

KD HB 103179

**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

Ashland	Regulatory Information Number	1-800-325-3751
P.O. Box 2219	Telephone	614-790-3333
Columbus, OH 43216	Emergency telephone number	1-800-ASHLAND (1-800-274-5263)

Product name	KD HB
Product code	103179
Product Use Description	No data

**2. HAZARDS IDENTIFICATION**

**Emergency Overview**

Appearance: liquid

WARNING! Combustible Liquid, Highly toxic by inhalation, Skin sensitizer, Moderate skin irritant, Moderate eye irritant.

**Potential Health Effects**

**Routes of exposure**

Inhalation, Skin absorption, Skin contact, Eye Contact, Ingestion

**Eye contact**

May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

**Skin contact**

Can cause skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, and drying and cracking of skin, burns and other skin damage. Additional symptoms of skin contact may include: allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects) Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

**Ingestion**

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful. This material can get into the lungs during swallowing or vomiting. This results in lung inflammation and other lung injury.

**Inhalation**

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Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

#### **Aggravated Medical Condition**

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions)

#### **Symptoms**

Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness) and other central nervous system effects

#### **Target Organs**

Exposure to this material (or a component) has been found to cause kidney damage in male rats. The mechanism by which this toxicity occurs is specific to the male rat and the kidney effects are not expected to occur in humans. Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: mild, reversible liver effects, mild, reversible kidney effects

#### **Carcinogenicity**

Based on the available information, this material cannot be classified with regard to carcinogenicity. This material is not listed as a carcinogen by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP), or the Occupational Safety and Health Administration (OSHA). d-Limonene caused kidney cancer in male rats, but not in female rats or in mice of either sex, when given to the animals through a feeding tube. The relevance of this finding to humans is uncertain.

#### **Reproductive hazard.**

This material (or a component) has been shown to cause harm to the fetus in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

#### **Other information**

No data

### **3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>Components</b>	<b>CAS-No.</b>	<b>Concentration</b>
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MINERAL SPIRITS REGULAR (BASE DATA)	8052-41-3	>=90-<=100%
CYCLIC HYDROCARBON	NJTS# 254504001- 5323	>=5-<10%

#### **4. FIRST AID MEASURES**

##### **Eyes**

If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.

##### **Skin**

Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

##### **Ingestion**

Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

##### **Inhalation**

If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.

##### **Notes to physician**

**Hazards:** This material is an aspiration hazard. Potential danger from aspiration must be weighed against possible oral toxicity (See Section 2 - Swallowing) when deciding whether to induce vomiting.

**Treatment:** No information available.

#### **5. FIRE-FIGHTING MEASURES**

##### **Suitable extinguishing media**

Water mist, carbon dioxide (CO2), dry chemical

##### **Hazardous combustion products**

May form:, carbon dioxide and carbon monoxide, various hydrocarbons

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**Precautions for fire-fighting**

If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release. Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

**Flammability Class for Flammable Liquids**

Combustible Liquid Class II

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions**

For personal protection see section 8. Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

**Environmental precautions**

No data

**Methods for cleaning up**

Absorb liquid on vermiculite, floor absorbent, or other absorbent material and transfer to hood.

**7. HANDLING AND STORAGE**

**Handling**

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. Emergency eyewash fountains and safety showers should be available in the immediate vicinity of potential exposure. Static ignition hazard can result from handling and use. Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Special precautions may be necessary to dissipate static electricity for non-conductive containers. Use proper bonding and grounding during product transfer as described in National Fire Protection Association document NFPA 77.

**Storage**

No data

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**8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Exposure Guidelines****MINERAL SPIRITS REGULAR (BASE 8052-41-3  
DATA)**

ACGIH	time weighted average	100 ppm
NIOSH	Recommended exposure limit (REL):	350 mg/m3
NIOSH	Ceiling Limit Value and Time Period (if specified):	1,800 mg/m3
OSHA Z1	Permissible exposure limit	500 ppm
OSHA Z1	Permissible exposure limit	2,900 mg/m3
OSHA Z1A	time weighted average	100 ppm
OSHA Z1A	time weighted average	525 mg/m3
US CA OEL	Time Weighted Average (TWA)	100 ppm
US CA OEL	Permissible Exposure Limit (PEL):	
US CA OEL	Time Weighted Average (TWA)	525 mg/m3
US CA OEL	Permissible Exposure Limit (PEL):	

**General advice**

These recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

**Exposure controls**

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

**Eye protection**

Wear safety glasses in compliance with OSHA regulations. (Consult your safety representative.)

**Skin and body protection**

Wear resistant gloves (consult your safety equipment supplier).  
To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**Respiratory protection**

If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH-approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH respirators

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(negative pressure type) under specified conditions (see your industrial hygienist).  
Engineering or administrative controls should be implemented to reduce exposure.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	liquid
<b>Form</b>	No data
<b>Colour</b>	No data
<b>Odour</b>	No data
<b>Boiling point/range</b>	No data
<b>pH</b>	No data
<b>Flash point</b>	106 °F / 41 °C Tag closed cup
<b>Evaporation rate</b>	1 Ethyl Ether
<b>Explosion limits</b>	No data
<b>Vapour pressure</b>	No data
<b>Vapour density</b>	1
<b>Density</b>	0.775 g/cm <sup>3</sup> @ 77.00 °F / 25.00 °C 6.45 lb/gal @ 77.00 °F / 25.00 °C
<b>Solubility</b>	No data
<b>Partition coefficient (n-octanol/water)</b>	No data
<b>Autoignition temperature</b>	No data

## 10. STABILITY AND REACTIVITY

### Stability

Stable.

### Conditions to avoid

None known.

### Incompatible products

Avoid contact with:, strong oxidizing agents

### Hazardous decomposition products

May form:, carbon dioxide and carbon monoxide, various hydrocarbons

### Hazardous reactions

Product will not undergo hazardous polymerization.

### Thermal decomposition

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No data

## 11. TOXICOLOGICAL INFORMATION

### Acute oral toxicity

MINERAL SPIRITS REGULAR (BASE DATA)	LD 50 Rat: 5 g/kg
CYCLIC HYDROCARBON	LD 50 Rat: 5 g/kg

### Acute inhalation toxicity

### Acute dermal toxicity

MINERAL SPIRITS REGULAR (BASE DATA)	LD 50 Rabbit: 3 g/kg
CYCLIC HYDROCARBON	LD 50 Rabbit: 5 g/kg

## 12. ECOLOGICAL INFORMATION

### Aquatic toxicity

#### Acute and Prolonged Toxicity to Fish

No data

#### Acute Toxicity to Aquatic Invertebrates

No data

### Environmental fate and pathways

No data

## 13. DISPOSAL CONSIDERATIONS

### Waste disposal methods

Dispose of in accordance with all applicable local, state and federal regulations. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant

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authority. For guidance, contact your State Water Board or Regional Office of the EPA. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution Company, IC&S Environmental Services Group at 800-637-7922.

#### **14. TRANSPORT INFORMATION**

**IMDG:**

UN1993, FLAMMABLE LIQUID, N.O.S. (ALIPHATIC PETROLEUM DISTILLATES, ) 3, III

**IATA\_P:**

UN1993, Flammable liquid, n.o.s. (ALIPHATIC PETROLEUM DISTILLATES, ) 3, III

**IATA\_C:**

UN1993, Flammable liquid, n.o.s. (ALIPHATIC PETROLEUM DISTILLATES, ) 3, III

**CFR\_ROAD:**

UN1993, Flammable liquids, n.o.s. (ALIPHATIC PETROLEUM DISTILLATES, ) 3, III

**CFR\_RAIL:**

UN1993, Flammable liquids, n.o.s. (ALIPHATIC PETROLEUM DISTILLATES, ) 3, III

**CFR\_INWTR:**

UN1993, Flammable liquids, n.o.s. (ALIPHATIC PETROLEUM DISTILLATES, ) 3, III

**IMDG\_INWTR:**

UN1993, FLAMMABLE LIQUID, N.O.S. (ALIPHATIC PETROLEUM DISTILLATES, ) 3, III

**IMDG\_ROAD:**

UN1993, FLAMMABLE LIQUID, N.O.S. (ALIPHATIC PETROLEUM DISTILLATES, ) 3, III

**IMDG\_RAIL:**

UN1993, FLAMMABLE LIQUID, N.O.S. (ALIPHATIC PETROLEUM DISTILLATES, ) 3, III

Dangerous goods descriptions may not reflect package size, quantity, end-use or region-specific exceptions that can be applied to shipments. Consult shipping documents for material-specific descriptions.

#### **15. REGULATORY INFORMATION**

**California Prop. 65**

This product does not contain any chemicals known to State of California to cause cancer,

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birth defects or any other harm.

**SARA Hazard Classification** Fire Hazard  
Acute Health Hazard

**SARA 313 Component(s)**

**OSHA Hazards** Combustible Liquid  
Highly toxic by inhalation  
Skin sensitizer  
Moderate skin irritant  
Moderate eye irritant

	<b>Health</b>	<b>Flammability</b>	<b>Reactivity</b>	<b>Other</b>
<b>HMIS</b>	1	2	0	
<b>NFPA</b>	1	2	0	

**16. OTHER INFORMATION**

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

This MSDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).