
MATERIAL SAFETY DATA SHEET

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Revised 2/02/04
Replaces 9/10/03
Printed 2/03/04

IWT-4B**MSDS ID: 05057**

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: IWT-4B
PRODUCT DESCRIPTOR: RADIATOR WATER TREATMENT
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
SODIUM NITRITE (7632-00-0)	<15	85 LD50	MG/KG
SODIUM BORATE (1303-96-4)	<10	TLV 5, PEL 10	MG/M3
SODIUM HYDROXIDE (1310-73-2)	<5	TLV C 2; PEL C 2	MG/M3
SODIUM METASILICATE (6834-92-0)	<10	NONE ESTABLISHED	

III. HAZARDS IDENTIFICATION

ROUTES OF ENTRY: INHALATION: YES
SKIN: NO
INGESTION: YES
SIGNS AND SYMPTOMS OF EXPOSURE:
ACUTE: CAUSES EYE IRRITATION. MAY CAUSE EYE DAMAGE. DUSTS ARE
RESPIRATORY IRRITANTS
CHRONIC: SAME AS ACUTE
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
SENSITIVE SKIN AND EYES

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. GET MEDICAL ATTENTION.
INGESTION: GIVE WATER, INDUCE VOMITING. GET MEDICAL ATTENTION. NEVER GIVE
ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
INHALATION: N/A; IN NORMAL OPERATION

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:		NONE KNOWN	
EXTINGUISHING MEDIA:		CO2, FOAM, DRY CHEMICALS	
FIRE FIGHTING INSTRUCTIONS:		WEAR PROTECTIVE GEAR AND SELF-CONTAINED BREATHING APPARATUS IN FIRE AREA.	

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VI. ACCIDENTAL RELEASE MEASURES

IF MATERIAL IS RELEASED OR SPILLED: Flush small amounts to drain; collect and return large amounts to container.

VII. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS: KEEP CONTAINER CLOSED. KEEP FROM FREEZING. IF FROZEN, RETURN TO PRODUCING PLANT. DO NOT PRESSURE CONTAINER TO EMPTY.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: FACE SHIELD WHEN HANDLING / EYE PROTECTION
PROTECTIVE GLOVES: NON-ABSORBENT
RESPIRATORY PROTECTION: NONE
OTHER PROTECTIVE CLOTHING/EQUIPMENT: WATER DELUGE SYSTEM
EXPOSURE GUIDELINES: SEE SECTION II FOR DETAILED INFORMATION.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (F): 215 SPECIFIC GRAVITY: 1.1950
VOLATILE BY VOLUME: 75 SOLUBILITY IN WATER: 100
VAPOR PRESSURE (MMHG): 17.5 AT 20 C
APPEARANCE AND ODOR: CLEAR PURPLE LIQUID, NO ODOR.

X. STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE
INCOMPATIBILITY WITH OTHER MATERIALS: CONCENTRATED MINERAL ACIDS
HAZARDOUS DECOMPOSITION PRODUCTS: SOME OXIDES OF NITROGEN AT HI TEMPS
W/INCOMPLETE COMBUSTION
HAZARDOUS POLYMERIZATION: NONE

XI. TOXICOLOGICAL INFORMATION

NO DATA AVAILABLE

XII. ECOLOGICAL INFORMATION

NO DATA AVAILABLE

XIII. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: USE UNTIL LESS THAN 1 INCH REMAINS IN CONTAINER, EMPTY CONTAINER TRIPLE RINSE WITH WATER, ADD TO OPERATION REMOVE OR DEFACE LABEL BEFORE SELLING CONTAINER OR DISPOSAL PH ADJUSTMENT; SEPARATION OF INSOLUBLES; NO PHOSPHATES.

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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:

THIS PRODUCT CONTAIN SODIUM NITRITE AT (7632-00-0) AT 11.5% WHICH IS SARA REPORTABLE. ALL CHEMICAL INGREDIENTS ARE LISTED ON THE TSCA INVENTORY.

LISTED CARCINOGEN: NONE

NTP: NO IARC: NO OSHA: NO

HMIS RATINGS: HEALTH: 3 FIRE: 0 REACTIVITY: 0

PERSONAL PROTECTIVE EQUIPMENT: D

STATE RIGHT-TO-KNOW INFORMATION:

SODIUM HYDROXIDE - CAS #1310-73-2

SODIUM NITRITE - CAS #7632-00-0

WATER - CAS #7732-18-5

SODIUM BORATE - CAS #1303-96-4

SODIUM METASILICATE - CAS #6834-92-0

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.