

MATERIAL SAFETY DATA SHEET

MSDS NUMBER: 200  
 PART NUMBER: C-200-W  
 PRODUCT NAME: ENVIRO-CHEM C-200-W Corrosion Inhibitor  
 CAS NUMBER: - -0  
 CHEMICAL NAME: OxyAlkylated Tallow Amine

SECTION I

MANUFACTURER: Enviro-Chem, Inc.

ADDRESS: P.O. Box 668  
 Hobbs, NM 88241

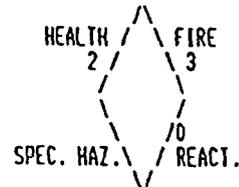
EMERGENCY TELEPHONE NUMBER: (505)393-1917

INFORMATION TELEPHONE NUMBER: (505)397-1917

DATE PREPARED: 02/15/96

HMIS RATINGS:

HEALTH: 2  
 FIRE: 3  
 REACTIVITY: 0  
 PERSONAL PROTECTION: H



SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

CAS NUMBER	HAZARDOUS COMPONENT	SUB- SARA				OSHA PEL	ACGIH TLV	OTHER LIMITS RECOMMENDED PERCENT
		NTP	IARC	PART/2	313			
67-56-1	Methanol, or Methyl alcohol	?	?	?	Y	200 ppm	NI	.9 - 1
67-63-0	Isopropanol or Isopropyl alcohol	?	?	?	?	400 ppm	400 ppm	.02 - .05
64-19-7	Acetic acid	?	?	?	?	10 ppm	10 ppm	.02 - .05

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT	>200 F.	SPECIFIC GRAVITY (H2O = 1)	0.98139
VAPOR PRESSURE (mm Hg.)	NI	MELTING POINT	NI
VAPOR DENSITY (AIR = 1)	NI	EVAPORATION RATE (Butyl Acetate = 1)	NI

SOLUBILITY IN WATER: COMPLETE

APPEARANCE AND ODOR: Pale Amber liquid, slight vinegar odor

OTHER INFORMATION:

Viscosity Units = NI      pH = 6 to 7  
 Freezing Point = NI      Dry Point = NI

Density (Lb./Gal.) = 8.165

DANGER

Physical Hazards:-  
 Flammable Liquid

Generic Name:- OxyAlkylated Tallow Amine

UN/NA Number:- UN 1993

DOT Response Number:- 27

DOT Proper Shipping Name:- Flammable Liquid, N.O.S.  
 ( Contains Isopropanol, Methanol )

DOT Hazard Class:- 3

DOT Packing Group:- III

DOT/CERCLA RQ:- N/App.

This product contains chemicals which are subject to the reporting requirements of Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986. The corresponding CAS numbers and percent by weight are listed above.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT: 53 F.

FLAMMABLE LIMITS: LEL: NI

UEL: NI

EXTINGUISHING MEDIA: Dry chemical, Co2, Alcohol Foam, Sand/Earth, Water Spray, Water Fog.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA (Continued)

SPECIAL FIRE FIGHTING PROCEDURES:

Do not enter fire area without proper protection - see Section V - decomposition products possible.

Fight fire from safe distance / protected location.

Heat may build pressure / rupture closed containers, spreading fire, increasing risk of burns / injuries.

Use water spray / fog for cooling.

Use water spray to disperse vapors.

Notify authorities if liquid enters sewer / public waters.

UNUSUAL FIRE FIGHTING PROCEDURES:

Releases vapors at normal ambient temperatures. When mixed with air and exposed to ignition source, vapors can burn in open or explode if confined. Vapors may be heavier than air, may travel long distances along ground before igniting / flashing back to vapor source.

Vapors may settle and concentrate in low areas.

SECTION V - REACTIVITY DATA

STABILITY: Stable under normal conditions.

INCOMPATIBILITY (MATERIALS TO AVOID):

Strong Oxidizing Agents, such as Hydrogen Peroxide, Bromine, And Chromic Acid.

Strong Alkalies.

Strong Acids.

Heat, sparks, open flames, and elevated temperatures.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Incomplete combustion may release poisonous Carbon Monoxide, Carbon Dioxide and oxides and/or compounds of Nitrogen.

HAZARDOUS POLYMERIZATION:

Not expected to occur.

SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY:

Inhalation:-

Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.

Eye Contact:-

Although no appropriate human or animal health effects data are known to exist, this material is expected to cause severe eye irritation.

Skin Absorption:-

Although no appropriate human or animal health effects data are known to exist, this material is expected to absorb through the skin.

Skin Irritation:-

Although no appropriate human or animal health effects data are known to exist, this material is expected to be a skin irritant.

Ingestion:-

Although no appropriate human or animal health effects data are known to exist, this material is expected to be an ingestion hazard.

HEALTH HAZARDS (ACUTE AND CHRONIC):

Acute Health Effects:- (Short Term)

Irritant to Eyes.

Irritant to Skin.

Moderate Ingestion Hazard.

Moderate Inhalation Hazard.

Moderate Skin Absorption Hazard.

SIGNS AND SYMPTOMS OF EXPOSURE:

Skin Contact:-

Irritation or redness of the skin may develop after exposure.

Eye Contact:-

Severe eye irritation may develop on exposure.

Ingestion:-

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SECTION VI - HEALTH HAZARD DATA (Continued)

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Severe irritation and burning of the linings of the mouth, throat, and stomach may develop.

Inhalation:-

Coughing and shortness of breath may result. More severe symptoms are also possible.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

This material or its emissions may affect the central nervous system and/or aggravate pre-existing disorders. Prolonged observation may be indicated.

EMERGENCY AND FIRST AID PROCEDURES:

Inhalation:-

If overcome by exposure, remove victim to fresh air immediately. Give oxygen or artificial respiration as needed. Obtain emergency medical attention. Prompt action is essential.

Eye Contact:-

In case of eye contact, immediately rinse with clean water for 20 to 30 minutes. Retract eyelids often. Obtain emergency medical attention.

Skin Contact:-

Immediately remove contaminated clothing. Wash skin with mild soap and water. Flush with lukewarm water for 15 minutes. If sticky, use waterless cleaner first. Obtain emergency medical attention.

Ingestion:-

If large quantity swallowed, give lukewarm water (pint) if victim is completely conscious and alert. Do not induce vomiting, as risk of damage to lungs exceeds poisoning risk. Obtain emergency medical attention immediately.

Emergency Medical Treatment Procedures:-

Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Continue to rinse eyes with clean water for 20 to 30 minutes, retracting eyelids often. Contact ophthalmologist immediately.

Treat burns or allergic reactions conventionally after decontamination. Do not induce vomiting.

OTHER HEALTH WARNINGS:

The toxicological and carcinogenic properties of this material have not been fully investigated. Handle accordingly, avoiding contact.

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SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

Equip responders with proper protection (see Section VIII).

SMALL SPILL:-

Absorb liquid on paper, vermiculite, floor absorbent, or other absorbent material, and transfer to hood.

LARGE SPILL:-

Provide adequate ventilation. Eliminate all ignition sources (flares, flames (including pilot lights) and electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Use water spray to disperse vapors and protect involved personnel and to reduce flammability. Stop spill at source, dike area ahead of spill to prevent spreading, pump liquid into salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and placed in covered containers, if possible, then labeled for disposal.

Prevent run-off into sewers, streams, or other bodies of water. If run-off occurs, notify proper authorities, as required, that a spill has occurred.

WASTE DISPOSAL METHOD:

Comply with Federal / State / Local regulations for disposal. Contact State and Federal regulators to determine whether the material should be classified as a hazardous waste or industrial waste and handled accordingly. Use licensed transporter and disposal facility.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

For transport, handling, and storage, use polyethylene, plastic, lined steel, or stainless steel. Store in tightly closed containers in cool, dry, isolated and well ventilated area away from heat, sources of ignition and incompatible materials.

Use good personal hygiene practices.

Containers of this material may be hazardous when emptied, since emptied containers retain product residues (vapor, liquid, and/or solids), all hazard precautions given in the data sheet must be observed.

Store drums with bungs closed in upright position.

OTHER PRECAUTIONS:

Wash thoroughly after handling.

Do not get in eyes, on skin or clothing.

Do not breathe dust, vapor, mist, or gas.

Keep container closed when not in use.

Empty container may contain hazardous residues.

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SECTION VIII - CONTROL MEASURES

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**VENTILATION REQUIREMENTS:**

Either local exhaust or general room ventilation is usually required.

**PERSONAL PROTECTIVE EQUIPMENT:**

**Respiratory Protection:-**

If exposure can exceed the PEL/TLV, use only NIOSH/MSHA approved air-purifying or supplied air respirator operated in a positive pressure mode per the NIOSH/OSHA 1981 Occupational Health Guidelines for chemical hazard.

**Eye Protection:-**

Eye protection, including both chemical splash goggles and face shield when possibility exists for eye contact due to spraying liquid or airborne particles. Contact lenses must not be worn.

**Skin Protection:-**

Impervious protective suit with gloves, boots, and full head and face protection must be worn. The equipment must be cleaned thoroughly after each use.

**Other Hygienic Practices:-**

Use good personal hygiene practices. Wash hands before eating, drinking, smoking or using toilet facilities. Shower after work using plenty of soap and water.

**Other Work Practices:-**

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Promptly remove soiled clothing / wash thoroughly before reuse.

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SECTION IX - ADDITIONAL INFORMATION

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**ADDITIONAL MANUFACTURER WARNINGS:**

For Industrial Use Only.  
Keep out of reach of children.  
Failure to use caution may cause serious injury or illness.  
Never siphon by mouth.

**OTHER PRECAUTIONS AND COMMENTS:**

**Disclaimers:-**

Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this MSDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness or results to be obtained from the use thereof.

The conditions or methods of handling, storage, use, and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of, or in any way connected with the handling, storage, use, or disposal of the product.

This MSDS was prepared, and is to be used, only for this product. If the product is used as a component in another product, this MSDS information may not be applicable.

This MSDS has been prepared in accordance with the requirements of the OSHA Hazard Communication Standard (29 CFR 1200).

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# MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,  
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

## SECTION I

MANUFACTURER'S NAME LEPO CUSTOM MFG. INC.		EMERGENCY TELEPHONE NO. 915/689-8849
ADDRESS (Number, Street, City, State, and ZIP Code) 5505 West INDUSTRIAL MIDLAND, TEXAS 79703		
CHEMICAL NAME AND SYNONYMS STC		TRADE NAME AND SYNONYMS
CHEMICAL FAMILY Quaternized amine	FORMULA Proprietary	

## SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
NONE					

## SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	ND	SPECIFIC GRAVITY (H <sub>2</sub> O=1)	.99
VAPOR PRESSURE (mm Hg.)	ND	PERCENT VOLATILE BY VOLUME (%)	22
VAPOR DENSITY (AIR=1)	ND	EVAPORATION RATE (_____ =1)	NA
SOLUBILITY IN WATER	Complete		
APPEARANCE AND ODOR PALE YELLOW, MILD ODOR			

## SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) TCC 76°F	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA CO <sub>2</sub> , DRY, FOAM, WATER			
SPECIAL FIRE FIGHTING PROCEDURES Water spray may be used to cool fire exposed containers.			
UNUSUAL FIRE AND EXPLOSION HAZARDS None			

SECTION V - HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE	None Established
EFFECTS OF OVEREXPOSURE	Eyes and Skin: Irritation, itching, swelling, chemical burns
	Inhalation: Nausea, dizziness, vomiting
EMERGENCY AND FIRST AID PROCEDURES	Eyes and Skin: Flush with water, if conditions persists, see a physician
	Inhalation: Remove to fresh air
	Swallowed: Give water or milk to dilute, Get medical attention

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	XXXX	Sources of ignition
INCOMPATIBILITY (Materials to avoid)	Chromates, oxidizers, caustic		
HAZARDOUS DECOMPOSITION PRODUCTS	Carbon monoxide, CO <sub>2</sub> , Oxides of nitrogen		
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	XXX	

SECTION VII - SPILL OR LEAK PROCEDURES	
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED	Eliminate sources of ignition, Absorb or scrape up and dispose in an approved landfill i/a/w state & federal spill and water quality regulations
WASTE DISPOSAL METHOD	In approved landfill i/a/w/ governmental rules

SECTION VIII - SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (Specify type) None needed for routine use			
VENTILATION	LOCAL EXHAUST	Recommended	SPECIAL
	MECHANICAL (General)		OTHER
PROTECTIVE GLOVES	neoprene or latex	EYE PROTECTION	safety goggles
OTHER PROTECTIVE EQUIPMENT	water supply, showers		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	Avoid contact, keep away from fire or sparks.
OTHER PRECAUTIONS	D.O.T CLASS: Flammable Liquid, N.O.S.
UN 1993	