
MATERIAL SAFETY DATA SHEET

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

DUSHIELD 321

MSDS ID: 01806

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DUSHIELD 321
PRODUCT DESCRIPTOR: RETORT AND COOLING WATER ADDITIVE
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

NONE			

III. HAZARDS IDENTIFICATION

ROUTES OF ENTRY: INHALATION: NO
SKIN: NO
INGESTION: YES
SIGNS AND SYMPTOMS OF EXPOSURE:
ACUTE: MAY IRRITATE EYES
CHRONIC: SAME AS ACUTE
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
Sensitive skin

IV. FIRST AID MEASURES

EYES: FLUSH THOROUGHLY WITH FRESH WATER. GET MEDICAL ATTENTION.
SKIN: FLUSH WITH FRESH WATER, WASH WITH SOAP AND WATER. REMOVE
CONTAMINATED CLOTHES AND SHOES.
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:		NONE	

VI. ACCIDENTAL RELEASE MEASURES

IF MATERIAL IS RELEASED OR SPILLED: FLUSH SMALL AMOUNTS TO DRAIN. COLLECT AND
RETURN LARGE AMOUNTS TO CONTAINER.

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VII. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS: KEEP FROM FREEZING. KEEP BUNGS IN CONTAINER. STORE ABOVE 40F. DO NOT PRESSURE TO EMPTY.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: NONE
PROTECTIVE GLOVES: NONE
RESPIRATORY PROTECTION: NONE
OTHER PROTECTIVE CLOTHING/EQUIPMENT: NONE
EXPOSURE GUIDELINES: SEE SECTION II FOR DETAILED INFORMATION.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILIING POINT (F): 215 SPECIFIC GRAVITY: 1.0600
VOLATILE BY VOLUME: 80 SOLUBILITY IN WATER: 100
VAPOR PRESSURE (MMHG): 17.5 AT 20 C
APPEARANCE AND ODOR: CLEAR VISCOUS AMBER LIQUID; NO ODOR

X. STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE
INCOMPATIBILITY WITH OTHER MATERIALS: NONE
HAZARDOUS DECOMPOSITION PRODUCTS: CO, SO2 WITH INCOMPLETE COMBUSTION
HAZARDOUS POLYMERIZATION: NONE KNOWN

XI. TOXICOLOGICAL INFORMATION

NO DATA AVAILABLE

XII. ECOLOGICAL INFORMATION

NO DATA AVAILABLE

XIII. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: USE UNTIL LESS THAN ONE INCH REMAINS IN CONTAINER, EMPTV CONTAINER. REMOVE OR DEFACE LABEL BEFORE SELLING CONTAINER OR DISPOSAL.

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

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XV. REGULATORY INFORMATION (Cont.)

NTP: NO IARC: NO OSHA: NO
HMIS RATINGS: HEALTH: 1 FIRE: 0 REACTIVITY: 0
PERSONAL PROTECTIVE EQUIPMENT: A

STATE RIGHT-TO-KNOW INFORMATION:

MIXED SODIUM ALKYL METHYL NAPHTHALENE SULFONATE - CAS #26264-58-4

WATER - CAS #7732-18-5

BENZENESULFONIC ACID, DODECYL-, SODIUM SALT - CAS #25155-30-0

2-PROPENIC ACID, HOMOPOLYMER SODIUM SALT - CAS #9003-04-7

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.