

# MATERIAL SAFETY DATA SHEET

This MSDS complies with OSHA'S Hazard Communication Standard 29 CFR 1910.1200 and OSHA Form 174

IDENTITY AND MANUFACTURER'S INFORMATION						
<b>NFPA Rating:</b> Health-2; Flammability-2; Reactivity-0; Special-COR			<b>HMIS Rating:</b> Health-2; Flammability-2; Reactivity-0; Personal Protection-B			
<b>DOT Hazard Classification:</b> Flammable Liquid, Corrosive, N.O.S.,3						
<b>FDA:</b> This product is approved under the following FDA (21 CFR) sections: Unknown.						
Manufacturer's Name: <b>AmSolv Manufacturing Company.</b> Address: 1803 Howard Road Waxahachie, TX 75165			Identity (trade name as used on label): <b>AmSolv AmSteam 6640</b>			
Date Prepared: 2005-07-05		Prepared By: STH		MSDS Number: WB6640 Revision - 1		
Information Calls: 1 (972) 938-1401 EMERGENCY RESPONSE NUMBER: 1 (972) 938-1410 (International)			<b>NOTICE: JUDGMENT BASED ON INDIRECT TEST DATA</b>			
SECTION 1 - MATERIAL IDENTIFICATION AND INFORMATION						
COMPONENTS-CHEMICAL NAMES AND COMMON NAMES (Hazardous Components 1% or greater; Carcinogens 0.1% or greater)		CAS Number	SARA III LIST	OSHA PEL (ppm)	ACGIH TLV (ppm)	Carcinogen Ref. Source **
DIETHYLETHANOLAMINE		100-37-8	No	10(TWA)	10	d
MORPHOLINE		110-91-8	No	20	20	d
CYCLOHEXYLAMINE		108-91-8	No	10	10	d
SECTION 2 - PHYSICAL/CHEMICAL CHARACTERISTICS						
<b>Boiling Point:</b> 100°C			<b>Specific Gravity</b> (H2O=1): 1.10			
<b>Vapor Pressure:</b> PSIG @ 70°F (Aerosols): N/A			<b>Vapor Pressure</b> (Non-Aerosols)(mm Hg and Temperature): N/D			
<b>Vapor Density</b> (Air = 1): N/D			<b>Evaporation Rate</b> (water = 1): 1.0			
<b>Solubility in Water:</b> complete			<b>Water Reactive:</b> No			
<b>Appearance and Odor:</b> Clear, brown liquid with bland odor						
SECTION 3 - FIRE AND EXPLOSION HAZARD DATA						
<b>FLAMMABILITY</b> as per USA FLAME PROJECTION TEST (aerosols) N/A		<b>Auto Ignition Temperature</b> N/A		<b>Flammability Limits in Air by % in Volume:</b> % LEL: N/A % UEL: N/A		
<b>FLASH POINT AND METHOD USED</b> (non-aerosols): 134°F (TCC)			<b>EXTINGUISHER MEDIA:</b> Water fog, CO2, dry chemical.			
<b>SPECIAL FIRE FIGHTING PROCEDURES:</b> Do not enter confined fire space without full bunker gear including a positive pressure NIOSH approved self-contained breathing apparatus. Cool fire-exposed containers with water.						
<b>Unusual Fire &amp; Explosion Hazards:</b> Containers exposed to intense heat may rupture from vapor pressure buildup. Cool containers with large quantities of water						
SECTION 4 - REACTIVITY HAZARD DATA						
<b>STABILITY</b> <input checked="" type="checkbox"/> STABLE <input type="checkbox"/> UNSTABLE			<b>HAZARDOUS POLYMERIZATION</b> <input type="checkbox"/> WILL <input checked="" type="checkbox"/> WILL NOT OCCUR			
<b>Incompatibility</b> (Mat. to avoid): Mat. to avoid): Strong acids, strong oxidizers, copper, copper alloys, zinc, galvanized iron			<b>Conditions to Avoid:</b> None			
<b>Hazardous Decomposition Products:</b> Carbon monoxide, carbon dioxide, nitrogen oxides.						
SECTION 5 - HEALTH HAZARD DATA						
<b>PRIMARY ROUTES OF ENTRY:</b> <input type="checkbox"/> INHALATION <input checked="" type="checkbox"/> INGESTION <input checked="" type="checkbox"/> SKIN ABSORPTION <input checked="" type="checkbox"/> EYE <input type="checkbox"/> NOT HAZARDOUS						
<b>ACUTE EFFECTS:</b> Corrosive action on all body tissues.						
<b>Inhalation:</b> Inhalation of spray or mist is highly irritating to respiratory tract and mucous membranes. Prolonged contact may result in tissue damage and/or destruction.						
<b>Eye Contact:</b> Highly irritating. May result in tissue damage and/or destruction.			<b>Skin Contact:</b> Highly irritating. Prolonged contact may result in tissue damage and/or destruction			
<b>Ingestion:</b> Highly irritating. Prolonged contact may result in tissue damage and/or destruction.						
<b>CHRONIC EFFECTS:</b> Repeated tissue damage may result in accumulation of scar tissue.						
<b>Medical Conditions Generally Aggravated by Exposure:</b> Any irritated tissue present may be further irritated by exposure						
EMERGENCY FIRST AID PROCEDURES						
<b>Eye Contact:</b> Flush with water for 15 minutes. Get medical attention.						
<b>Skin Contact:</b> Wash and rinse thoroughly with water. If irritation persists or ulceration develops, get medical attention.						
<b>Inhalation:</b> Remove to fresh air. If irritation persists or other respiratory symptoms develop, get medical attention..						
<b>Ingestion:</b> <b>DO NOT INDUCE VOMITING.</b> Drink 3 to 4 glasses of water. Get immediate medical attention.						
SECTION 6 - CONTROL AND PROTECTIVE MEASURES						
<b>Respiratory Protection (specify type):</b> None required.						
<b>Protective Gloves:</b> Rubber.			<b>Eye Protection:</b> Chemical goggles or face shield.			
<b>Ventilation Requirements:</b> Normal ventilation is adequate.						
<b>Other Protective Clothing &amp; Equipment:</b> Rubber boots and apron, if desired. Eyewash stations and safety showers.						
<b>Hygienic Work Practices:</b> Do not eat or drink in work areas. Wash hands after handling..						
SECTION 7 - PRECAUTIONS FOR SAFE HANDLING AND USE						
<b>Steps To Be Taken If Material Is Spilled Or Released:</b> DO NOT drain into sewers or surface waters. Soak up in absorbent material and place in properly labeled, sealed, non-leaking containers for proper authorized hazardous waste disposal.						
<b>Waste Disposal Methods:</b> Dispose of in accordance with all local, state and federal regulations.						
<b>Precautions To Be Taken in Handling &amp; Storage:</b> Store in original shipping container. Keep container sealed when not in use. Protect from freezing.						
<b>Other Precautions &amp;/or Special Hazards:</b> <b>KEEP OUT OF REACH OF CHILDREN.</b> Read and follow label directions.						

*We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind.*

\*\* Chemical Listed as Carcinogen or Potential Carcinogen. [a] NTP [b] IARC Monograph [c] OSHA [d] Not Listed [e] Animal Data Only