

ASHLAND.

Y-1346

10/04/2010

ATTN:MSDS COORDINATOR

Ashland provides its customers with a Material Safety Data Sheet (MSDS) the first time a product is purchased or sampled for testing. In some cases, an MSDS is distributed on an annual basis to comply with specific regulatory requirements even if there has been no revision. If the MSDS is significantly changed, a copy of the revised sheet is sent to customers who purchased the product in the previous twelve months.

The Material Safety Data Sheet is addressed to the attention of the MSDS COORDINATOR and is sent according to the contact information that Ashland has on file for your organization. You should direct the Material Safety Data Sheet to those responsible for managing or designing operations involving the use of the product and those who use or handle the product and may potentially be exposed to it.

Ashland is committed to providing accurate health and safety information on the products that we manufacture or distribute.

If you have any further questions or concerns, please feel free to contact us.

US and Canada: 1-800-325-3751

Europe, Africa, and Middle East: +31 10 497 5000

All others: +1-614-790-4612

Ship To: 0000088362

GLYCERINE NAT 99.7% USP K
71474

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE 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	1-800-ASHLAND (1-800-274-5263)

Product name	GLYCERINE NAT 99.7% USP K
Product code	71474
Product Use Description	No data

2. HAZARDS IDENTIFICATION

Emergency Overview

Appearance: liquid,, colourless

CAUTION! NOTICE: WHILE THIS MATERIAL HAS A LOW LEVEL OF TOXICITY, GOOD INDUSTRIAL HYGIENE PRACTICES ARE ENCOURAGED TO MINIMIZE EXPOSURE.

Potential Health Effects

Exposure routes

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

Eye contact

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

Skin contact

Unlikely to cause skin irritation or injury.

Ingestion

Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

Inhalation

Symptoms are not expected at air concentrations below the recommended exposure limits, if applicable (see Section 8.).

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Aggravated Medical Condition

Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material:, 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), thirst, irritation (nose, throat, airways), Headache, Dizziness

Target Organs

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

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).

Reproductive hazard

Based on the available information, risk to the fetus from maternal exposure to this material cannot be assessed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Concentration
GLYCERINE	56-81-5	<=100%

4. FIRST AID MEASURES

Eyes

If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.

Skin

If on skin, rinse well with water. If skin irritation persists, call a physician.

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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: Glycerine may be absorbed in potentially harmful amounts if applied in large quantities to severe burns over large areas of the body. This can result in elevated serum osmolality and subsequent osmotic shock.

Treatment: No information available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Dry chemical, Carbon dioxide (CO₂)

Hazardous combustion products

Aldehydes, carbon dioxide and carbon monoxide, nitrogen oxides (NO_x)

Precautions for fire-fighting

Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA). DO NOT direct a solid stream of water or foam into hot, burning pools of liquid since this may cause frothing and increase fire intensity. Frothing can be violent and possibly endanger any firefighter standing too close to the burning liquid. Use water spray to cool fire exposed containers and structures until fire is out if it can be done with minimal risk. Avoid spreading burning liquid with water used for cooling purposes.

Flammability Class for Flammable Liquids

Combustible Liquid Class IIIB

6. ACCIDENTAL RELEASE MEASURES

Personal precautions

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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 exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Eye protection

Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection

Wear normal work clothing including long pants, long-sleeved shirts and foot covering to prevent direct contact of the product with the skin. Launder clothing before reuse. If skin irritation develops, contact your facility health and safety professional or your local safety equipment supplier to determine the proper personal protective equipment for your use.

Respiratory protection

A NIOSH-approved air-purifying respirator with an appropriate cartridge and/or filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits (if applicable) or if overexposure has otherwise been determined. Protection provided by air-purifying respirators is limited. Use a positive pressure, air-supplied respirator if there is any potential for uncontrolled release, exposure levels are not known or any other circumstances where an air-purifying respirator may not provide adequate protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state	liquid
Form	Syrupy liquid
Colour	colourless
Odour	odourless
Boiling point/boiling range	340.00 °F / 340 °F@ 760.00 mmHg
Melting point/range	64 °F / 18 °C
pH	No data
Flash point	390 °F / 199 °C, Cleveland open cup
Evaporation rate	1 (Ethyl Ether)
Explosion limits	No data

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Vapour pressure 1.00 mmHg @ 68.00 °F / 20.00 °C
Vapour density 3.1 (AIR=1)
Density 1.261 g/cm3 @ 77.00 °F / 25.00 °C
10.5 lb/gal @ 77.00 °F / 25.00 °C
Solubility soluble in water
Partition coefficient: n-octanol/water No data
log Pow no data available
Autoignition temperature 698 °F / 370 °C

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to avoid

None known.

Incompatible products

Strong oxidizing agents

Hazardous decomposition products

acrolein, Aldehydes, carbon dioxide and carbon monoxide

Hazardous reactions

Product will not undergo hazardous polymerization.

Thermal decomposition

No data

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity

GLYCERINE	LD 50 Rat: 12,600 mg/kg
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Acute inhalation toxicity

GLYCERINE	LC 50 Rat: > 570 mg/m3 , 1 h
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Acute dermal toxicity

GLYCERINE	LD 50 Rabbit: > 10 g/kg
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12. ECOLOGICAL INFORMATION

Aquatic toxicity

Acute and Prolonged Toxicity to Fish

LC 50 , : > 5,000 mg/l

Acute Toxicity to Aquatic Invertebrates

No data

Environmental fate and pathways

No data

13. DISPOSAL CONSIDERATIONS

Waste disposal methods

For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact Ashland Distribution's Environmental Services Group at 800-637-7922.

14. TRANSPORT INFORMATION

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

15. REGULATORY INFORMATION

California Prop. 65

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

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cancer, birth, or any other reproductive defects.

New Jersey RTK Label Information

GLYCERINE 56-81-5

Pennsylvania RTK Label Information

GLYCERINE 56-81-5

Reportable quantity - Components

GLYCERINE 56-81-5 none

	Health	Flammability	Reactivity	Other
HMIS	1	1	0	
NFPA	1	1	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).