MATERIAL SAFETY DATA SHEET

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

- **Product name: DSC 350 CORROSION INHIBITOR**
- **Product Description:** A corrosion inhibitor.
- **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
- **Formula:** Mixture
- **MSDS Revised:** January 1, 2014

SECTION 2. COMPOSITION / INFORMATION ON INGREDIENTS

			PEL(OSHA)		TLV(ACGIH)	
Hazardous components	**CAS Number**	**%**	**TWA**	**STEL**	**TWA**	**STEL**
Oxyalkylated fatty amine	Trade Secret	3-10	Not Available			
Isopropanol	67-63-0	1-3	400ppm	500ppm	200ppm	400ppm
Ammonium hydroxide	1336-21-6	<1	50ppm	35mg/m^3	25ppm	35ppm
Methanol	67-56-1	<1	200ppm	250ppm	200ppm	250ppm
Hydrazine	302-01-2	<0.1	1ppm	NA	0.01ppm	NA
Benzyl chloride	100-44-7	<0.1	1ppm	NA	1ppm	NA

SECTION 3. HAZARDS IDENTIFICATION, INCLUDING EMERGENCY OVERVIEW

Effects of overexposure

Inhalation: May cause central nervous system effects if inhaled. May be irritating to lungs.
Skin Contact: May be severely irritating to skin. May cause burns on prolonged contact. May be toxic if absorbed through skin.
Eye Contact: May be severely irritating to eyes. Prolonged contact may cause burns.
Ingestion: If aspirated into the lungs, can result in chemical pneumonitis (irritation) and pulmonary edema (accumulation of fluids) and hemorrhaging (bleeding).

SECTION 4. FIRST AID MEASURES

Eyes: Move victim away from exposure and into fresh air. For direct exposure, immediately flush with clean water for 20-60 minutes. Hold eyelids apart to ensure flushing of the entire eye surface. Get medical attention.

Inhalation: Move victim away from source of exposure and into fresh air. Oxygen may be administered if breathing is difficult. 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: Get medical attention immediately. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never induce vomiting or give anything by mouth to a victim who is unconscious or having convulsions.

SECTION 5. FIRE FIGHTING MEASURES

Fire fighting measures

Extinguishing Media: Use foam, dry chemicals, or CO_2. Water may be used to cool containers.
Decomposition/Combustion Products: Oxides of carbon and nitrogen, hydrogen chloride fumes.
Special Fire Fighting Procedures: Flammable liquid. Vapors can form an ignitable or explosive mixture with the air at or above the flash point.

Explosive Properties:

LEL: N/A

UEL: N/A

SECTION 6. ACCIDENTAL RELEASE MEASURES

Steps to be taken if material is released or spilled: Use proper personal protective equipment. Keep personnel away and upwind of spill. Shut off all ignition sources; no flares, smoking or flames in hazard area. 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

Storage: 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. Avoid strong oxidizing agents.

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

Ventilation: Keep work area well ventilated.

Protective clothing: Impermeable gloves and impervious clothing.

Eye protection: Chemical safety goggles.

Respiratory Protection: Use full face respiratory protection when handling with insufficient ventilation.

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

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Specific gravity @ 60^{o}F(H_2O = 1): 1.004-1.016

Flash Point (TCC Method)(^{o}F): N/A

Vapor density (Air = 1): >1

Solubility: Soluble in water.

Vapor pressure @ 77^{o}F: Not applicable for solids

Evaporation Rate: Not applicable for solids

Appearance: Dark yellow liquid.

Odor: Mild.

pH: 10-11

Auto-ignition (^{o}F): N/A

SECTION 10. STABILITY AND REACTIVITY

Stability and Reactivity: Stable in normal conditions.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition Products: Not applicable.

Hazardous Polymerization: None described.

SECTION 11. TOXICOLOGICAL INFORMATION

Isopropanol:	ORAL (LD50): Acute: 5045 mg/kg [rat]. 3600 mg/kg [mouse], 4710 mg/kg [male rat]
	DERMAL (LD50): Acute: 12800 mg/kg [rabbit]
	VAPOR(LC50): Acute: 16970 ppm 4 hours [rat], 12000 ppm 8 hours [rat]
Ammonium hydroxide:	ORAL (LD50): Acute: 350 mg/kg [rat]
Methanol:	ORAL (LD50): Acute: 5628 mg/kg [rat]. 7300 mg/kg [mouse]
	DERMAL (LD50): Acute: 15800 mg/kg [rabbit]

	VAPOR(LC50): Acute: 64000 ppm 4 hours [rat], 50000 ppm 4 hours [mouse]
Hydrazine:	ORAL (LD50): Acute: 60 mg/kg [rat]. 59 mg/kg [mouse]
	DERMAL (LD50): Acute: 91 mg/kg [rabbit]
	VAPOR(LC50): Acute: 252 ppm 4 hours [mouse], 570 ppm 4 hours [rat]
Benzyl chloride:	ORAL (LD50): Acute: 1231 mg/kg [rat]. 1500 mg/kg [mouse]
	VAPOR(LC50): Acute: 150 mg/L 2 hours [rat], 80 mg/L 2 hours [mouse]

SECTION 12. ECOLOGICAL INFORMATION

No data available

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal: If spilled, dispose according to local regulations. Recycle waste containers and clean out residues.

SECTION 14. TRANSPORT INFORMATION

DOT Transport Information: Non-regulated
(DSC 350)

DOT Reportable Quantity: Ammonium hydroxide: 8,300 gallons of this product.
Methanol: 64,000 gallons of this product.
Hydrazine: 42 gallons of this product.

SECTION 15. REGULATORY INFORMATION

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	CERCLA RQ (lbs)
Methanol	5000
Ammonium hydroxide	1000
Hydrazine	1
Benzyl chloride	100

Section 311/312 Hazard Class-40 CFR 372.65

Immediate (X**)**
Delayed (X)
Fire ( )
Reactive ( )
Sudden Release of Pressure ( )

SARA 313-40 CFR 372.65

Component	CAS Number	%
Methanol	67-56-1	<1
Ammonium hydroxide	1336-21-6	<1
Hydrazine	302-01-2	<0.1
Benzyl chloride	100-44-7	<0.1

SECTION 16. OTHER INFORMATION

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

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