

# MATERIAL SAFETY DATA SHEET

## **GLYCERINE GARD 48**

### SECTION 1 IDENTIFICATION

COMPANY NAME: CHEMICAL SPECIALTIES, INC.  
6700 Stapleton Drive South Denver, CO 80216  
EMERGENCY PHONE NUMBER: 303-675-0944  
TRADE NAME/DESCRIPTION: Glycerine Gard 48 Pre-Diluted  
SAP Material no: 3405097 400 O1S  
General or Generic ID: POLYOL

### SECTION 2 COMPOSITION / INFORMATION ON INGREDIENTS

<u>HAZARDOUS COMPONENTS</u>	<u>CAS#</u>	<u>Percentage</u>	<u>TLV Source</u>
Chemical Name/ Common Name			
Glycerine	56-81-5	48	N/A
Deionized Water	7732-18-5	52	N/A

### SECTION 3 HAZARDS IDENTIFICATION

#### HEALTH HAZARDS:

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

**SKIN:** Unlikely to cause skin irritation or injury. 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.

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

**INHALATION:** It is possible to breathe this material under certain conditions of handling and use (for example, during heating, spraying or stirring). Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful. Symptoms usually occur at air concentrations higher than the the recommended exposure limits (See Section #8).

**SYMPTOMS OF EXPOSURE:** 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 ORGAN EFFECTS: 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.

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

CANCER INFORMATION: This material is not expected to cause cancer in humans since it did not cause cancer in laboratory animals. This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration.

OTHER HEALTH EFFECTS: No Data

PRIMARY ROUTE (S) OF ENTRY: Inhalation, Skin absorption, Skin Contact, Eye contact, Ingestion.

#### **SECTION 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: First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.

SWALLOWING: Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with 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; IMMEDIATELY seek medical attention.

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

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### **SECTION 5 FIRE FIGHTING MEASURES**

FLASH POINT: 390.0 F (198.8 C) PMCC

EXPLOSIVE LIMIT: Not Applicable

AUTOIGNITION TEMPERATURE: 698.0 F (370.0 C)

HAZARDOUS PRODUCTS OF COMBUSTION: May form: Aldehydes, carbon dioxide and carbon monoxide, nitrogen oxides.

FIRE AND EXPLOSION HAZARDS: No special fire hazards are known to be associated with this product.

EXTINGUISHING MEDIA: Alcohol resistant (AR) foam, water fog, carbon dioxide dry chemical.

FIRE FIGHTING INSTRUCTIONS: 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. Wear full fire-fighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

NFPA RATING: Health – 1 Flammability – 1 Reactivity – 0

### **SECTION 6 ACCIDENTAL RELEASE MEASURES**

SMALL SPILL: Absorb liquid on vermiculite, floor absorbent or other absorbent material.

LARGE SPILL: persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers. Per good environmental management practices, prevent run-off to sewers, streams and other bodies of water. Stop spill at the source. Cover sewer grates and dike the spill. Absorb spilled material on to absorbents. Shovel materials into container. Close container tightly and dispose of properly.

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### **SECTION 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.

**STORAGE:** Store in closed containers in a dry, well-ventilated area. Keep from freezing. Do not store near extreme heat, open flame, or sources of ignition. Store and handle in compliance with U.S.P. and FDS Good Manufacturing Practice.

### **SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

**EYE PROTECTION:** Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. Consult your safety representative.

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

**RESPIRATORY PROTECTIONS:** If workplace exposure limit (s) of product or any component is exceeded (see exposure guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

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

**EXPOSURE GUIDELINES:** Component  
Glycerine (56-81-5)  
OSHA PEL 5.000 mg/m<sup>3</sup> – TWA respirable fraction  
OSHA PEL 15.000 mg/m<sup>3</sup> – TWA total dust  
ACGIH TLV 10.000 mg/m<sup>3</sup> - TWA

### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

**BOILING POINT:** (for product) 554.0 F (290.0 C) @ 760 mmHg

**VAPOR PRESSURE:** (for product) <1.000 mmHg @ 68.00 F

**SPECIFIC VAPOR DENSITY:** 3.100 @ AIR=1

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### **SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES (Continued)**

SPECIFIC GRAVITY: 1.263 @ 68.00 F  
LIQUID DENSITY: 10.510 lbs/gal @ 68.00 F  
1.263 kg/l @ 20.00 C  
PERCENT VOLATILES: No data  
EVAPORATION RATE: Slower than Ethyl Ether  
APPEARANCE: No data  
STATE: Liquid  
PHYSICAL FORM: Homogeneous Solution  
COLOR: Orange  
ODOR: Characteristic  
pH: Neutral  
MOLECULAR WEIGHT: 9.21  
SOLUBILITY IN WATER: Soluble

### **SECTION 10 STABILITY AND REACTIVITY**

HAZARDOUS POLYMERIZATION: Product will not undergo hazardous polymerization.

HAZARDOUS DECOMPOSITION: May form: acrolein, aldehydes, carbon dioxide and carbon monoxide.

CHEMICAL STABILITY: Stable

INCOMPATIBILITY: Avoid contact with: strong oxidizing agents.

### **SECTION 11 TOXICOLOGICAL INFORMATION**

#### LD 50 AND LC 50 DATA

Glycerine (CAS# 56-81-5)  
Oral LD50 (rat): 12,600 mg/kg  
Dermal LD50 (rabbit): >10 g/kg  
Inhalation LC50 (rat, 1 hour): >570 mg/m<sup>3</sup>

### **SECTION 12 ECOLOGICAL INFORMATION**

ECOLOGICAL INFORMATION: No data

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### **SECTION 13 DISPOSAL CONSIDERATION**

WASTE MANAGEMENT INFORMATION: Dispose of in accordance with all applicable local, state and federal regulations.

### **SECTION 14 TRANSPORT INFORMATION**

DOT INFORMATION – 49 CFR 172.101: DOT Description: Non-Regulated by D.O.T.  
Container/Mode: 55 GAL Drum/Truck Package  
NOS Component: None

RG (Reportable Quantity) – 49 CFR 172.101: Not Applicable

OTHER TRANSPORTATION INFORMATION: The Transport information may vary with the container and mode of shipment.

### **SECTION 15 REGULATORY INFORMATION**

#### US FEDERAL REGULATIONS:

TSCA (Toxic Substances Control Act) Status: TSCA (United States) The Intentional ingredients of this product are listed.  
CERCLA RQ – 40 CFR 302.4 (a): None listed  
SARA 302 COMPONENTS – 40 CFR 355 APPENDIX A: None  
SECTION 311/312 HAZARD CLASS – 40 CFR 370.2:  
Immediate ( ) Delayed ( ) Fire ( ) Reactive ( ) Sudden Release of Pressure ( )  
SARA 313 COMPONENTS – 40 CFR 372.65: None  
OSHA PROCESS SAFETY MANAGEMENT 29 CFR 1910: None listed  
EPA ACCIDENTAL RELEASE PREVENTION 40 CFR 38: None listed

#### INTERNATIONAL REGULATIONS:

INVENTORY STATUS: DSL (CANADA) The intentional ingredients of this product are listed.  
EINECS (EUROPE) The intentional ingredients of this product are listed.  
TCCL (KOREA) The intentional ingredients of this product are listed.

#### STATE AND LOCAL REGULATIONS:

CALIFORNIA PROPOSITION 65: None  
PENNSYLVANIA RTK LABEL INFORMATION: 1,2,3-PROPANETRIOL

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**SECTION 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.