Safety Data Sheet for: Watcon 128

1. Identification

Name of Product Watcon 128

Recommended Use Boiler Water Treatment

Producer Watcon, Inc.
2215 South Main Street
South Bend, IN 46613
574.287.3397

Emergency CHEMTREC 800.492.6300

2. Hazards Identification

GHS Classification:

Health	Environmental	Physical
Skin Corrosion – Category 1 **Eye Corrosion – Category 1** **Target Organ Toxicity – Category 2**		**Corrosive to Metals**

GHS Label

Danger

Hazard Statements Corrosive to eyes and skin. Irritating the respiratory system.	**Precautionairy Statements** Occupational exposure to this material has not been reported to cause significant adverse health effects. This material is not expected to produce significant adverse human health effects when recommended safety precautions are followed. This material may irritate mucous tissues if inhaled or swallowed Avoid breathing mists or vapors Avoid contact with strong oxidizers, light metals, or light metal alloys. Wear safety glasses or goggles and chemically impenetrable gloves. Eye wash fountains in the workplace are recommended.

3. Composition / Information on Ingredients

Component	CAS Number	Weight
2-Diethylaminoethanol	100-37-8	15 - 17

4. First Aid Measures

Ingestion

- Never give anything by mouth to an unconscious person
- Do not induce vomiting without medical advice
- If victim is conscious
- Rinse mouth
- drink 1 or 2 glasses of water
- Immediate medical attention is required

Skin Contact	• Immediately flush skin with running water for 30 minutes or until no traces remain. Wash with soap and water. Remove contaminated clothing immediately. • Seek immediate medical attention/advice
Eye Contact	• Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 30 minutes. • Immediate medical attention is required
Inhalation	• Move to fresh air • If breathing is difficult, give oxygen • If breathing is irregular or stopped, administer artificial respiration • Do not give mouth-to-mouth • Immediate medical attention is required • Symptoms may be delayed

5. Fire Fighting Measures

Suitable Extinguishing Media	• Alcohol-resistant foam • water spray • carbon dioxide (CO2) • dry chemical
Specific methods	• In case of fire, stop leak if safe to do so • Evacuate area and fight fire from a safe distance • Keep people away from and upwind of spill/leak • Suppress (knock down) gases/vapors/mists with a water spray jet • In the event of fire, cool tanks with water spray • Do not allow run-off from fire fighting to enter drains or water courses
Special protective equipment for fire-fighters	• Firefighters and others who may be exposed to products of combustion should wear full fire fighting turn out gear (full Bunker Gear) and self-contained breathing apparatus (pressure demand NIOSH approved or equivalent)
Specific hazards	• Eliminate all ignition sources if safe to do so • Pay attention to the spreading of gases especially at ground level (heavier than air) and to the direction of the wind • Pay attention to flashback • Fire or intense heat may cause violent rupture of packages • In case of fire hazardous decomposition products may be produced such as • Nitrogen oxides (NOx) • Ammonia • Carbon monoxide

6. Accidental Release Measures

Important: Before responding to a spill or leak of this product, review each section of the MSDS. Follow the recommendations in the Handling and Storage Precautions section. Whenever feasible, make sure that spilled or leaked product does not come in contact with materials listed as incompatible. If noxious fumes are present, consider evacuation of enclosed areas. Minimize the area affected by the release. Block any potential routes to water systems. Assess the impact on contaminated environments based on 1) the product's toxicological and chemical properties and 2) the size and location of the spill. Determine if federal, state, and/or local release notification is required. Recover as much of the product for reuse as possible. Spill or leak residuals may have to be collected and disposed. Clay, soil, or commercial absorbents may be used to recover material that cannot be reused. Flushing residual material to an industrial sewer, if present, may be acceptable if authorized approval is obtained. Contact the person(s) responsible for the operation of your facility's industrial sewer system prior to intentionally flushing or pumping spills and leaks to the sewer system. Follow all federal, state, and local regulations governing the disposal of waste materials.

7. Handling and Storage

Storage

Technical measures/Precautions	• In accordance with local and national regulations • Keep containers tightly closed in a dry, cool and well-ventilated place • Keep away from open flames, hot surfaces and sources of ignition • Protect containers from physical damage • To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded
Incompatible products	• Strong acids and oxidizing agents

Handling

Technical measures/Precautions
- In accordance with local and national regulations
- Use only in area provided with appropriate exhaust ventilation
- Ensure that eyewash stations and safety showers are close to the workstation location

Safe handling advice
- Wear personal protective equipment
- Ensure adequate ventilation
- Do not breathe vapors or spray mist
- In case of insufficient ventilation, wear suitable respiratory equipment
- Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors)
- Ground and bond containers when transferring material
- Do not use sodium nitrite or other nitrosating agents in product
- Empty containers retain product residue and may be hazardous
- Wash thoroughly after handling

8. Exposure Controls / Personal Protection

EXPOSURE GUIDELINES

INGREDIENT NAME	CAS#	TLV(ACGIH)	OSHA PEL
2-Diethylaminoethanol	100-37-8	TWA: 2 ppm	PEL 50 mg/m^3, 10ppm
Water	7732-18-5	None Known	

Respiratory Protection
- In accordance with local and national regulations
- Use only in area provided with appropriate exhaust ventilation
- Avoid breathing dust/fume/gas/mist/vapors/spray
- In case of insufficient ventilation, wear suitable respiratory equipment
- a respirator with filter for organic vapor
- In case of higher concentration
- wear a positive-pressure supplied-air respirator with full facepiece
- The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace

Engineering measures
- Local exhaust
- Use explosion-proof equipment

Personal Protective Equipment

Eye Protection
- Face-shield
- Chemical resistant goggles must be worn
- Ensure that eyewash stations and safety showers are close to the workstation location

Hand protection
- Impervious gloves
- Solvent-resistant gloves
- Request information on glove permeation properties from the glove supplier

Skin Protection
- Solvent-resistant apron and boots
- Wash contaminated clothing before re-use
- Choose body protection according to the amount and concentration of the dangerous substance at the work place

Environmental exposure controls
- Do not contaminate surface water
- Avoid subsoil penetration

9. Physical and Chemical Properties

Physical state Liquid
Appearance: Pink
Odor: Amine-like
Odor Threshold [ppm]: No data available.
Decomposition Temperature: No data available
Boiling Point: < 212°F (100°C)
Vapor Density (air=1): No data available
Relative Density/Specific Gravity(water=1): 0.90 – 1.00 @ 20 °C
Water Solubility: 100%
Volatility: No data available
Evaporation Rate (ether=1): No data avail

10. Stability and Reactivity

Stability
- Stable under recommended storage conditions

Conditions to Avoid
- Keep away from open flames, hot surfaces and sources of ignition
- Materials to avoid
- Incompatible with strong acids and oxidizing agents
- Peroxides
- Do not use sodium nitrite or other nitrosating agents in product
- Product slowly corrodes copper, aluminum, zinc and galvanized surfaces

Hazardous Decomposition Products
- Thermal decomposition can lead to release of irritating gases and vapours
- Carbon monoxide
- Carbon dioxide (CO_2)
- Ammonia
- Nitrogen oxides (NOx)

Hazardous Polymerization: Hazardous polymerization does not occur..

11. Toxicological Information

Eye Contact: Vapors may cause severe irritation and conjunctivitis with possible cornea edema. May cause a perception of a "blue haze" or "fog" around lights. Corrosive to the eyes and may cause severe damage including blindness.

Skin Contact: Corrosive to skin. Causes skin burns. May be absorbed through the skin in harmful amounts.

Inhalation: May cause irritation of the mucous membranes. May cause irritation of respiratory tract. Vapors may have a strong offensive odor which may cause headaches, nausea, and vomiting.

Ingestion: If ingested, severe burns of the mouth and throat, as well as a danger of perforation of the esophagus and the stomach.

Chronic Effects: None known.

Carcinogenicity: The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	IARC	ACGIH	OSHA	NTP
2-Diethylaminoethanol	Not Listed	Not Listed	Not Listed	Not Listed

Aggravated Medical Conditions: Respiratory disorders.

Product Information

LD50/oral/rat =	7920 mg/kg
LD50/dermal/rabbit =	6600 mg/kg
LC50/inhalation/4h/rat =	27.6 mg/l
Eye irritation	Corrosive
Skin irritation	Corrosive
Sensitization	No sensitization responses were observed
Mutagenic Effects	Did not show mutagenic effects in animal experiments
Carcinogenic effects	Did not show carcinogenic or teratogenic effects in animal experiments

12. Ecological Information

Ecotoxicity

Toxicity to fish LC50 :	>600 mg/l
EC50/48h/daphnia =	501.6 mg/l
EC50/72h/algae =	180 mg/l
Toxicity to bacteria	Not required: Readily biodegradable:

Persistence and Degradability

Readily biodegradable

13. Disposal Considerations

Waste from material: Reuse or reprocess, if possible. May be subject to disposal regulations. Dispose in accordance with all applicable regulations.

Container Management: Dispose of container in accordance with applicable local, regional, national, and/or international regulations. Container rinsate must be disposed of in compliance with applicable regulations.

14. Transport Information

U.S. Department of Transportation (DOT)
Proper Shipping Name: Ethanolamine Solution
Hazard Class: 8, Corrosive
UN Number: UN2491
Packing Group: III

15. Regulatory Information

All of the components in the product are on the following Inventory lists: U.S.A. (TSCA), Europe (EINECS/ELINCS/NLP), Canada (DSL/NDSL), Japan (ENCS), Australia (AICS), Philippines (PICCS), China (IECSC), Korea (KECL), New Zealand (NZIoC).

OSHA HAZARD CLASSIFICATION: This material is classified as hazardous under Federal OSHA regulation: Corrosive

SARA 311/312 Hazardous Categorization
Acute Health Hazard

SARA TITLE III SECTION 313 INFORMATION:
Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

CERCLA Hazardous Substances
This product does not contain any RQs or TPQs under this regulation.

16. Other Information

HMIS/NPCA Ratings: Health 1; Flammability 0; Reactivity 0
NFPA Ratings: Health 1; Flammability 0; Reactivity 0

The information on this Material Safety Data Sheet reflects the latest information and data that we have on hazards, properties, and handling of this product under the recommended conditions of use. Any use of this product or method of application, which is not described in the Product Data Sheet, is the sole responsibility of the user.

Watcon, Inc. makes no warranty, either expressed or implied, concerning this product, its performance, merchantablility, or fitness for a particular purpose other than that expressly designated. Buyer assumes all risk of use and handling of this material.

Revision: 1
Reason for revision: Convert to GHS format