

MATERIAL SAFETY DATA SHEET

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SECTION I - NAME & HAZARD SUMMARY

Material Name: **GLYCERIN USP**

Dated: 08/12/02

INCI Name: Glycerin

Updated: 05/22/03

SECTION II - INGREDIENTS

% TLV (ACGIH)

CAS No.: 56-81-5

HS #: 2905.45.00

SECTION III- PHYSICAL DATA

Initial boiling point: 554°C

Vapor pressure: 2.4 mm Hg @ 140°C; 115 M bar @100°C

Weight per gallon: 10.51 lbs

Vapor density: >1

Evaporation rate: <1

Appearance: Clear, syrupy liquid

SECTION IV - FIRE & EXPLOSION HAZARD DATA

NFPA Hazard Rating:

Health: 0

Flammability: 1

Reactivity: 1

Flash point (and method):

390°C

Fire point:

400°F

Extinguishing media:

Water, foam, dry chemical or carbon dioxide.

Special firefighting procedures:

Firefighters should wear NIOSH approved self-contained breathing apparatus

Unusual fire and explosion hazards: Cool as rapidly as possible to reduce toxic acrolein level.

(Acrolein formed at boiling point is explosive with air)

SECTION V - REACTIVITY DATA

Stability:

Stable

Hazardous decomposition products:

Acrolein if heated to 500°F.

Materials to avoid:

Nitric acid, potassium per manganate, etc.

Conditions to avoid:

Oxidants

Hazardous polymerization:

Will not occur.

SECTION VI - HEALTH HAZARD ASSESSMENT

Primary route of exposure under normal use: Skin

Acute effects from overexposure:

Oral: Diarrhea & vomiting, cramps, increased pulse and respiration rate, increased body temperature, falling blood pressure.

First aid procedures:

Skin: Wash off skin with copious amounts of water. If irritation develops, seek medical attention.

Eyes: Flush with water for 15 minutes, if irritation develops, seek medical attention.

Inhalation: Remove to fresh air.

Ingestion: Administer small amounts of water to dilute the glycerol.

SECTION VII - SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled: Pick up with absorbent material and transfer to a suitable container for disposal.

Dispose of in accordance with are Federal, State and Local Regulations.

Disposal method: Small quantities may be flushed away with water.

SECTION VIII - SPECIAL PROTECTION INFORMATION

Ventilation: Local exhaust required.

Respiratory protection (specify type): Only if used at temperatures of >140°C.

Protective clothing: Gloves for thermal protection.

Eye protection: Splash shield.

Other protective equipment: Thermal protection when necessary.

SECTION IX - SPECIAL PRECAUTIONS OR OTHER COMMENTS

Precautions to be taken in handling and storing: To retain color and purity store in stainless steel vessels with provision made to protect against absorption of moisture from air.

The information herein is given in good faith, but no warranty, expressed or implied is made. To retain color and purity, store in stainless steel vessels with provision made to protect against absorption of moisture from air.