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MATERIAL SAFETY DATA SHEET

DATE PREPARED: 7/21/07 PK

1. CHEMICAL PRODUCT IDENTIFICATION **CORRODINE 930**

General Use: STEAM AND RETURN LINE TREATMENT

EMERGENCY TELEPHONE NUMBER:
CHEMTREC 800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS

OSHA HAZARDOUS COMPONENTS (29 CFR 1910.1200) EXPOSURE LIMITS 8 HRS. TWA (PPM)

Component	Hazard	CAS#	OSHA STEL	OSHA PEL	ACGIH TLV
CYCLOHEXYLAMINE	CORROSIVE	108-91-8	10 PPM TWA	NONE LISTED	10 PPM
DIETHYLAMINOETHANOL	CORROSIVE	100-37-8	N/E	10 MG/M ³	10 PPM
MORPHOLINE	CORROSIVE	110-91-8	N/E	20 MG/M ³	20 PPM

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: THIS CORROSIVE SOLUTION IS HARMFUL IF ABSORBED THROUGH THE SKIN AND MAY CAUSE BURNS TO THE SKIN, EYES AND RESPIRATORY TRACT.

POTENTIAL HEALTH EFFECTS

INHALATION: HARMFUL IF INHALED. MAY CAUSE CYANOSIS, CONVULSIONS, METHEMOGLOBINEMIA AND DEATH. EYE CONTACT: CONTACT WITH EYES MAY CAUSE SEVERE IRRITATION AND POSSIBLE BURNS.

INGESTION: MAY CAUSE IRRITATION TO THE DIGESTIVE TRACT. CHRONIC: NONE

SKIN CONTACT: HARMFUL IF ABSORBED THROUGH THE SKIN. MAY CAUSE SEVERE SKIN IRRITATION OR BURNS. TARGET ORGANS: POINT OF CONTACT.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: N.D.

4. FIRST AID MEASURES

INHALATION: REMOVE TO FRESH AIR. GET MEDICAL ATTENTION. SKIN CONTACT: WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION.

EYE CONTACT: FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION. INGESTION: SEEK MEDICAL ATTENTION IMMEDIATELY. DRINK 2-4 CUPS OF WATER.

NOTES TO PHYSICIAN: NONE

5. FIRE FIGHTING MEASURES

Flashpoint (°F) and Method: 140 (CLOSED CUP) Autoignition Temperature (°F): N/A

FLAMMABLE LIMITS: Ingredient: N.D. UEL: N.D. LEL: N.D.

GENERAL HAZARD: THIS MATERIAL IS CORROSIVE. VAPORS ARE HARMFUL. FIRE FIGHTING EQUIPMENT: WEAR SELF CONTAINED BREATHING APPARATUS.

FIRE FIGHTING INSTRUCTIONS:

EXTINGUISHING MEDIA:

Foam: YES	Alcohol Foam: YES	CO2: YES
Dry Chemical: YES	Water: YES	Other: NONE

HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN.

NATIONAL FIRE PROTECTION ASSOCIATION HAZARD RATINGS:

0 – Insignificant	1 – Slight	2 – Moderate	3 – High
4 – Extreme	U – Unknown	* – No Information	

Health :3
Flammability :2
Reactivity :0

SPECIAL INFORMATION: CORROSIVE FLAMMABLE

N/A: Not Applicable
N/D: Not Determined
N/E: Not Established
* Where no corresponding data was contained in manufacturer's MSDS, additional research is required and is available upon request.



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6. ACCIDENTAL RELEASE MEASURES

LAND SPILL: CONTAIN AND ABSORB, THEN DISPOSE OF IN ACCORDANCE TO LOCAL, STATE AND FEDERAL GUIDELINES.

WATER SPILL: PREVENT ADDITIONAL DISCHARGE OF MATERIAL. THIS MATERIAL IS WATER SOLUBLE AND MAY NOT BE RECOVERABLE.

7. HANDLING AND STORAGE

STORAGE TEMPERATURE (°F): ROOM TEMPERATURE STORAGE PRESSURE: ATMOSPHERIC

GENERAL: STORE IN A COOL, DRY AREA. KEEP CONTAINER CLOSED, KEEP FROM FREEZING AND WASH AFTER HANDLING.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

ENGINEERING CONTROLS: PROPER AIR HANDLING EQUIPMENT.

PERSONAL PROTECTION: GOGGLES

RESPIRATOR: ORGANIC VAPOR CARTRIDGE MASK. PROTECTIVE CLOTHING: RUBBER GLOVES.

9. PHYSICAL AND CHEMICAL PROPERTIES

Vapor Pressure (mmHg)	:	N.D.	pH 1% Solution	:	10.5 11.5
Specific Gravity (Water=1)	:	0.98 1.02	Odor	:	AMINE
Solubility in Water	:	COMPLETE	Appearance	:	COLORLESS
Freezing Point	:	N.D.	Physical State	:	LIQUID
Evaporation Rate (BuAc=1)	:	N.D.	Vapor Density (Air=1)	:	N.D.
Viscosity	:	N.D.	Percent Volatile by Vol	:	N.D.
Boiling Point (°F)	:	N.D.			

10. STABILITY AND REACTIVITY

GENERAL: STABLE

INCOMPATIBLE MATERIALS AND CONDITIONS TO AVOID: STRONG OXIDIZING AGENTS, STRONG ACIDS AND NITRITES.

HAZARDOUS DECOMPOSITION PRODUCTS: NONE

11. TOXICOLOGICAL INFORMATION

CARCINOGENIC INFORMATION: N/E

CAS#: NONE % WT.: N/A

IARC: NOT LISTED NTP: NOT LISTED OSHA: NOT LISTED ACGIH: NOT LISTED OTHER: NOT LISTED

12. ECOLOGICAL INFORMATION: N.D.

13. DISPOSAL CONSIDERATION

RCRA Hazard Class: NOT CONSIDERED A RCRA HAZARDOUS WASTE.

14. TRANSPORT INFORMATION:

DOT (Department of Transportation)
 Proper Shipping Name: COMPOUNDS CLEANING LIQUID, 8, NA1760, PG III (CONTAINS MORPHOLINE).
 Hazard Class: CORROSIVE, 8 Identification Number: NA1760

15. REGULATORY INFORMATION

TSCA (Toxic Substance Control Act): ALL COMPONENTS ARE LISTED ON THE TSCA INVENTORY.

CERCLA (Comprehensive Environmental Response Compensation, and Liability Act) THIS PRODUCT CONTAINS CYCLOHEXYLAMINE. IF SPILLED, THIS PRODUCT IS SUBJECT TO REPORTING UNDER CERCLA FOR AMOUNTS OVER 666,000 POUNDS

SARA TITLE III (Superfund Amendments and Reauthorization Act)
 311/312 Hazard Categories: IMMEDIATE HEALTH HAZARD
 313 Reportable Ingredients: THIS PRODUCT DOES NOT CONTAIN ANY SECTION 313 REPORTABLE INGREDIENTS.

16. OTHER INFORMATION

REFERENCE: PRODUCT FILE #1282

THE INFORMATION RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL. IF USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY ONESELF AS TO THE SUITABILITY AND COMPLETENESS OF THIS INFORMATION FOR HIS OWN PARTICULAR USE.

N/A: Not Applicable
 N/D: Not Determined
 N/E: Not Established
 * Where no corresponding data was contained in manufacturer's MSDS, additional research is required and is available upon request.