
MATERIAL SAFETY DATA SHEET

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

DUFIX**MSDS ID: 01560**

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: DUFIX
PRODUCT DESCRIPTOR: ACID RINSE
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
CHROMIC ACID (1333-82-0)	<36	TLV 0.05; PEL C 0.1	PPM
PHOSPHORIC ACID (7664-38-2)	<11	TLV 1.0; PEL 1	MG/M3

III. HAZARDS IDENTIFICATION

ROUTES OF ENTRY: INHALATION: YES
SKIN: NO
INGESTION: YES
SIGNS AND SYMPTOMS OF EXPOSURE:
ACUTE: CAUSES BURNS TO SKIN AND EYES. MISTS ARE CORROSIVE TO
RESPIRATORY TRACT.
CHRONIC: LONG TERM EXPOSURE TO HIGH LEVELS OF CHROMIUM- CONTAINING
DUSTS HAS BEEN SHOWN TO CAUSE LUNG CANCER IN MAN. THE EXACT
COMPOUNDS WHICH CAUSE THIS RESPONSE ARE NOT KNOWN.
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.
INGESTION: GIVE WATER. DO NOT 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:		H2O, CO	
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: DO NOT ALLOW THIS PRODUCT TO EVAPORATE TO DRYNESS. USE DUST MASK IF PRODUCT HAS DRIED. CHRONIC OVEREXPOSURE TO CHROMIUM DUSTS CAN CAUSE CANCER RISK. COLLECT AND RETURN SPILLED MATERIAL TO CONTAINER. FLUSH AREA WITH WATER. COLLECT FOR DISPOSAL. PRODUCT R.Q. = 28 LBS. OR 2.4 GALS.

VII. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS: DO NOT PRESSURE CONTAINER TO EMPTY. STORE IN PROPER AREA FOR OXIDIZING MATERIALS. KEEP FROM FREEZING. USE ALL SAFETY EQUIPMENT AS OUTLINED IN SECTION 6.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: FACE SHIELD
PROTECTIVE GLOVES: RUBBER GLOVES
RESPIRATORY PROTECTION: WEAR NIOSH-APPROVED RESPIRATOR IF TLV/PEL LIMITS ARE LIKELY TO BE EXCEEDED.
OTHER PROTECTIVE CLOTHING/EQUIPMENT: APRON AND CLOTHING TO COVER SKIN. EYE WASH IN USE AREA.
EXPOSURE GUIDELINES: SEE SECTION II FOR DETAILED INFORMATION.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (F): 212 SPECIFIC GRAVITY: 1.4100
VOLATILE BY VOLUME: 50 SOLUBILITY IN WATER: 100
VAPOR PRESSURE (MMHG): 17.5 AT 20 C
APPEARANCE AND ODOR: RED-BROWN CLEAR LIQUID

X. STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE
INCOMPATIBILITY WITH OTHER MATERIALS: OXIDIZABLE MATERIALS, STRONG ALKALIS
HAZARDOUS DECOMPOSITION PRODUCTS: NOT KNOWN
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 ONE INCH REMAINS IN CONTAINER, EMPTY CONTAINER. HAVE RESIDUE HAULED BY QUALIFIED WASTE HAULER. REMOVE OR DEFACE LABEL BEFORE SELLING CONTAINER OR DISPOSAL. PH ADJUSTMENT; CONTAINS PHOSPHORUS; CONTAINS CR + 6.

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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 CONTAINS CHROMIC ACID, CAS #1333-82-0, AT 35.5% IN THE FORMULATION, WHICH IS REPORTABLE AS A CHROMIUM COMPOUND. PRODUCT ALSO CONTAINS PHOSPHORIC ACID, CAS #7664-38-2, AT 10.8%. ALL CHEMICAL INGREDIENTS ARE LISTED ON THE TSCA INVENTORY.

LISTED CARCINOGEN: YES - CHRONIC ACID

NTP: YES IARC: YES OSHA: YES

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

PERSONAL PROTECTIVE EQUIPMENT: D

STATE RIGHT-TO-KNOW INFORMATION:

CHROMIC ACID - CAS #1333-82-0

PHOSPHORIC ACID - CAS #7664-18-5

WATER - CAS #7732-18-5

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.