Stand by, at a safe distance, with extinguisher

Safety Data Sheet

US Hazard Communication Standard 2024 (29 CFR 1910.1200)

Initial Preparation Date: 01.19.2021

Page 4 of 11

Revision date: 02.17.2026

Kensol 48H

ready for possible re-ignition. A vapor-suppressing foam may be used to reduce vapors. Avoid unnecessary run-off of extinguishing media which may cause pollution. Do not handle damaged containers unless specialized to do so
Avoid contact with skin, eyes, hair and clothing. Do not breathe fumes/gas/mists/aerosols/vapors/dusts. Move containers from fire area if safe to do so. Use water spray/fog for cooling fire exposed containers. Avoid unnecessary run-off of extinguishing media which may cause pollution

SECTION 6: Accidental Release Measures

Personal Precautions, Protective Equipment, and Emergency Procedures:

Evacuate unnecessary personnel. Ventilate area. Extinguish any sources of ignition. All equipment used when handling the product must be grounded. Wear recommended personal protective equipment (see Section 8). Avoid contact with skin, eyes and clothing. Avoid breathing mist, vapor, dust, fume and spray. Do not walk through spilled material. Wash thoroughly after handling

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Prevent from reaching drains, sewers and waterways. Discharge into the environment must be avoided

Methods and Material for Containment and Cleaning Up:

Do not touch damaged containers or spilled material unless wearing appropriate personal protective clothing. Stop leak if you can do it without risk. A vapor-suppressing foam may be used to reduce vapors. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers for future disposal. Dispose of in accordance with all applicable regulations (see Section 13)

SECTION 7: Handling and Storage

Precautions for Safe Handling:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating and lighting equipment. Take action to prevent static discharges. Handle containers with caution. Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Use appropriate personal protective equipment (see Section 8). Use only with adequate ventilation. Avoid breathing mist/vapor/spray/dust. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid contact with skin, eyes and clothing. Wash affected areas thoroughly after handling. Keep away from incompatible materials (See Section 10). Keep containers tightly closed when not in use.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool, dry, well-ventilated location out of direct sunlight. Keep away from food and beverages. Protect from freezing and physical damage. Store away from heat, open flames and other sources of ignition. Keep container tightly sealed. Store away from incompatible materials (See Section 10).

SECTION 8: Exposure Controls/Personal Protection

Only those substances with limit values have been included below.

Occupational Exposure Limit Values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
NIOSH	Distillates (petroleum), hydrotreated light	64742-47-8	REL-TWA: 350 mg/m ³ (up tp 10 hr [petroleum distillates, naphtha])

Safety Data Sheet

US Hazard Communication Standard 2024 (29 CFR 1910.1200)

Initial Preparation Date: 01.19.2021

Page 5 of 11

Revision date: 02.17.2026

Kensol 48H

Country (Legal Basis)	Substance	Identifier	Permissible concentration
	Distillates (petroleum), hydrotreated light	64742-47-8	Ceiling Limit: 1800 mg/m ³ ([15 min] petroleum distillates, naphtha)
	Distillates (petroleum), hydrotreated light	64742-47-8	REL-TWA: 100 mg/m ³ (up to 10 hr [kerosene])
OSHA	Distillates (petroleum), hydrotreated light	64742-47-8	8-Hour TWA-PEL: 2000 mg/m ³ (500 ppm [aliphatic hydrocarbons])
United States(California)	Distillates (petroleum), hydrotreated light	64742-47-8	8-Hour TWA-PEL: 1600 mg/m ³ (400 ppm [aliphatic hydrocarbons])
ACGIH	Distillates (petroleum), hydrotreated light	64742-47-8	8-Hour TWA: 200 mg/m ³ (Kerosene and jet-fuels [non-aerosol], as total hydrocarbon vapor)

Biological Limit Values:

No biological exposure limits noted for the ingredient(s).

Information on Monitoring Procedures:

Not determined or not applicable.

Appropriate Engineering Controls:

Emergency eye wash stations and safety showers should be available in the immediate vicinity of use or handling. Provide adequate ventilation to maintain the airborne concentrations of vapor, mists, and/or dusts below the applicable workplace exposure limits, while observing recognized national standards (or equivalent).

Individual Protection Measures, Such as Personal Protective Equipment

Eye and Face Protection:

Safety glasses or goggles. Use eye protection equipment that has been tested and approved by recognized national standards (or equivalent).

Skin and Body Protection:

Chemical resistant, impervious gloves approved by the appropriate standards. Gloves must be inspected prior to use. Avoid skin contact with used gloves. Appropriate techniques should be used to remove used gloves and contaminated clothing. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Ensure that all personal protective equipment is approved by recognized national standards (or equivalent).

Respiratory Protection:

If engineering controls do not maintain airborne concentrations below the applicable workplace exposure limits, or to an acceptable level (if exposure limits have not been established), a respirator approved by recognized national standards (or equivalent) must be worn.

General Hygienic Measures:

When handling chemical products, do not eat, drink or smoke. Wash hands after handling, before breaks, and at the end of the workday. Avoid contact with skin, eyes and clothing. Wash contaminated clothing before reuse. Perform routine housekeeping.

SECTION 9: Physical and Chemical Properties

Information on Basic Physical and Chemical Properties

Physical state	Liquid
Color	Clear and Bright

Safety Data Sheet

US Hazard Communication Standard 2024 (29 CFR 1910.1200)

Initial Preparation Date: 01.19.2021

Page 6 of 11

Revision date: 02.17.2026

Kensol 48H

Odor (includes odor threshold)	Not determined or not available.
Melting point/freezing point	Not determined or not available.
Initial boiling point/range	391°F / 391°F - 465°F
Flammability	Not determined or not available.
Upper flammability/explosive limit	Not determined or not available.
Lower flammability/explosive limit	Not determined or not available.
Flash point	160°F
Auto-ignition temperature	Not determined or not available.
Decomposition temperature	Not determined or not available.
pH	Not determined or not available.
Kinematic viscosity	1.8 cSt (40°C mm ² /s)
Solubilities	Not determined or not available.
Partition coefficient (n-octanol/water)	Not determined or not available.
Vapor pressure (includes evaporation rate)	<0.1
Density and/or relative density	6.6 lbs/gal
Relative vapor density	Not determined or not available.
Particle characteristics	Not determined or not available.

Other Information

No additional information.

SECTION 10: Stability and Reactivity

Reactivity:

Not reactive under recommended handling and storage conditions.

Chemical Stability:

Stable under recommended handling and storage conditions.

Possibility of hazardous reactions, including those associated with foreseeable emergencies:

Hazardous reactions are not anticipated under recommended conditions of handling and storage.

Conditions to Avoid:

Extreme heat, open flames, hot surfaces, sparks, ignition sources, static electricity and incompatible materials. Vapor accumulation in low or confined areas.

Incompatible Materials:

None known.

Hazardous Decomposition Products:

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological Information

Acute Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Route	Result
Distillates (petroleum), hydrotreated light	oral	LD50 Rat: >5000 mg/kg
	dermal	LD50 Rabbit: >2000 mg/kg
	inhalation	LC50 Rat: >5.2 mg/L (4 hr [vapor])

Safety Data Sheet

US Hazard Communication Standard 2024 (29 CFR 1910.1200)

Initial Preparation Date: 01.19.2021

Page 7 of 11

Revision date: 02.17.2026

Kensol 48H

Skin Corrosion/Irritation

Assessment:

Causes skin irritation.

Product Data:

No data available.

Substance Data:

Name	Result
Distillates (petroleum), hydrotreated light	Causes skin irritation.

Serious Eye Damage/Irritation

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Respiratory or Skin Sensitization

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Carcinogenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data: No data available.

International Agency for Research on Cancer (IARC):

Name	Classification
Distillates (petroleum), hydrotreated light	Not Applicable

National Toxicology Program (NTP):

Name	Classification
Distillates (petroleum), hydrotreated light	Not Applicable

OSHA Carcinogens: Not applicable

Germ Cell Mutagenicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Reproductive Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Specific Target Organ Toxicity (Single Exposure)

Assessment:

May cause drowsiness or dizziness.

Product Data:

No data available.

Safety Data Sheet

US Hazard Communication Standard 2024 (29 CFR 1910.1200)

Initial Preparation Date: 01.19.2021

Page 8 of 11

Revision date: 02.17.2026

Kensol 48H

Substance Data:

Name	Result
Distillates (petroleum), hydrotreated light	May cause drowsiness or dizziness.

Specific Target Organ Toxicity (Repeated Exposure)

Assessment: Based on available data, the classification criteria are not met.

Product Data:

No data available.

Substance Data: No data available.

Aspiration toxicity

Assessment:

May be fatal if swallowed and enters airways.

Product Data:

No data available.

Substance Data:

Name	Result
Distillates (petroleum), hydrotreated light	May be fatal if swallowed and enters airways.

Information on Likely Routes of Exposure:

No data available.

Symptoms Related to the Physical, Chemical, and Toxicological Characteristics:

No data available.

Interactive effects:

No additional information.

Other Information:

No additional information.

SECTION 12: Ecological Information

Ecotoxicity

Acute (Short-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Result
Distillates (petroleum), hydrotreated light	Fish LC50 <i>Oncorhynchus mykiss</i> : 2 - 5 mg/L (96 hr [LL50 - mortality])
	Aquatic Invertebrates EC50 <i>Daphnia magna</i> : 3 - 10 mg/L (48 hr [EL50 - mobility])
	Aquatic Plants EC50 <i>Raphidocelis subcapitata</i> : 8.3 mg/L (72 hr [EL50 - growth rate])

Chronic (Long-Term) Toxicity

Assessment: Based on available data, the classification criteria are not met.

Product Data: No data available.

Substance Data:

Name	Result
Distillates (petroleum), hydrotreated light	Fish NOEC <i>Oncorhynchus mykiss</i> : 0.098 mg/L (28 d [NOE- mortality, QSAR substance data])
	Aquatic Invertebrates NOEC <i>Daphnia magna</i> : 0.89 mg/L (21 d [EL50 - reproduction])

Safety Data Sheet

US Hazard Communication Standard 2024 (29 CFR 1910.1200)

Initial Preparation Date: 01.19.2021

Page 9 of 11

Revision date: 02.17.2026

Kensol 48H

Persistence and Degradability

Product Data: No data available.

Substance Data:

Name	Result
Distillates (petroleum), hydrotreated light	Standard biodegradability studies are not applicable to petroleum UVCB substances.

Bioaccumulative Potential

Product Data: No data available.

Substance Data:

Name	Result
Distillates (petroleum), hydrotreated light	Standard bioaccumulation studies are not applicable to petroleum UVCB substances.

Mobility in Soil

Product Data: No data available.

Substance Data:

Name	Result
Distillates (petroleum), hydrotreated light	Standard adsorption/desorption studies are not applicable to petroleum UVCB substances.

Results of PBT and vPvB assessment

Product Data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT.

vPvB assessment: This product does not contain any substances that are assessed to be a vPvB.

Substance Data:

PBT assessment:

Distillates (petroleum), hydrotreated light	Standard PBT studies are not applicable to petroleum UVCB substances.
---	---

vPvB assessment:

Distillates (petroleum), hydrotreated light	Standard vBvB studies are not applicable to petroleum UVCB substances.
---	--

Other Adverse Effects: No additional information.

SECTION 13: Disposal Considerations

Disposal Methods:

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.

Contaminated packaging:

Not determined or not applicable.

SECTION 14: Transport Information

United States Transportation of Dangerous Goods (49 CFR DOT)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None

Safety Data Sheet

US Hazard Communication Standard 2024 (29 CFR 1910.1200)

Initial Preparation Date: 01.19.2021

Page 10 of 11

Revision date: 02.17.2026

Kensol 48H

Special Precautions for User	None
Additional Information	Does not sustain combustion - 49 CFR 173.120(b)(3).

International Maritime Dangerous Goods (IMDG)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN Number	Not regulated
UN Proper Shipping Name	Not regulated
UN Transport Hazard Class(es)	None
Packing Group	None
Environmental Hazards	None
Special Precautions for User	None

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Bulk Name	Not Applicable
Ship Type	Not Applicable
Pollution Category	Not Applicable

SECTION 15: Regulatory Information

United States Regulations

Inventory Listing (TSCA): All ingredients are listed-active or exempt.

Significant New Use Rule (TSCA Section 5): None of the ingredients are listed.

Export Notification under TSCA Section 12(b): None of the ingredients are listed.

SARA Section 302 Extremely Hazardous Substances: None of the ingredients are listed.

SARA Section 313 Toxic Chemicals: None of the ingredients are listed.

CERCLA:

64742-47-8	Distillates (petroleum), hydrotreated light	Listed	
------------	---	--------	--

RCRA:

64742-47-8	Distillates (petroleum), hydrotreated light	Listed	D001
------------	---	--------	------

Section 112(r) of the Clean Air Act (CAA): None of the ingredients are listed.

Massachusetts Right to Know:

64742-47-8	Distillates (petroleum), hydrotreated light	Listed	
------------	---	--------	--

New Jersey Right to Know:

64742-47-8	Distillates (petroleum), hydrotreated light	Listed	
------------	---	--------	--

New York Right to Know:

64742-47-8	Distillates (petroleum), hydrotreated light	Listed	
------------	---	--------	--

Pennsylvania Right to Know:

Safety Data Sheet

US Hazard Communication Standard 2024 (29 CFR 1910.1200)

Initial Preparation Date: 01.19.2021

Page 11 of 11

Revision date: 02.17.2026

Kensol 48H

64742-47-8	Distillates (petroleum), hydrotreated light	Listed
------------	---	--------

California Proposition 65: None of the ingredients are listed.

Additional information: No additional information.

SECTION 16: Other Information

Disclaimer:

This product has been classified in accordance with OSHA HCS 2024 guidelines. The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered 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 materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

NFPA: 2-2-0

HMIS: 2-2-0

Initial Preparation Date: 01.19.2021

Revision date: 02.17.2026

Revision Notes:

Revision Date	Notes
2026-02-17	HCS Update and NFPA Diamond Reclassification

End of Safety Data Sheet