

MATERIAL SAFETY DATA SHEET

• Section 1 - PRODUCT IDENTIFICATION	
Manufacturer's Name DEARBORN DIVISION, W. R. Grace & Company	Emergency Phone 312/438-8241
Address 300 Genesee St., Lake Zurich, IL 60047	
Synonyms Cooling water microbicide and slimicide	Trade Name or Code Identifier DAS - A-105

• Section 2 - HAZARDOUS INGREDIENTS	CAS NO.	%	EXPOSURE CRITERIA
Alkyl Dimethyl Benzyl Ammonium Chloride	1875-92-9	12.5%	-
bis (Tri-n-Butyltin) Oxide	56-35-9	2.25%	-
Inert Ingredients	-	82.25%	-
			NFPA: 2-0-0

• Section 3 - PHYSICAL DATA			
Boiling Point, 760mm Hg	No data	Melting Point	NA
Specific Gravity (H ₂ O=1)	1.0	Vapor Pressure @ 25°C approx	21 mm Hg
Vapor Density (Air=1)	No data	Solubility in H ₂ O (% by Wt.)	appreciable
% Volatiles by Volume	No data	Evaporation Rate (Bu Ac=1)	< 1
Appearance & Odor: Colorless liquid with a slightly aromatic odor		pH	9 - 10

• Section 4 - FIRE & EXPLOSION HAZARD DATA		
Flash Point (and Method Used)	Flammable Limits in Air, % by Volume Lower Upper	Auto. Ignition Temperature
None	NA NA	NA

EXTINGUISHING MEDIA Water Fog Foam CO₂ Dry Chemical Other

SPECIAL FIRE FIGHTING PROCEDURES
Fire fighters should wear full protective gear including breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARD
None

• Section 5 - REACTIVITY DATA	
Stability (Normal Conditions) <input checked="" type="radio"/> Stable <input type="radio"/> Unstable	CONDITIONS TO AVOID
INCOMPATIBILITY (Materials to Avoid)	Strong oxidizing agents
HAZARDOUS DECOMPOSITION PRODUCTS CO, CO ₂ , NH ₃	
HAZARDOUS POLYMERIZATION <input type="radio"/> May Occur <input checked="" type="radio"/> Will Not Occur	CONDITIONS TO AVOID

MATERIAL SAFETY DATA SHEET (Continued)

Section 6 - HEALTH HAZARD INFORMATION

EXPOSURE LIMIT

Not established

EFFECTS OF OVEREXPOSURE

INHALATION - Avoid prolonged exposure to vapors which may irritate nasal passages.

INGESTION - Harmful or fatal if swallowed. Avoid contamination of food. Oral toxicity; LD50 (rats)- 3,008 mg/kg. If ingested contact physician and give promptly milk, egg whites, or gelatin solution. If these are not available, give large quantity of water. Induce vomiting by giving syrup of ipecac.

SKIN OR EYE CONTACT - Causes eye damage and skin irritation. Skin contact: Wash off area of skin contact with soap and water. Eyes: Flood eyes with water and seek medical attention.

EMERGENCY AND FIRST AID PROCEDURES

See above

Section 7 - SPECIAL PROTECTION INFORMATION

VENTILATION REQUIREMENTS

Mechanical exhaust should be adequate.

RESPIRATORY PROTECTION (Specify Type) None special - Do not breathe mist or vapors

EYE PROTECTION Goggles or face shield

GLOVES (Specify Type) Chemical gloves

OTHER PROTECTIVE CLOTHING AND EQUIPMENT (Specify Type) Wear protective clothing to minimize skin contact.

Section 8 - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED - Collect using absorbent, place in container for proper disposal. Use up to equal amounts of sodium oleate to detoxify.

WASTE DISPOSAL METHOD - Do not flush large quantities to drain that could upset waste treatment systems. Material should be disposed according to EPA Pesticide label instructions. Water treated with DAS A-105 should not be used for food processing, irrigation or in the manufacture of paper used for food packaging. Treated effluent should not be discharged where it will drain into lakes, streams, ponds, or public water. Do not contaminate water by cleaning of equipment.

Section 9 - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Keep container closed and protect from freezing. Freeze point, 24°F.

OTHER PRECAUTIONS

For industrial use only. Keep away from children.

Shipping Name: DOT Compound Industrial Process Water Treating, Liquid IATA

or disposal of wastes. Apply this product only as specified on the label. Do not reuse empty drum. Rinse thoroughly with water and return to drum reconditioner, or destroy by perforating or crushing. Keep this product away from heat or open flames.

The data included herein are presented according to W. R. Grace & Co.'s practices current at the time of preparation hereof, are made available solely for the consideration, investigation and verification of the original recipients hereof and do not constitute a representation of warranty for which Grace assumes legal responsibility. It is the responsibility of a recipient of this data to remain currently informed on chemical hazard information, to design and update its own safety program and to comply with all national, federal, state, and local laws and regulations applicable to safety, occupational health, right to know and environmental protection.

Prepared by S. Morss

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