

Revision Date: 11-24-2014

# SAFETY DATA SHEET

# 1. Identification

Product identifier: Kerosene, (Low Odor)

Other means of identification

Product No.: P339

Recommended use and restriction on use

Recommended use: Not available. Restrictions on use: Not known.

### Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Company Name: Avantor Performance Materials, Inc. Address: 3477 Corporate Parkway, Suite 200

Center Valley, PA 18034

Telephone:

Customer Service: 855-282-6867

Fax:

Contact Person: Environmental Health & Safety e-mail: info@avantormaterials.com

**Emergency telephone number:** 

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

# 2. Hazard(s) identification

# **Hazard Classification**

# **Physical Hazards**

Flammable liquids Category 3

**Health Hazards** 

Skin Corrosion/Irritation Category 2
Serious Eye Damage/Eye Irritation Category 2A
Specific Target Organ Toxicity - Category 3

Single Exposure

Aspiration Hazard Category 1

#### **Label Elements**

# **Hazard Symbol:**



Signal Word: Danger

**Hazard Statement:** Flammable liquid and vapor.

Causes skin irritation.

Causes serious eye irritation.

May be fatal if swallowed and enters airways.

May cause drowsiness or dizziness.



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Precautionary Statement

Prevention: Keep away from heat/sparks/open flames/hot surfaces. No smoking. Keep

container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash hands thoroughly after handling. Wear protective gloves/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only

outdoors or in a well-ventilated area.

**Response:** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/shower. If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF SWALLOWED: Immediately call a

POISON CENTER or doctor/physician. Do NOT induce vomiting. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. Take off contaminated clothing and wash it before reuse.

Storage: Store in a well-ventilated place. Keep cool. Store locked up. Keep container

tightly closed.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

None.

# 3. Composition/information on ingredients

#### **Substances**

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%)*
KEROSENE		8008-20-6	60 - 100%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet

to the doctor in attendance.

**Ingestion:** Rinse mouth. If vomiting occurs, keep head low so that stomach content

doesn't get into the lungs. Get medical attention if symptoms occur.

**Inhalation:** Move to fresh air. Get medical attention if symptoms persist.

**Skin Contact:** Immediately flush with plenty of water for at least 15 minutes while

removing contaminated clothing and shoes. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.

Destroy or thoroughly clean contaminated shoes.

**Eye contact:** Immediately flush with plenty of water for at least 15 minutes. If easy to do,

remove contact lenses. Get medical attention if irritation persists after

washing.



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# Most important symptoms/effects, acute and delayed

**Symptoms:** Irritating to eyes, respiratory system and skin.

Indication of immediate medical attention and special treatment needed

**Treat symptomatically.** Symptoms may be delayed.

# 5. Fire-fighting measures

**General Fire Hazards:** Flammable liquid and vapor.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Foam. Dry chemical. Carbon dioxide

Unsuitable extinguishing

media:

Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from

the chemical:

Vapors may cause a flash fire or ignite explosively. Vapors may travel considerable distance to a source of ignition and flash back. Prevent buildup of vapors or gases to explosive concentrations. Heat may cause the containers to explode.

#### Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

Use water spray to keep fire-exposed containers cool. Water may be ineffective in fighting the fire. Fight fire from a protected location. Move containers from fire area if you can do so without risk.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep unauthorized personnel away. Keep upwind. Use personal protective equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. See Section 8 of the MSDS for Personal Protective Equipment.

Methods and material for containment and cleaning

up:

Eliminate all ignition sources if safe to do so. Take precautionary measures against static discharges. Stop leak if possible without any risk. Use only non-sparking tools. Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Clean surface thoroughly to remove residual contamination. Dike far ahead of larger spill for later recovery and disposal.

**Notification Procedures:** 

Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved.

**Environmental Precautions:** 

Do not contaminate water sources or sewer. Prevent further leakage or

spillage if safe to do so.



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# 7. Handling and storage

**Precautions for safe handling:** DO NOT handle, store or open near an open flame, sources of heat or

sources of ignition. Protect material from direct sunlight. Take precautionary measures against static discharges. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Wear protective gloves/protective clothing/eye protection/face protection. Avoid contact with eyes, skin, and clothing. Do not taste or swallow. Use only with adequate ventilation. Wash hands

thoroughly after handling.

Conditions for safe storage,

including any incompatibilities:

Keep away from food, drink and animal feeding stuffs. Keep container tightly closed in a cool, well-ventilated place. Ground container and transfer equipment to eliminate static electric sparks. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of flammable liquids.

# 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	Exposure Limit Values	Source
KEROSENE - Non-aerosol as total hydrocarbon vapor	TWA	200 mg/m3	US. ACGIH Threshold Limit Values (2011)
KEROSENE	REL	100 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2010)

# Appropriate Engineering

No data available.

Individual protection measures, such as personal protective equipment

Controls

General information:

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment.

Eye/face protection:

Wear safety glasses with side shields (or goggles).

**Skin Protection** 

Hand Protection:

Chemical resistant gloves

Other:

Wear suitable protective clothing.

**Respiratory Protection:** 

In case of inadequate ventilation use suitable respirator.

Hygiene measures:

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Provide eyewash station and safety shower.

# 9. Physical and chemical properties

# **Appearance**

Physical state: Liquid

Form: No data available.

Color: Colorless, Pale yellow



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Odor: Characteristic
Odor threshold: No data available.

pH: No data available.

Melting point/freezing point: Approximate -45.6 °C

Initial boiling point and boiling range: 175 - 325 °C

**Flash Point:** 38 - 52 °C (Closed Cup) **Evaporation rate:** No data available.

Flammability (solid, gas): Class II Combustible Liquid

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): 5 %(V)

Flammability limit - lower (%): 0.7 %(V)

Explosive limit - upper (%):

Explosive limit - lower (%):

Vapor pressure:

No data available.

No data available.

0.063994 kPa (20 °C)

Vapor density: 4.5 AIR=1

Relative density: Approximate 0.80

Solubility(ies)

Solubility in water: Insoluble in water
Solubility (other): No data available.
Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature: 210 °C

**Decomposition temperature:**No data available. **Viscosity:**No data available.

Other information

Molecular weight: 170 g/mol

### 10. Stability and reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

Chemical Stability: Material is stable under normal conditions.

Possibility of Hazardous

Reactions:

Hazardous polymerization does not occur.

**Conditions to Avoid:** Heat, sparks, flames. Contact with incompatible materials.

Incompatible Materials: Strong oxidizing agents. Flammable/combustible material.

**Hazardous Decomposition** 

**Products:** 

Thermal decomposition may release oxides of carbon.

# 11. Toxicological information

#### Information on likely routes of exposure

**Ingestion:** May cause irritation of the gastrointestinal tract.

**Inhalation:** Breathing of high vapor concentrations may cause dizziness, light-

headedness, headache, nausea and loss of coordination. Continued inhalation may result in unconsciousness. Severely irritating to respiratory

system.

**Skin Contact:** Causes skin irritation.

**Eye contact:** Causes serious eye irritation.



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# Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Guinea Pig): 20,000 mg/kg

LD 50 (Rabbit): 2,835 mg/kg LD (Rat): > 5,000 mg/kg

**Dermal** 

**Product:** LD 50 (Rat): > 2,000 mg/kg

LD (Rabbit): > 2,000 mg/kg

Inhalation

**Product:** LC 50 (Rat, 4 h): > 5 mg/l

**Repeated Dose Toxicity** 

**Product:** No data available.

Skin Corrosion/Irritation

**Product:** Causes skin irritation.

Serious Eye Damage/Eye Irritation

**Product:** Causes serious eye irritation.

Respiratory or Skin Sensitization

**Product:** Not a skin sensitizer.

Carcinogenicity

**Product:** This substance has no evidence of carcinogenic properties.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:** 

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

**Germ Cell Mutagenicity** 

In vitro

**Product:** No mutagenic components identified

In vivo

**Product:** No mutagenic components identified

**Reproductive Toxicity** 

**Product:** No components toxic to reproduction

Specific Target Organ Toxicity - Single Exposure

**Product:** Narcotic effect.

**Specific Target Organ Toxicity - Repeated Exposure** 

**Product:** No data available.

**Aspiration Hazard** 

**Product:** May be fatal if swallowed and enters airways.

Other Effects: None known.



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# 12. Ecological information

# **Ecotoxicity:**

Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

Chronic hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

**Aquatic Invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Persistence and Degradability

Biodegradation

**Product:** There are no data on the degradability of this product.

**BOD/COD Ratio** 

**Product:** No data available.

**Bioaccumulative Potential** 

**Bioconcentration Factor (BCF)** 

**Product:** No data available on bioaccumulation.

Partition Coefficient n-octanol / water (log Kow)
Product:
No data available.

Mobility in Soil: No data available.

Other Adverse Effects: The product components are not classified as environmentally hazardous.

However, this does not exclude the possibility that large or frequent spills

can have a harmful or damaging effect on the environment.

13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local

laws. Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and

product characteristics at time of disposal.

Contaminated Packaging: Since emptied containers retain product residue, follow label warnings even

after container is emptied.



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# 14. Transport information

DOT

UN Number: UN 1223 UN Proper Shipping Name: Kerosene

Transport Hazard Class(es)

Class(es): 3
Label(s): 3
Packing Group: III
Marine Pollutant: No

**IMDG** 

UN Number: UN 1223 UN Proper Shipping Name: KEROSENE

Transport Hazard Class(es)

 Class(es):
 3

 Label(s):
 3

 EmS No.:
 F-E, S-E

 Packing Group:
 III

**IATA** 

UN Number: UN 1223
Proper Shipping Name: Kerosene

Transport Hazard Class(es):

Marine Pollutant:

Class(es): 3
Label(s): 3

Marine Pollutant: No
Packing Group: III

# 15. Regulatory information

#### **US Federal Regulations**

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

No

None present or none present in regulated quantities.

#### **CERCLA Hazardous Substance List (40 CFR 302.4):**

None present or none present in regulated quantities.

# Superfund Amendments and Reauthorization Act of 1986 (SARA)

# **Hazard categories**

Χ	Acute (Immediate)		Chronic (Delayed)	Χ	Fire		Reactive		Pressure Generating
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### **SARA 302 Extremely Hazardous Substance**

None present or none present in regulated quantities.

# **SARA 304 Emergency Release Notification**

None present or none present in regulated quantities.



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### SARA 311/312 Hazardous Chemical

**Threshold Planning Quantity** Chemical Identity

KEROSENE 500 lbs

# SARA 313 (TRI Reporting)

None present or none present in regulated quantities.

#### Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

#### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

### **US State Regulations**

### **US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

# US. New Jersey Worker and Community Right-to-Know Act

Listed **KEROSENE** 

#### US. Massachusetts RTK - Substance List

KEROSENE Listed

#### US. Pennsylvania RTK - Hazardous Substances

KEROSENE Listed

#### **US. Rhode Island RTK**

No ingredient regulated by RI Right-to-Know Law present.

#### **Inventory Status:**

Australia AICS: On or in compliance with the inventory Canada DSL Inventory List: On or in compliance with the inventory EINECS, ELINCS or NLP: On or in compliance with the inventory Japan (ENCS) List: Not in compliance with the inventory. China Inv. Existing Chemical Substances: On or in compliance with the inventory Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory Canada NDSL Inventory: Not in compliance with the inventory. Philippines PICCS: On or in compliance with the inventory US TSCA Inventory: On or in compliance with the inventory New Zealand Inventory of Chemicals: On or in compliance with the inventory Not in compliance with the inventory.

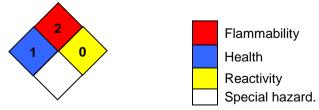
Not in compliance with the inventory.

Japan ISHL Listing:

Japan Pharmacopoeia Listing:

# 16.Other information, including date of preparation or last revision

# **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

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**Revision Date:** No data available.

Version #: 1.0

Further Information: No data available.

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