

MATERIAL SAFETY DATA SHEET

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Revised 2/02/04
Replaces 8/12/03
Printed 2/03/04

A-457

MSDS ID: 00110

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: A-457
PRODUCT DESCRIPTOR: COOLING TOWER BIOCIDES
MANUFACTURER: JOHNSON DIVERSEY, INC. EMERGENCY PHONE NUMBER: (800) 851-7145
3630 E. KEMPER ROAD
CINCINNATI, OH. 45241

II. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME(CAS NUMBER)	%	EXPOSURE LIMITS	UNITS
1-BROMO-3-CHLORO-5,5-DIMETHYLHYDANTOIN (126-06-7)	60	0.2	MG/M3
1,3-DICHLORO-5,5 DIMETHYLHYDANTOIN (118-52-5)	30	0.2	MG/M3
1,3-DICHLORO-5 ETHYL-5 METHYLHYDANTOIN (89415-87-2)	10	0.2	MG/M3

(RECOM. EXPOSURE LIMITS)

EPA REG. NO. 6836-115-8591

III. HAZARDS IDENTIFICATION

ROUTES OF ENTRY: INHALATION: YES
SKIN: YES
INGESTION: NO
SIGNS AND SYMPTOMS OF EXPOSURE:
ACUTE: IRRITATING TO SKIN AND EYES. HIGH CONCENTRATIONS CAN BE IRRITATING TO LUNGS.
CHRONIC: SAME AS ACUTE.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
Sensitive skin

IV. FIRST AID MEASURES

EYES: FLUSH THOROUGHLY WITH FRESH WATER FOR AT LEAST 15 MINUTES, GET MEDICAL ATTENTION.
SKIN: FLUSH WITH FRESH WATER, WASH WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHES AND SHOES. WASH FOR 15 MINUTES.
INGESTION: GIVE MILK OR WATER. DO NOT INDUCE VOMITING - GET MEDICAL ATTENTION. MONITOR FOR SHOCK.
INHALATION: REMOVE TO FRESH AIR AND SEEK MEDICAL ATTENTION.

V. FIRE FIGHTING MEASURES

FLASH POINT: NONE DEG F FLAME EXTENSION: N/A IN.
FLAMMABLE LIMITS IN AIR BY VOLUME: LEL: NONE UEL: NONE
UNUSUAL FIRE OR EXPLOSION HAZARDS: STRONG OXIDIZING AGENT.
EXTINGUISHING MEDIA: CO2, FOAM, DRY CHEMICALS

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V. FIRE FIGHTING MEASURES (Cont.)

FIRE FIGHTING INSTRUCTIONS: NOXIOUS GASES IN FIRE, FLOOD BURNING MATERIAL WITH LARGE AMOUNTS OF WATER. SELF-CONTAINED BREATHING IF MATERIAL IS BURNING.

VI. ACCIDENTAL RELEASE MEASURES

IF MATERIAL IS RELEASED OR SPILLED: DO NOT TOUCH SPILLED MATERIAL. TREAT WET SPILLS WITH NA BISULFITE OR NA THIOSULFATE AT PH >7. SHOVEL DRY SPILLS TO CLEAN, DRY CONT.

VII. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS: AVOID HEAT, DIRECT SUNLIGHT, BREATHING DUST. STORE IN COOL, DRY PLACE. KEEP CONTAINER CLOSED.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: CHEMICAL GOGGLES
PROTECTIVE GLOVES: RUBBER OR PLASTIC
RESPIRATORY PROTECTION: DUST TYPE 3M 8710 TYPE
OTHER PROTECTIVE CLOTHING/EQUIPMENT: IF NEEDED.
EXPOSURE GUIDELINES: SEE SECTION II FOR DETAILED INFORMATION.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILIING POINT (F): N/A SPECIFIC GRAVITY: 1.0000
VOLATILE BY VOLUME: <0.5 SOLUBILITY IN WATER: <1
VAPOR PRESSURE (MMHG): N/A AT C
APPEARANCE AND ODOR: BRIQUETTES; SLIGHT PUNGENT ODOR.

X. STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE
INCOMPATIBILITY WITH OTHER MATERIALS: ALKALIS, ACIDS, OXIDIZABLE MATERIALS, REDUCING AGENTS.
HAZARDOUS DECOMPOSITION PRODUCTS: HALOGEN GASES - CHLORINE, BROMINE, OXIDES OF CARBON AND NITROGEN
HAZARDOUS POLYMERIZATION: NONE

XI. TOXICOLOGICAL INFORMATION

NO DATA AVAILABLE

XII. ECOLOGICAL INFORMATION

NO DATA AVAILABLE

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XIII. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: USE UNTIL LESS THAN ONE INCH REMAINS IN CONTAINER, EMPTY CONTAINER. TRIPLE RINSE CONTAINER WITH WATER, ADD TO OPERATION. REMOVE OR DEFACE CONTAINER LABEL BEFORE SELLING OR DISPOSAL. DISPOSE SOLID WASTE PER 40 CFR 261.5 (RCRA).

XIV. TRANSPORT INFORMATION

HAZARDOUS MATERIALS DESCRIPTION/PROPER SHIPPING NAME:
Please refer to the Bill of Lading/receiving documents for up to date shipping information.

XV. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:

CERCLA/EPCRA:SECTION 313 TOXIC CHEMICALS:

NONE

LISTED CARCINOGEN: NONE

NTP: NO

IARC: NO

OSHA: NO

HMIS RATINGS: HEALTH: 3 FIRE: 1 REACTIVITY: 1

PERSONAL PROTECTIVE EQUIPMENT: D

STATE RIGHT-TO-KNOW INFORMATION:

1-BROMO-3 CHLORO-5,5-DIMETHYLHYDANTOIN - CAS #126-06-7

1,3-DICHLORO-5,5-DIMETHYLHYDANTOIN - CAS #118-52-5

1,3-DICHLORO-5-ETHYL-5-METHYLHYDANTOIN - CAS 89415-87-2

XVI. OTHER INFORMATION

THE INFORMATION IN THIS MSDS RELATES TO THIS SPECIFIC MATERIAL. IT MAY NOT BE VALID FOR THIS MATERIAL IF USED OTHER THAN AS RECOMMENDED BY DIVERSEY LEVER OR IN COMBINATION WITH OTHER MATERIALS. IT IS THE USER'S RESPONSIBILITY TO EVALUATE THE APPLICABILITY OF THIS INFORMATION FOR HIS PARTICULAR CONDITIONS OF STORAGE, HANDLING AND USE.