



MATERIAL SAFETY DATA SHEET

Section 1. Chemical Product and Company Identification

Product Name: ChemTreat BL1549
Product Use: Steam Line Treatment

Supplier's Name: ChemTreat, Inc.

Emergency Telephone Number: (800) 424–9300 (Toll Free) (703) 527–3887

Address (Corporate Headquarters): 5640 COX ROAD Glen Allen, VA 23060

Telephone Number for Information: (800) 648–4579 **Date of MSDS:** August 15, 2012

Section 2. Hazard(s) Identification

Signal Word: DANGER!

Hazard Statement(s): Causes severe skin burns and eye damage.

Causes serious eye damage. Harmful in contact with skin.

Harmful if inhaled. Harmful if swallowed.

Precautionary Statement(s): Wear protective gloves/clothing and eye/face protection. Do not

breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Use

only outdoors or in a well-ventilated area.

Section 3. Composition/Hazardous Ingredients

Component	CAS Registry #	Wt.%
2-diethylaminoethanol	100-37-8	10 – 30
Morpholine	110-91-8	7 – 13
Cyclohexylamine	108-91-8	7 – 13





Section 4. First Aid Measures

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable

for breathing. Immediately call a poison center or doctor/physician.

Eves: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing. Immediately call

a poison center or doctor/physician.

Skin: Immediately remove/take off all contaminated clothing. Rinse skin with

water/shower. Wash contaminated clothing before re-use. Immediately

call a poison center or doctor/physician.

Ingestion: DO NOT INDUCE VOMITING. Rinse mouth. Call a POISON

CENTER or doctor/physician.

Notes to Physician: N/A

Additional First Aid Remarks: N/A

Section 5. Fire Fighting Measures

Flammability of the Product: Negative results obtained in sustained combustion test.

Suitable Extinguishing Media: Use extinguishing media suitable to surrounding fire.

Specific Hazards Arising from

the Chemical:

Product may emit toxic gases or fumes under fire conditions.

Protective Equipment: If product is involved in a fire, wear full protective clothing

including a positive-pressure, NIOSH approved, self-contained

breathing apparatus.

Section 6. Accidental Release Measures

Personal Precautions: Use appropriate Personal Protective Equipment (PPE).

Environmental Precautions: Avoid dispersal of spilled material and runoff and contact with soil,

waterways, drains, and sewers.

Methods for Cleaning up: Contain and recover liquid when possible. Flush spill area with water

spray.

Other Statements: If RQ (Reportable Quantity) is exceeded, report to National

Spill Response Office at 1–800–424–8802.





Section 7. Handling and Storage

Handling: Wear appropriate Personal Protective Equipment (PPE) when

handling this product. Do not get in eyes, or on skin and clothing. Wash thoroughly after handling. Do not ingest. Avoid breathing

vapors, mist or dust.

Store away from incompatible materials (see Section 10). Store at

ambient temperatures. Keep container securely closed when not in use.

Label precautions also apply to empty container. Recondition or

dispose of empty containers in accordance with government regulations.

For Industrial use only.

Protect from heat and sources of ignition.

Section 8. Exposure Controls/Personal Protection

Exposure Limits

Component	Source	Exposure Limits
2-diethylaminoethanol	ACGIH TLV	9.6 mg/m³ TWA Skin
	OSHA PEL	50 mg/m³ TWA Skin
Morpholine	ACGIH TLV	71 mg/m³ TWA Skin
	OSHA PEL	70 mg/m³ TWA Skin
Cyclohexylamine	ACGIH TLV	41 mg/m³ TWA

Carcinogenicity Category

Component	Source	Code	Brief Description
2-diethylaminoethanol			N/E
Morpholine	ACGIH	TLV-A4	Not classifiable as a human carcinogen.
	IARC	IARC-3	Unclassifiable as to carcinogenicity in humans
Cyclohexylamine	ACGIH	TLV-A4	Not classifiable as a human carcinogen.

Engineering Controls: Use only with adequate ventilation. The use of local ventilation is

recommended to control emission near the source.

Personal Protection

Eyes: Wear chemical splash goggles or safety glasses with full–face

shield. Maintain eyewash fountain in work area.

Skin: Maintain quick—drench facilities in work area.

Wear butyl rubber or neoprene gloves. Wash them after each use and replace as necessary. If conditions warrant, wear protective clothing

such as boots, aprons, and coveralls to prevent skin contact.

Respiratory: If misting occurs, use NIOSH approved organic vapor/acid gas dual

cartridge respirator with a dust/mist prefilter in accordance with 29

CFR 1910.134.





Section 9. Physical and Chemical Properties

Physical State and Appearance: Liquid, Colorless, Clear

Specific Gravity: 0.994 @ 20°C

pH: 12.0 @ 20°C, 100.0%

Freezing Point: <-11°F
Flash Point: 135°F
Odor: Strong
Melting Point: N/A
Boiling Point: 212°F
Solubility in Water: Complete

Evaporation Rate:

Vapor Density:

N/D

Molecular Weight:

Viscosity:

N/A

Flammable Limits:

Autoignition Temperature:

N/A

8.29 lb/ga

Vapor Pressure: N/D % VOC 35

Section 10. Stability and Reactivity

Chemical Stability: Stable at normal temperatures and pressures.

Incompatibility with Various

Substances:

Strong oxidizers, Acids

Hazardous Decomposition

Products:

Oxides of carbon, Oxides of nitrogen

Possibility of Hazardous

Reactions:

None known.

Section 11. Toxicological Information

Chemical Name	Exposure	Type of Effect	Concentration	Species
2-diethylaminoethanol	Oral	LD50	1300 mg/kg	Rat
	Dermal	LD50	1260 mg/kg	Rabbit
Morpholine	Oral	LD50	1050 mg/kg	Rat
	Dermal	LD50	500 mg/kg	Rabbit
Cyclohexylamine	Oral	LD50	156 mg/kg	Rat
	Dermal	LD50	2.77 mg/kg	Rabbit

Comments: None.





Section 12. Ecological Information

Species	Duration	Type of Effect	Test Results
Ceriodaphnia dubia	48h	LC50	309 mg/l
Fathead Minnow	96h	LC50	330 mg/l

Comments: None.

Section 13. Disposal Considerations

Dispose of in accordance with local, state and federal regulations.

EPA ignitibility characteristic hazardous waste D001 when disposed of in the original product form.

Section 14. Transport Information

DOT

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S.

Technical Name: (CYCLOHEXYLAMINE AND

N,N-DIETHYLETHANOLAMINE)

Hazard Class: Corrosive UN/NA#: UN2735 Packing Group: PGIII

IMDG

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S.

Technical Name: (CYCLOHEXYLAMINE AND

N,N-DIETHYLETHANOLAMINE)

Hazard Class: Corrosive UN/NA#: UN2735 Packing Group: PGIII

TDG

Proper Shipping Name: AMINES, LIQUID, CORROSIVE, N.O.S.

Technical Name: (CYCLOHEXYLAMINE AND

N,N-DIETHYLETHANOLAMINE)

Hazard Class: Corrosive UN/NA#: UN2735 Packing Group: PGIII





ICAO

Proper Shipping Name: Technical Name: AMINES, LIQUID, CORROSIVE, N.O.S.

(CYCLOHEXYLAMINE AND

N,N-DIETHYLETHANOLAMINE)

Hazard Class: Corrosive UN/NA#: UN2735 **Packing Group: PGIII**

Section 15. Regulatory Information

Inventory Status

United States (TSCA): All ingredients listed. All ingredients listed. Canada (DSL/NDSL):

Federal Regulations

SARA Title III Rules

Sections 311/312 Hazard Classes

Fire Hazard: Yes **Reactive Hazard:** No **Release of Pressure:** No **Acute Health Hazard:** Yes **Chronic Health Hazard:** No

Other Sections

	Section 313	Section 302 EHS	
Component	Toxic Chemical	TPQ	CERCLA RQ
2-diethylaminoethanol	N/A	N/A	N/A
Morpholine	N/A	N/A	N/A
Cyclohexylamine	N/A	10000	10000

Comments: None.

State Regulations

California Proposition 65: None known.





Special Regulations

Component	States
2-diethylaminoethanol	MA, MN, PA, WA
Morpholine	MA, MN, PA, WA
Cyclohexylamine	MA, MN, NJ, NY, PA, WA

International Regulations

Canada

WHMIS Classification: D2B (Toxic Material)

E (Corrosive Material)

Controlled Product Regulations

(CPR):

This product has been classified in accordance with

the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all

the information required by the CPR.

Section 16. Other Information

HMIS Hazard Rating

Health: 2
Flammability: 2
Physical Hazard: 0
PPE: X

Notes: The PPE rating depends on circumstances of use. See

Section 8 for recommended PPE.

The Hazardous Material Information System (HMIS) is a voluntary, subjective alpha—numeric symbolic system for recommending hazard risk and personal protection equipment information. It is a subjective rating system based on the evaluator's understanding of the chemical associated risks. The end—user must determine if the code is appropriate for

their use.

NSF: N/A

FDA/USDA/GRAS: All ingredients in this product are authorized in 21 CFR

173.310 for use as "Boiler Water Additives" where the steam

may contact food.

KOSHER: This product is certified by the Orthodox Union as kosher pareve.

FIFRA: N/A

Other: None





Abbreviations

Abbreviation	Definition
<	Less Than
>	Greater Than
ACGIH	American Conference of Governmental Industrial Hygienists
EHS	Environmental Health and Safety Dept
N/A	Not Applicable
N/D	Not Determined
N/E	Not Established
OSHA	Occupational Health and Safety Dept
PEL	Personal Exposure Limit
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weight Average
UNK	Unknown

Prepared by: Regulatory Affairs Department

Disclaimer

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