

# MATERIAL SAFETY DATA SHEET

## MSDS K-112 REVISION 2

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### SUBSTANCE IDENTIFICATION

SUBSTANCE: GLYCERIN

TRADE NAMES/SYNONYMS: **GLYCERIN SWEETWATER**

CHEMICAL FAMILY: Mixture

I.D. NUMBER: 900413 (Glycerin Sweetwater)

NFPA RATINGS (Scale 0-4, where 4=high degree of hazard): HEALTH=1 FLAMMABILITY=1 REACTIVITY=0  
HMIS RATINGS (Scale 0-4, where 4=severe hazard): HEALTH=1 FLAMMABILITY=1 REACTIVITY=0

### HAZARDOUS INGREDIENT INFORMATION

COMPONENT: GLYCERIN CAS# 56-81-5  
5 mg/m<sup>3</sup> OSHA TWA (respirable fraction); 15 mg/m<sup>3</sup> OSHA TWA (total mist)  
10 mg/m<sup>3</sup> ACGIH TWA (mist)

Carcinogen status of component: Not listed as a carcinogenic by NTP, IARC, or OSHA.

### PHYSICAL AND CHEMICAL DATA

DESCRIPTION: A clear, viscous light liquid.

pH: 9.0 -12.0 (as is)

SOLUBILITY IN WATER: Dissolves.

### FIRE AND EXPLOSION DATA

FLASH POINT (for glycerin): >200 °F

OSHA FLAMMABILITY CLASSIFICATION (for glycerin): IIIB

FIRE AND EXPLOSION HAZARD - Negligible fire hazard when exposed to heat or flame.

FIRE FIGHTING MEDIA - Use agents suitable for type of surrounding fire.

FIRE FIGHTING - Move container from fire area if you can do it without risk. Do not scatter spilled material with high-pressure water streams. Dike fire-control water for later disposal. Avoid breathing vapors, keep upwind.

## HEALTH HAZARD DATA

NOTE: The acute health effects described below are those which could potentially occur for the finished product. They are based on the toxicology information available for the finished product and/or each hazardous ingredient, and are consistent with the product type and the likelihood of a specific route of exposure. Known chronic health effects related to exposure to a specific ingredient are indicated.

### ACUTE HEALTH EFFECTS:

- INHALATION:** Vapors or mists in sufficient concentrations may cause respiratory irritation.
- SKIN CONTACT:** Repeated or prolonged exposure may cause severe irritation with redness, blistering and skin damage.
- EYE CONTACT:** May cause severe irritation with redness, pain, blurred vision, and possibly corneal injury.
- INGESTION:** An unlikely route of exposure; however, ingestion may cause gastrointestinal irritation with nausea, vomiting and diarrhea.

**CHRONIC HEALTH EFFECTS:** None known.

**MEDICAL CONDITIONS GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE:** Pre-existing skin and respiratory conditions.

## EMERGENCY AND FIRST AID PROCEDURES

**INHALATION:** Immediately remove from exposure area to fresh air. Keep affected person warm and at rest. Treat symptomatically and supportively. Contact physician or local poison control center. If breathing has stopped, give artificial respiration, and get medical attention immediately.

**SKIN CONTACT:** Wash affected area with mild soap and rinse with plenty of water until no evidence of product remains. Get medical attention if irritation persists.

**EYE CONTACT:** Immediately rinse eyes with plenty of water, occasionally lifting upper and lower lids, until no evidence of product remains. Get medical attention if pain or irritation persist.

**INGESTION:** Immediately get medical attention. Treat symptomatically and supportively. Maintain airway and respiration. DO NOT induce vomiting. If vomiting occurs, keep head below hips to prevent aspiration. Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. If unconscious, the victim should not be given anything to drink. Contact physician or local poison control center.

## REACTIVITY

**REACTIVITY - Stable.**

**INCOMPATIBILITIES:** Strong oxidizers, strong acids, strong bases, peroxides, metal oxides, reducing agents, liquid chlorine.

**DECOMPOSITION -** Thermal decomposition may release toxic and/or hazardous gases, including corrosive fumes of acrolein.

**POLYMERIZATION -** Hazardous polymerization has not been reported to occur under normal temperatures and pressures.

## STORAGE AND DISPOSAL

Store away from incompatible substances and excessive heat. Observe all federal, state and local regulations when storing or disposing of this substance.

## CONDITIONS TO AVOID

Avoid contact with incompatible substances and excessive heat.

## SPILL AND LEAK PROCEDURES

OCCUPATIONAL SPILL - Stop leak if you can do it without risk. DO NOT touch material. Use water spray to reduce vapors. For small spills, take up with sand or other absorbent material and place into containers for later disposal. For larger spills, dike far ahead of spill for later disposal. Keep unnecessary people away; isolate hazard area and restrict entry.

## OCCUPATIONAL PROTECTIVE EQUIPMENT

VENTILATION - Provide local exhaust ventilation system to meet permissible exposure limits where vapors or mists are likely to be generated.

RESPIRATOR - Air contamination monitoring should be carried out where vapors or mists are likely to be generated to assure that the employees are not exposed to harmful concentrations exceeding permissible exposure limits. If respiratory protection is required, it must be based on the contamination levels found in the workplace, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

FOR FIRE FIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS - Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure-demand or other positive-pressure mode.

CLOTHING - Protective clothing (impervious) is required where repeated or prolonged skin contact may occur.

GLOVES - Chemical-resistant gloves are required where repeated or prolonged skin contact may occur.

EYE PROTECTION - Safety glasses are required to prevent eye contact where splashing of product may occur.

## REGULATORY INFORMATION

DOT FLAMMABILITY CLASSIFICATION:

Not applicable.

EPA - SARA TITLE III SECTION 313:

Toxic chemical: None.

TSCA:

All components of this product are listed or are exempted or excluded from listing on the U.S. Toxic Substances Control Act (TSCA) chemical substance inventory.

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SUPERSEDES: Rev. 1; 12/31/97

REVISION DATE: 10/27/04

REVISION: Update Trade Name and ID Numbers.