

MATERIAL SAFETY DATA SHEET

Boilers

● Section 1 – PRODUCT IDENTIFICATION

MANUFACTURER'S NAME DEARBORN CHEMICAL CO., Subsidiary, W. R. Grace & Co.	EMERGENCY PHONE NO. 312/438-8241
ADDRESS 300 Genesee St., Lake Zurich, IL 60047	

CHEMICAL NAME AND SYNONYMS Cooling water microbicide and slimicide EPA Reg. No. 4643-25	TRADE NAME OR CODE IDENT. AQUA-SERV® A-115
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● Section 2 – INGREDIENTS

INGREDIENTS	CAS No.	%	EXPOSURE CRITERIA
2,2 - Dibromo-3-nitrilopropionamide	10222-01-1	20.0	
Polyethylene glycol, water blend	25322-68-3	80.0	

● Section 3 – PHYSICAL DATA

BOILING POINT, 760mm Hg decomposes	>250°F.	MELTING POINT	
SPECIFIC GRAVITY (H ₂ O = 1)	1.26	VAPOR PRESSURE	
VAPOR DENSITY (AIR = 1)	N/A	SOLUBILITY IN H ₂ O, % BY WT.	completely miscible
% VOLATILES BY VOLUME	N/A	EVAPORATION RATE, _____ = 1	
APPEARANCE AND ODOR	Amber liquid with a medicinal odor	pH	4.0

● Section 4 – FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (and Method Used) None	FLAMMABLE LIMITS in AIR, % by VOLUME LOWER Not established UPPER	AUTO IGNITION TEMPERATURE
EXTINGUISHING MEDIA <input type="checkbox"/> Water Fog <input checked="" type="checkbox"/> Alcohol Foam <input type="checkbox"/> CO ₂ <input checked="" type="checkbox"/> (Preferred) Dry Chemical <input type="checkbox"/> Other		

SPECIAL FIRE FIGHTING PROCEDURES

Wear self-contained breathing apparatus and goggles

UNUSUAL FIRE AND EXPLOSION HAZARD

Toxic combustion products include methyl bromide, ethyl bromide, hydrogen cyanide and nitric oxide.

● Section 5 – REACTIVITY DATA

STABILITY (Normal Conditions) <input checked="" type="checkbox"/> Stable <input type="checkbox"/> Unstable	CONDITIONS TO AVOID Temperatures above 140°F. for product as shipped
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INCOMPATIBILITY (Materials to Avoid)

Degradation is caused by basic solutions (alkaline solution)

HAZARDOUS DECOMPOSITION PRODUCTS

Gases formed above 248°F. - Methyl bromide, ethyl bromide, hydrogen cyanide, nitric oxide, and cyanogen bromide

HAZARDOUS POLYMERIZATION

 May Occur Will Not Occur

CONDITIONS TO AVOID

(over)

MATERIAL SAFETY DATA SHEET (Continued)

● Section 6 -- HEALTH HAZARD INFORMATION

EXPOSURE LIMIT

The industrial health guide for DBNPA is 2 mg/m³ (ceiling)

EFFECTS OF OVEREXPOSURE

INHALATION Considered to be low in hazard by inhalation. Irritant gas may form in vapor space of container which becomes self-warning signal to prevent over-exposure. If ill effects occur, get person to fresh air and get medical help.

INGESTION If swallowed, induce vomiting by giving two glasses of water and stick finger down throat. Call physician immediately. NOTE TO PHYSICIAN: Treatment depends on the sound judgement of the physician and the individual reactions of the patient.

SKIN OR EYE CONTACT **EYES:** Immediately flush with plenty of water for at least 15 minutes and get medical help promptly. **SKIN:** Immediately flush skin with plenty of water for at least 15 minutes while removing all contaminated clothing including shoes. Free clothing of product before reuse or discard. May be a skin sensitizer, skin absorption is low. Repeated or prolonged skin exposure may cause burn. Treat as any thermal burn.

EMERGENCY AND FIRST AID PROCEDURES

NOTE TO PHYSICIAN: In case of eye contact, may cause corneal injury or burn. Stain for evidence of corneal injury. If cornea is burned, instill antibiotic steroid preparation frequently. Consult ophthalmologist.

● Section 7 -- SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS Requires good room ventilation. Mechanical ventilation sufficient to minimize breathing vapor. Control mists to suggested exposure limit.

RESPIRATORY PROTECTION (Specify Type)

Use an organic vapor-acid gas respirator to prevent worker contact during bulk handling.

EYE PROTECTION

Chemical goggles or face shield REQUIRED FOR ANY USE.

GLOVES (Specify Type)

Impervious gloves, boots and apron as dictated by circumstances.

OTHER PROTECTIVE CLOTHING AND EQUIPMENT (Specify Type)

Eye fountains & wash facilities in or near work area - VERY IMPORTANT!

● Section 8 -- SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED Use gas tight air mask for handling gross spills. Vapor may be toxic. Contain spill; soak up with absorbent material and shovel into drums. To hasten degradation of A-115 solution add an excess of soda ash, or other alkaline

WASTE DISPOSAL METHOD material. Maintain the solution at a pH of 8.1 or higher for at least 18 hours before disposing of it. Material and container should be disposed according to EPA Hazardous Waste Regulations. See Dearborn Technical Bulletin 51-104.

● Section 9 -- SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE Prevent eye contact. Avoid skin contact and breathing vapors if generated. To maintain storage stability, keep container closed. Freeze point, < -15°F. Keep container out of sun and below 140°F. For industrial use only.

OTHER PRECAUTIONS When opening container, wear eye protection and use care in removing closure. Gas pressure in vapor space may cause CO₂ release. When storing empty container for several days or longer, add small amount of water to prevent irritant gas formation.

Shipping Name: DOT Compound Industrial Process Water Treating, Liquid - NOT RESTRICTED

IATA

Prepared By W. M. Morris

Date: 8/78 (Revised 10/83)