

## SAFETY DATA SHEET

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EMERGENCY TELEPHONE NUMBER  
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### 1. PRODUCT IDENTIFICATION

PRODUCT NAME: CR-275  
CHEMICAL NAMES/SYNONYMS: MORPHOLINE; CYCLOHEXYLAMINE  
PRODUCT USE: CONDENSATE CORROSION TREATMENT

### 2. HAZARDS IDENTIFICATION

#### **GHS CLASSIFICATION**

R20/21/22, HARMFUL BY INHALATION, IN CONTACT WITH SKIN AND IF SWALLOWED.  
R34 CAUSES BURNS

#### **LABEL ELEMENTS**

SYMBOL: C

HMIS Ratings:	Health	Flammability	Reactivity	Personal Protection
	3	0	1	G
NFPA Ratings:	2	0	1	



### 3. COMPOSITION INFORMATION ON INGREDIENTS

COMPONENTS	CAS#	WEIGHT %
CYCLOHEXYLAMINE C <sub>6</sub> H <sub>13</sub> N	108-91-8	10-15
MORPHOLINE	110-91-8	10-15

### 4. FIRST AID MEASURES

THRESHOLD LIMIT VALUE:.....10 PPM

EFFECT OF OVEREXPOSURE:.....EYES: MAY CAUSE CHEMICAL BURN IN EYE. DAMAGE IS IRREVERSIBLE.

SKIN: MODERATELY TOXIC. MAY CAUSE SEVERE SKIN INJURY AND SENSITIZATION.

INHALATION: INHALATION OF HIGH CONCENTRATIONS OF VAPOR MAY PRODUCE IRRITATION OF RESPIRATORY TRACT AND LUNGS. BREATHING VAPORS MAY CAUSE SYSTEMATIC ILLNESS AS INDICATED BY NAUSEA, VOMITING, AND HEADACHE.

EMERGENCY FIRST AID PROCEDURES:

EYES: FLUSH WITH WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

SKIN: FLUSH AFFECTED AREA WITH COLD WATER FOR AT LEAST 15 MINUTES.

INGESTION: OBTAIN MEDICAL ATTENTION IMMEDIATELY.

INHALATION: REMOVE TO FRESH AIR. OBTAIN MEDICAL ASSISTANCE IMMEDIATELY.

## **5. FIRE FIGHTING MEASURES**

FLASH POINT (method):.....204 DEGREES F TOC  
EXTINGUISHING MEDIA:.....CARBON DIOXIDE OR DRY CHEMICAL FOR  
SMALL FIRES. POLYMER FOAM FOR LARGE FIRES.  
SPECIAL FIRE FIGHTING PROCEDURES:...COVER ALL SPILLS WITH FOAM TO  
MINIMIZE VAPOR RELEASE. WEAR SELF CONTAINED BREATHING APPARATUS.  
UNUSUAL FIRE & EXPLOSION HAZARDS:...CLOSED CONTAINERS MAY RUPTURE DUE TO  
PRESSURE BUILD-UP WHEN EXPOSED TO EXTREME HEAT.

## **6. ACCIDENTAL RELEASE MEASURES**

STEPS TO BE TAKEN IN EVENT MATERIAL IS RELEASED OR SPILLED: SOAK UP WITH ABSORBENT  
MATERIAL AND SCOOP INTO DRUMS. FLUSH RESIDUE WITH PLENTY OF WATER. WASH AREA WITH  
SOAP AND WATER. AVOID WASH WATER ENTERING NATURAL OR PUBLIC WATER SUPPLIES.

## **7. HANDLING AND STORAGE**

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: AVOID SKIN AND EYE CONTACT. STORE IN  
CLOSED, LEAK PROOF CONTAINERS, SEGREGATED FROM ACIDS AND OXIDIZERS.  
OTHER PRECAUTIONS: DO NOT TAKE INTERNALLY

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

SPECIFIC PERSONAL PROTECTIVE EQUIPMENT:

EYES:.....USE CHEMICAL GOGGLES. EYE WASH FOUNTAIN SHOULD BE  
LOCATED IN IMMEDIATE WORK AREA.

SKIN:.....USE IMPERVIOUS GLOVES.

RESPIRATORY:.....IF RESPIRATORY IRRITATION IS EXPERIENCED, USE AN  
APPROVED AIR-PURIFYING RESPIRATOR. IN MISTY ATMOSPHERES, USE AN  
APPROVED MIST RESPIRATOR.

OTHER:.....FACE MASK, IMPERVIOUS APRON, EYE BATH AND SAFETY  
SHOWER.

VENTILATION REQUIREMENTS: GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT FOR MOST  
CONDITIONS.

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

APPEARANCE:.....COLORLESS LIQUID

ODOR:.....AMMONICAL

SPECIFIC GRAVITY:.....0.97

PH:.....10.8 (APPROX.)

SOLUBILITY IN WATER:.....COMPLETE

BOILING POINT:.....224 DEGREES F

## **10. STABILITY AND REACTIVITY**

STABILITY: STABLE UNDER NORMAL STORAGE AND USE CONDITIONS.

INCOMPATIBILITY: OXIDIZING MATERIALS, HYDROGEN IS FORMED IN THE PRESENCE OF ALUMINUM.  
STRONG ACIDS

HAZARDOUS DECOMPOSITION PRODUCTS: AMMONIA, NITROGEN OXIDES UNDER FIRE CONDITIONS.

THERMAL DECOMPOSITION MAY PRODUCE CO AND/OR CO2.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

**11. TOXICOLOGICAL INFORMATION**

LD50/ORAL/RAT= APPROX.450 MG/KG ACUTE DERMAL  
LD50/DERMAL/RABBIT= APPROX. 595 MG/KG  
EYE IRRITATION: CORROSIVE  
SKIN IRRITATION: CORROSIVE  
CARCINOGENIC EFFECTS: NONE

**12. ECOLOGICAL INFORMATION**

TOXICITY TO FISH: LC50=54; NO EFFECT LEVEL=8MG/L DAPHNIA MAGNA 48HR  
TOXICITY TO BACTERIA: NOT REQUIRED, READILY BIODEGRADABLE.

**13. DISPOSAL INFORMATION**

WASTE DISPOSAL METHODS: DISPOSE OF IN ACCORDANCE WITH LOCAL REGULATIONS.  
CONTAMINATED PACKAGING: IN ACCORDANCE WITH LOCAL AND NATIONAL REGULATIONS. EMPTY  
CONTAINERS SHOULD BE TAKEN FOR LOCAL RECYCLING OR WASTE DISPOSAL.

**14. TRANSPORT INFORMATION**

DOT SHIPPING NAME: NOT REGULATED  
DOT HAZARD CLASS: CORROSIVE MATERIAL

PROPER SHIPPING NAME: N/A

**15. REGULATORY INFORMATION**

TOXIC SUBSTANCES CONTROL ACT (TSCA)  
TSCA INVENTORY STATUS: ALL COMPONENTS ARE LISTED ON TSCA INVENTORY OF CHEMICAL  
SUBSTANCES.

OTHER TSCA ISSUES: NONE

**16. OTHER INFORMATION**

INFORMATION AND DATA HEREIN ARE BELIEVED TO BE ACCURATE AND COMPILED FROM RELIABLE  
SOURCES. BUYER ASSUMES ALL RISK OF USE, STORAGE AND HANDLING TO COMPLY WITH FEDERAL,  
STATE AND LOCAL REGULATIONS. CHEMTEC PRODUCTS COMPANY MAKES NO WARRANTY, EXPRESS  
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