



## MATERIAL SAFETY DATA SHEET

### SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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- **Product name:** **Norkool SLH 50**
- **Product Description:** Glycol solution
- **Manufacturer:** Deep South Chemical, Inc.  
229 Millstone Road  
Broussard, LA 70518 (337) 837-9931
- **For Emergency: Call CHEMTREC 1-800-424-9300 Outside the U.S.A. (703)-527-3887**
- **Contact Person:** Glenn Ray
- **MSDS Revised:** January 1, 2014

### SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

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Hazardous components	CAS Number	%	PEL(OSHA)		TLV(ACGIH)		IDLH
			TWA	STEL	TWA	STEL	
Ethylene glycol	107-21-1	45-55	N/E	N/E	100mg/m <sup>3</sup> (Ceiling)	N/E	
Water	7732-18-5	45-55	N/E	N/E	N/E	N/E	

### SECTION 3. HAZARDS IDENTIFICATION, INCLUDING EMERGENCY OVERVIEW

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#### Effects of overexposure:

**Inhalation:** At room temperature exposure to vapors is minimal. Poor ventilation may cause vapor accumulation which can lead to headaches and nausea.

**Skin Contact:** Brief contact is essentially nonirritating. Prolonged contact might cause slight skin irritation with local redness.

**Eye Contact:** May cause slight irritation to eyes. Corneal injury is unlikely. Vapor may cause eye irritation experienced as mild discomfort and redness.

**Ingestion:** Moderate toxicity if swallowed. Swallowing large amounts may cause injury.

### SECTION 4. FIRST AID MEASURES

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**Eyes:** Move victim away from exposure and into fresh air. If irritation persists, seek medical attention. For direct exposure, flush with clean water for 15 minutes. Hold eyelids apart to ensure flushing of the entire eye surface.

**Inhalation:** Move victim away from source of exposure and into fresh air. If irritation persists, seek medical attention. If victim is not breathing, artificial respiration should be administered.

**Skin:** Remove contaminated clothes. Cleanse affected area thoroughly with soap and water. If irritation persists, seek medical attention. Wash contaminated clothing.

**Ingestion:** Do not induce vomiting. If victim is conscious give 1 cup of water or 3 to 4 ounces of hard liquor. Seek medical attention.

**Notes to Physician:** If several ounces of ethylene glycol have been ingested, early administration of ethanol may counter the toxic effect. Consider hemodialysis or peritoneal dialysis and thiamine 100 mg plus pyridoxine 50 mg intravenously every 6 hours. 4-Methyl pyrazole (Antizol) is an effective blocker of alcohol dehydrogenase and should be used in the treatment of ethylene glycol, di- or tri-ethylene glycol, ethylene glycol butyl ether, or methanol intoxication. .

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

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### **Fire fighting measures**

**Extinguishing Media:** Use dry chemical, water fog, or CO<sub>2</sub>. Do not use water jet(may spread fire). Alcohol resistant foams are preferred.

**Decomposition/Combustion Products:** Oxides of carbon and nitrogen.

**Special Fire Fighting Procedures:** Water spray to cool drums. Violent steam generation may occur upon application of direct water stream to hot liquid. Liquid mist of this product can burn.

### **Explosive Properties:**

**LEL:** N/E

**UEL:** N/E

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

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**Steps to be taken if material is released or spilled:** Use proper personal protective equipment. Stay upwind and away from spill. Keep all sources of ignition and hot metal surfaces away from spill. If spill is indoors, ventilate area. Keep out of drains, sewers or waterways. Use sand or other inert material to contain and soak up spill.

**Waste disposal method:** Dispose of according to local, state and federal regulations in an approved disposal facility or recycling facility.

## **SECTION 7. HANDLING AND STORAGE**

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**Storage:** Do not store in galvanized steel, use carbon or stainless steel. Store in a well-ventilated area. Keep container tightly closed when not in use. Store in cool, dry area. Keep away from sources of ignition.

**Handling:** Use proper personal protective equipment. Avoid contact with skin or eyes. Avoid breathing of vapors. Handle in well-ventilated workspace. When handling do not eat, drink, or smoke.

**Other precautions:** Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks or other sources of ignition.

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

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**Ventilation:** Keep work area well ventilated.

**Protective clothing:** Impermeable gloves and impervious clothing as appropriate.

**Eye protection:** Chemical goggles where splashing may occur.

**Respiratory Protection:** Use appropriate respiratory protection when handling or in case of insufficient ventilation.

**Special Protection:** Safety shower, eye bath, and washing facilities should be available.

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

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**Specific gravity @ 77°F(H<sub>2</sub>O = 1):** 1.079

**Flash Point (PMCC Method)(°F):** N/E

**Vapor density (Air = 1):** 1

**Solubility:** 100% in water

**Vapor pressure @ 68°F:** 13 mmHg

**Appearance:** Green liquid

**Odor:** Mild

**Boiling Point (°F):** 225

**Freezing Point (°F):** -36

**pH:** N/A

**Auto-ignition (°F):** N/E

**SECTION 10. STABILITY AND REACTIVITY**

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**Stability and Reactivity:** Stable in normal conditions.

**Incompatible Materials:** Strong oxidizers, strong acids, strong bases.

**Hazardous Decomposition Products:** Oxides of carbon.

**Hazardous Polymerization:** None described.

**SECTION 11. TOXICOLOGICAL INFORMATION**

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**Acute Toxicity Data:**

Rat Oral LD50 = 8,200mg/kg

Lethal Dose, Human adult, 3 ounces

Rabbit Dermal LD50= >2,000mg/kg

Rat Inhalation LC50, 7 hr, >3.95 mg/L

**SECTION 12. ECOLOGICAL INFORMATION**

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**Movement and Partitioning:** Bioconcentration potential is low (BCF less than 100). Potential for mobility in soil is very high (Koc between 0 and 50).

**Persistence and Degradability:** Material is readily biodegradable. Passes OECD tests for ready biodegradability.

**Aquatic Toxicity:** Practically non-toxic to aquatic organisms.

**SECTION 13. DISPOSAL CONSIDERATIONS**

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**Disposal:** If spilled, dispose according to local regulations. Recycle waste containers and clean out residues. Do not dump into sewers, on the ground, or any bodies of water.

**SECTION 14. TRANSPORT INFORMATION**

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**DOT Transport Information Non-Bulk:** Non-regulated

**DOT Transport Information Bulk:** Other regulated substances, Liquid, NOS (contains ethylene glycol, sodium nitrite), 9 PG III ID number: NA3082

**SECTION 15. REGULATORY INFORMATION**

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**Toxic Substances Control Act (TCSA):** All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

**CERCLA RQ-40 CFR 302.4(a)**

Component

Ethylene Glycol

CERCLA RQ

5000

**SARA 302 Components-40 CFR 355 Appendix A**

None

**Section 311/312 Hazard Class-40 CFR 370.2**

Immediate (X)

Delayed (X)

Fire ( )

Reactive ( )

Sudden Release of Pressure ( )

**SARA 313-40 CFR 372.65**

Component

Ethylene glycol

CAS Number

107-21-1

%

45-55



## **SECTION 16. OTHER INFORMATION**

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**NFPA RATING:** Health (1) Fire (1) Reactivity (0)

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N/D= No data; N/A = Not available; N/E= Not established