

MATERIAL SAFETY DATA SHEET

• Section 1 - PRODUCT IDENTIFICATION

Manufacturer's Name DEARBORN DIVISION, W. R. Grace & Company	Emergency Phone No. 312/438-8241
Address 300 Genesee St., Lake Zurich, IL 60047	
Synonyms Cooling water Microbicide	Trade Name or Code Ident. DEARCIDE® 702

• Section 2 -HAZARDOUS INGREDIENTS

CAS NO.	%	EXPOSURE CRITERIA
5-Chloro-2-methyl-4-isothiazolin-3-one	26172-55-4	1.15
2-Methyl-4-isothiazolin-3-one	2682-20-4	0.35
Magnesium chloride	--	< 2.0
Magnesium nitrate	--	< 3.0
Water	7732-18-5	<96.0

Total isothiazolines
TWA= 0.1 mg/m³
STEL= 0.3 mg/m³

EPA Reg. No. 4643-40

NFPA: 3-0-0

• Section 3 - PHYSICAL DATA

Boiling Point, 760mm Hg	212°F	Melting Point	NA
Specific Gravity(H ₂ O=1)	1.01	Vapor Pressure @ 25°C approx.	17 mm Hg est.
Vapor Density (Air=1)	0.6 est.	Solubility in H ₂ O(% by Wt.)	complete
% Volatiles by Volume	ND	Evaporation Rate (Bu Ac=1)	< 1
Appearance & Odor: Pale amber to green liquid. Mild aromatic odor			pH
			3-5

• Section 4 - FIRE & EXPLOSION HAZARD DATA

Flash Point(and Method Used)	Flammable Limits in Air, % by Volume	Auto Ignition Temperature
NA, water-based product	Lower NA	Upper NA
		NA

EXTINGUISHING

MEDIA Water Fog Foam CO₂ Dry Chemical Other

SPECIAL FIRE FIGHTING PROCEDURES - If material is involved in a fire, firefighters should use approved self-contained breathing apparatus & full protective gear. Use water spray to cool exposed containers.

UNUSUAL FIRE AND EXPLOSION HAZARD - Avoid exposure to fumes & vapors from a fire - can possibly include sulfur oxides, oxides of nitrogen & HCl.

• Section 5 - REACTIVITY DATA

Stability(Normal Conditions)	CONDITIONS TO AVOID
<input checked="" type="radio"/> Stable <input type="radio"/> Unstable	Evaporation to dryness: Nitrates can explode.
INCOMPATIBILITY(Materials to Avoid)	None known

HAZARDOUS DECOMPOSITION PRODUCTS

HCl, oxides of sulfur & oxides of nitrogen,

HAZARDOUS POLYMERIZATION

CONDITIONS TO AVOID

May Occur Will Not Occur

(over)

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Section 6 - HEALTH HAZARD INFORMATION

Toxicity information:

Eye irritation rabbit: Corrosive. Corneal injury. Skin irritation. Corrosive under test conditions for DOT skin corrosivity.

Sensitization human: Can cause allergic contact dermatitis.

EFFECTS OF OVEREXPOSURE

INHALATION: Harmful in inhaled

SKIN CONTACT: Corrosive to the skin; causes skin burns, these effects may be delayed for hours. Can cause allergic contact dermatitis. Harmful if absorbed through skin; may be fatal from large exposures.

EYE CONTACT: Corrosive to eyes; causes irreversible eye damage.

INGESTION: May be fatal if swallowed.

EMERGENCY AND FIRST AID PROCEDURES

Inhalation: Move subject to fresh air. Apply artificial respiration if needed.

Eye and Skin contact: Immediately flush eyes with plenty of water and continue for at least 15 minutes. Get prompt medical attention. Wash skin thoroughly with soap and water. Remove contaminated clothing and wash before reuse.

Ingestion: DO NOT induce vomiting. If swallowed dilute by giving 2 glasses of water to drink and call a physician immediately. Never give anything by mouth to an unconscious person. NOTE TO PHYSICIAN: Mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be required.

Section 7 - SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS

Mechanical local exhaust at point of contaminant (vapor or mist) release.

RESPIRATORY PROTECTION (Specify Type) - Wear MSHA/NIOSH- approved respirator suitable for concentrations encountered where exposure limits are exceeded.

EYE PROTECTION - Splashproof goggles and face shield (ANSI Z87.1, or equivalent)

GLOVES (Specify Type)
Impervious

OTHER PROTECTIVE CLOTHING AND EQUIPMENT (Specify Type)

Impervious apron, eyewash facility, emergency shower.

Section 8 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED - Wear protective clothing, splashproof goggles and impervious overshoes. Remove contaminated clothing promptly; launder thorough before reuse. Wash skin with soap and water. CAUTION: KEEP SPILLS OUT OF MUNICIPAL SEWERS AND OPEN BODIES OF WATER. Dike and absorb spill with inert material (dry earth, sand). Shovel all contaminated solids--diking material, absorbent and soil--into corrosion-proof drums. Seal drums before disposal.

WASTE DISPOSAL METHODS - Pesticide disposal, for discard, this is a hazardous waste:

RCRA No. D002; reportable quantity; 1 lb. (CERCLA (Superfund) Sec. 103).

Pesticide wastes are acutely hazardous improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance. Container Disposal: Do not reuse empty container. Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

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Section 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE - Do not contaminate water, food, or feed by storage or disposal. Keep containers closed when not in use.

OTHER PRECAUTIONS - Wash thoroughly after handling.

Shipping Name: DOT Corrosive liquid, n.o.s. UN 1760
IATA

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Prepared by S. Morss

Date 6/86