

SAFETY DATA SHEET

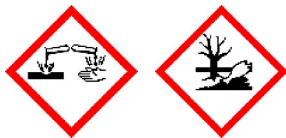
1. PRODUCT AND COMPANY IDENTIFICATION

Product Code: 250616
Product Name: ULTRAMINE CS-210
Category: Corrosion Inhibitor for Cooling Systems
Company Name: Water Science Technologies, LLC
 1701 Vanderbilt Road
 Birmingham, AL 35234
Phone Number: (866)284-9244

Emergency Contact: ChemTel, Inc. (US) (800)255-3924
 ChemTel, Inc. (Int'l) (813)248-0585

2. HAZARDS IDENTIFICATION

Skin Corrosion/Irritation, Category 1B
Serious Eye Damage/Eye Irritation, Category 1
Aquatic Toxicity (Acute), Category 1



GHS Signal Word: **Danger**

GHS Hazard Phrases: H314 - Causes severe skin burns and eye damage.
 H318 - Causes serious eye damage.
 H400 - Very toxic to aquatic life.

GHS Precautionary Phrases: P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
 P264 - Wash hands thoroughly after handling.
 P273 - Avoid release to the environment.
 P280 - Wear protective gloves/protective clothing/eye protection/face protection.

GHS Response Phrases: P301+330+331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
 P303+361+353 - IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
 P304+340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P305+351+338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P310 - Immediately call a POISON CENTER or doctor/physician.
 P363 - Wash contaminated clothing before reuse.
 P391 - Collect spillage.

GHS Storage and Disposal Phrases: P405 - Store locked up.
 P501 - Dispose of contents/container to an approved waste disposal site.

Hazard Rating System:

HEALTH	1
FLAMMABILITY	1
PHYSICAL	0
PPE	C

HMIS:

SAFETY DATA SHEET

Potential Health Effects (Acute and Chronic):

Inhalation: May cause respiratory irritation.
Skin Contact: Causes skin irritation or burns.
Eye Contact: Causes eye irritation or eye damage.
Ingestion: May cause gastrointestinal irritation with nausea, vomiting and diarrhea.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS #	Ingredient(s)	Concentration
7173-62-8	(Z)-N-9-octadecenylpropane-1,3-diamine	10.0 -25.0 %
61791-26-2	Fatty alkylamine, ethoxylated	1.0 -2.5 %

4. FIRST AID MEASURES

Emergency and First Aid Procedures:

In Case of Inhalation: Remove to fresh air and keep at rest in a position comfortable for breathing. If breathing is difficult, give oxygen. Seek medical advice/attention if you feel unwell.

In Case of Skin Contact: Wash exposed area with soap and water thoroughly. Remove contaminated clothing and wash before reuse. Seek medical advice/attention if irritation develops or persists.

In Case of Eye Contact: Immediately flush eyes with running water for at least 15 minutes. Remove contact lenses if present after the first 5 minutes. Seek medical advice/attention immediately.

In Case of Ingestion: Rinse mouth with water. Do NOT induce vomiting. Give plenty of water. Never give anything to an unconscious person. Seek medical advice/attention immediately.

Note to Physician: Based on the individual reactions of the patient, the physician's judgment should be used to treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES

Flash Pt: > 93.3 C (> 200.00 F) Method Used: ASTM D Closed Cup

Explosive Limits: LEL: No data. UEL: No data.

Autoignition Pt: No data.

Suitable Extinguishing Media: Use water spray, dry chemical, carbon dioxide, or alcohol-resistant foam. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective.

Fire Fighting Instructions: Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Flammable Properties and Hazards: No data available.

SAFETY DATA SHEET

6. ACCIDENTAL RELEASE MEASURES

Protective Precautions, Protective Equipment and Emergency Procedures:	Avoid contact with spilled material. Avoid breathing vapors, mist, or gas. Ventilate area of leak or spill. Wear appropriate personal protection equipment.
Environmental Precautions:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
Steps To Be Taken In Case Material Is Released Or Spilled:	Collect liquid by absorbing with an inert material (e.g. vermiculite, dry sand, earth), clean contaminated surface thoroughly, and place in a container for disposal according to local regulations.

7. HANDLING AND STORAGE

Precautions To Be Taken in Handling:	Avoid prolonged or repeated contact with eyes, skin, or clothing. Wash thoroughly after handling. Avoid breathing product vapors or mists. Use with adequate ventilation. Keep containers closed when not in use.
Precautions To Be Taken in Storing:	Store in a dry, cool, and well ventilated area away from heat sources and incompatible materials. Keep containers securely sealed. Protect containers from physical damage and check regularly for leaks.

Product should be stored at temperatures above 50°F (10°C). At temperatures below 50°F (10°C), product can separate.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CAS #	Components (Chemical Name)	OSHA TWA	ACGIH TWA	Other Limits
7173-62-8	(Z)-N-9-octadecenylpropane-1,3-diamine	No data.	No data.	No data.
61791-26-2	Fatty alkylamine, ethoxylated	No data.	No data.	No data.

Respiratory Equipment (Specify Type):	Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
Eye Protection:	Splash goggles and/or face shield.
Protective Gloves:	Wear appropriate gloves to prevent skin exposure.
Other Protective Clothing:	Wear appropriate protective clothing to prevent skin exposure.
Engineering Controls (Ventilation etc.):	Use local and/or general exhaust ventilation to maintain airborne concentrations below irritating levels or airborne exposure limits, whichever is lower. Local exhaust is generally preferred because it can control the emission of the contaminant at its source, preventing dispersion of it into the general work area.
Work/Hygienic/Maintenance Practices:	An eye wash station should be accessible in the immediate area of use. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.
Environmental Exposure Controls:	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

SAFETY DATA SHEET

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical States:	<input type="checkbox"/> Gas	<input checked="" type="checkbox"/> Liquid	<input type="checkbox"/> Solid
Appearance and Odor:	White. amine-like.		
Freeze Point/Pour Point:	No data.		
Boiling Point:	No data.		
Autoignition Pt:	No data.		
Flash Pt:	> 93.3 C (> 200.00 F) Method Used: ASTM D Closed Cup		
Explosive Limits:	LEL: No data.	UEL: No data.	
Specific Gravity (Water = 1):	0.99+/-0.05		
Vapor Pressure (vs. Air or mm Hg):	No data.		
Vapor Density (vs. Air = 1):	No data.		
Evaporation Rate:	No data.		
Solubility in Water:	completely miscible		
pH:	8.0-10.0		
Percent Volatile:	No data.		

10. STABILITY AND REACTIVITY

Stability:	Unstable <input type="checkbox"/> Stable <input checked="" type="checkbox"/>
Conditions To Avoid - Instability:	Extremes of temperature and direct sunlight. flames and sparks.
Incompatibility - Materials To Avoid:	Strong acids, Strong oxidizing agents, Alkali metals.
Hazardous Decomposition or Byproducts:	Carbon monoxide, Carbon dioxide, Nitrogen oxides, Ammonia. Will occur <input type="checkbox"/> Will not occur <input checked="" type="checkbox"/>
Possibility of Hazardous Reactions:	No data available.
Conditions To Avoid - Hazardous Reactions:	

SAFETY DATA SHEET

11. TOXICOLOGICAL INFORMATION

Toxicological Information: The product has not been tested. Any statements on toxicology have been derived from products of a similar structure and composition.

CAS# 61791-26-2:

Acute toxicity, LD50, Oral, Rat, 620.0 MG/KG.

Result:

Gastrointestinal: Nausea or vomiting.

- Farm Chemicals Handbook., Meister Pub., 37841 Euclid Ave., Willoughby, OH 44094, Vol/p/yr: -, C147, 1991

Acute toxicity, LD50, Skin, Rat, > 10.00 GM/KG.

Result:

Skin and Appendages: Skin: After systemic exposure: Dermatitis, other.

- Farm Chemicals Handbook., Meister Pub., 37841 Euclid Ave., Willoughby, OH 44094, Vol/p/yr: -, C147, 1991

CAS #	Ingredient(s)	NTP	IARC	ACGIH	OSHA
7173-62-8	(Z)-N-9-octadecenylpropane-1,3-diamine	n.a.	n.a.	n.a.	n.a.
61791-26-2	Fatty alkylamine, ethoxylated	n.a.	n.a.	n.a.	n.a.

12. ECOLOGICAL INFORMATION

General Ecological Information: This product has not been tested as a finished product. Below are the calculated values based on the ingredients within the product.

EC50 (48h), Water Flea (Daphnia magna): 0.1 - 1.0 mg/L

EC50 (96h), Fathead Minnow (Pimephales promelas): 1.0 - 10.0 mg/L

61791-26-2 fatty alkylamine, ethoxylated:

LC50 (96 h): > 1 - 10 mg/L (rainbow trout) (OECD 203)

EC50 (48 h): > 1 - 10 mg/L (daphnia magna) (OECD 202)

EC50 (72 h): > 1 - 10 mg/L (Phaeodactylum tricornutum) (ISO 10253)

NOEC: 0.05 mg/L (Phaeodactylum tricornutum) (ISO 10253)

7173-62-8 (Z)-N-9-octadecenylpropane-1,3-diamine:

LC50 (96 h): 0.148 mg/L (Brachydanio rerio) (OECD 203)

EC50 (48 h): 0.013 - 0.025 mg/L (daphnia magna) (OECD 202)

EC50 (72 h): > 0.01 - 0.1 mg/L (desmodesmus subspicatus) (OECD 201)

NOEC: > 0.01 - 0.1 mg/L (daphnia magna) (OECD 211, 21 d)

Persistence and Degradability: Easily biodegradable.

Bioaccumulative Potential: Not expected.

SAFETY DATA SHEET

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method: RCRA: It is the responsibility of the product user to determine at the time of disposal whether a material containing the product or derived from the product should be classified as a hazardous waste (40 CFR 261.20-24).

Disposal: Whatever cannot be saved for recovery or recycling should be disposed of in accordance with local, state, and federal regulations. Consult state or local regulation for any additional handling, treatment, or disposal requirements. For disposal, contact a properly licensed waste treatment, storage, disposal, or recycling facility.

14. TRANSPORT INFORMATION

LAND TRANSPORT (US DOT):

DOT Proper Shipping Name: Not Regulated.

DOT Hazard Class:

UN/NA Number:

LAND TRANSPORT (Canadian TDG):

TDG Shipping Name: Not Regulated.

UN Number:

Hazard Class:

TDG Classification:

MARINE TRANSPORT (IMDG/IMO):

IMDG/IMO Shipping Name: Not Regulated.

AIR TRANSPORT (ICAO/IATA):

ICAO/IATA Shipping Name: Not Regulated.

15. REGULATORY INFORMATION

EPA SARA (Superfund Amendments and Reauthorization Act of 1986) Lists

CAS #	Ingredient(s)	S. 302 (EHS)	S. 304 RQ	S. 313 (TRI)
7173-62-8	(Z)-N-9-octadecenylpropane-1,3-diamine	No	No	No
61791-26-2	Fatty alkylamine, ethoxylated	No	No	No

This material meets the EPA [] Yes [X] No Explosive

'Hazard Categories' defined [] Yes [X] No Flammable (gases, aerosols, liquid, or solid)

for SARA Title III Sections [] Yes [X] No Oxidizer (liquid, solid or gas)

311/312 as indicated: [] Yes [X] No Self-reactive

[] Yes [X] No Pyrophoric (liquid or solid)

[] Yes [X] No Pyrophoric gas

[] Yes [X] No Self-heating

[] Yes [X] No Organic peroxide

[] Yes [X] No Corrosive to metal

[] Yes [X] No Gas under pressure (compressed gas)

[] Yes [X] No In contact with water emits flammable gas

[] Yes [X] No Combustible Dust

[] Yes [X] No (Physical) Hazard Not Otherwise Classified (HNOC)

[] Yes [X] No Acute toxicity (any route of exposure)

[X] Yes [] No Skin Corrosion or Irritation

[X] Yes [] No Serious eye damage or eye irritation

[] Yes [X] No Respiratory or Skin Sensitization

SAFETY DATA SHEET

- Yes No Germ cell mutagenicity
- Yes No Carcinogenicity
- Yes No Reproductive toxicity
- Yes No Specific target organ toxicity (single or repeated exposure)
- Yes No Aspiration Hazard
- Yes No Simple Asphyxiant
- Yes No (Health) Hazard Not Otherwise Classified (HNOC)

CAS #	Ingredient(s)	Canadian NPRI	Canadian IDL	Canadian DSL
7173-62-8	(Z)-N-9-octadecenylpropane-1,3-diamine	No	No	Yes
61791-26-2	Fatty alkylamine, ethoxylated	No	No	Yes

CAS #	Ingredient(s)	Other US EPA or State Lists
7173-62-8	(Z)-N-9-octadecenylpropane-1,3-diamine	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No
61791-26-2	Fatty alkylamine, ethoxylated	CAA HAP,ODC: No; CWA NPDES: No; TSCA: Yes - Inventory; CA PROP.65: No

Canadian WHMIS Classification:



CLASS E: Corrosive Materials
 CLASS D, DIVISION 2, SUBDIVISION B: Toxic Materials (Mutagenicity, skin sensitization, irritation, etc.)

Regulatory Information: Canadian regulations: This product has been classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

16. OTHER INFORMATION

Revision Date: 03/26/2019

Additional Information About No data available.

This Product:

Company Policy or

Disclaimer:

The information accumulated herein is believed to be accurate based on the information provided, although no guarantee or warranty, either expressed or implied is made as to the accuracy or completeness of this information, whether originating with this company or not. Recipients are advised to confirm in advance of need that the information is correct, applicable and suitable to their circumstances. The conditions or methods of handling, storage, use and disposal of the product and container 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 or use of this information or product. If the product is used as a component in another product, this information may not be applicable.