
MATERIAL SAFETY DATA SHEET

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

KOOL DURA GARD**MSDS ID: 01821**

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: KOOL DURA GARD
PRODUCT DESCRIPTOR: IRON PHOSPHATIZER
MANUFACTURER: JOHNSON DIVERSEY, INC.
3630 E. KEMPER ROAD
CINCINNATI, OH. 45241

EMERGENCY PHONE NUMBER: (800)851-7145

II. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT NAME(CAS NUMBER)	%	EXPOSURE LIMITS	UNITS
PHOSPHORIC ACID (7664-38-2)	<68	TLV 1; PEL 1; ST 3	MG/M3
AMMONIUM DIMOLYBDATE (27546-07-2)	<2	TLV 5; PEL 5	MG/M3
AMMONIUM BIFLUORIDE (1341-49-7)	3	PEL 2.5 AS FLUORIDE	PPM

III. HAZARDS IDENTIFICATION

ROUTES OF ENTRY: INHALATION: YES
SKIN: NO
INGESTION: YES

SIGNS AND SYMPTOMS OF EXPOSURE:

ACUTE: MISTS ARE CORROSIVE TO SKIN, EYES AND RESPIRATORY TRACT

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. REMOVE WETTED 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: LIQUID PRODUCES HYDROGEN IN CONTACT WITH METALS.

EXTINGUISHING MEDIA: FOAM, CO2

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: ABSORB SMALL AMOUNTS ON FLOOR DRY MATERIAL COLLECT AND RETURN LARGE AMOUNTS TO CONTAINER NEUTRALIZE WITH SODIUM BICARBONATE. REPORTABLE QUANTITY (R.Q.) OF PRODUCT: 7366 LBS. OR 582 GAL.

VII. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS: KEEP FROM FREEZING. KEEP CONTAINER CLOSED. IF FROZEN, THAW AND MIX TO MAKE USABLE. DO NOT PRESSURE CONTAINER TO EMPTY. WATER DELUGE SYSTEM.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: FACE SHIELD AND GOGGLES.
PROTECTIVE GLOVES: ACID RESISTANT
RESPIRATORY PROTECTION: NONE
OTHER PROTECTIVE CLOTHING/EQUIPMENT: BOOTS AND APRON WHEN HANDLING
CONCENTRATE. USE VENTILATION ADEQUATE SO
OPERATOR IS NOT BREATHING FUMES
CONSTANTLY
EXPOSURE GUIDELINES: SEE SECTION II FOR DETAILED INFORMATION.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (F): 215 SPECIFIC GRAVITY: 1.5000
VOLATILE BY VOLUME: 40 SOLUBILITY IN WATER: 100
VAPOR PRESSURE (MMHG): 17.5 AT 20 C
APPEARANCE AND ODOR: CLEAR LIQUID; MILD ODOR.

X. STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE
INCOMPATIBILITY WITH OTHER MATERIALS: CONCENTRATED ALKALINE PRODUCTS
HAZARDOUS DECOMPOSITION PRODUCTS: OXIDES OF PHOSPHORUS AT EXTREMELY HIGH
TEMPERATURES
HAZARDOUS POLYMERIZATION: NONE

XI. TOXICOLOGICAL INFORMATION

NO DATA AVAILABLE

XII. ECOLOGICAL INFORMATION

NO DATA AVAILABLE

XIII. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: PH ADJUSTMENT: CONTAINS PHOSPHATES. 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

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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:**

KOOL DURA GARD CONTAINS THESE SARA TITLE III SECTION 313 CHEMICALS AS
INGREDIENTS IN THE FOLLOWING CONCENTRATIONS: PHOSPHORIC ACID CAS
#7664-38-2 AT 68%.

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:****PHOSPHORIC ACID - CAS #7664-38-2****PROPYLENE GLYCOL ETHYLENE OXIDE - CAS #9003-11-6****AMMONIUM DIMOLYBDATE - CAS #27546-07-2****WATER - CAS #7732-18-5****AMMONIUM HYDROGEN FLUORIDE - CAS #1341-49-7**

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.