
MATERIAL SAFETY DATA SHEET

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

MINEGARD 25+

MSDS ID: 01218

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MINEGARD 25+
PRODUCT DESCRIPTOR: ACID MINE DRAINAGE 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 HYDROXIDE (1310-73-2)	<27	TLV C2; PEL C2	MG/M3
SODIUM PERMANGANATE (10101-50-5)	<.1		

III. HAZARDS IDENTIFICATION

ROUTES OF ENTRY: INHALATION: YES
SKIN: YES
INGESTION: YES
SIGNS AND SYMPTOMS OF EXPOSURE:
ACUTE: CAUSES BURNS TO EYES AND SKIN. HARMFUL OR FATAL IF SWALLOWED
OR INHALED. CONTACT WITH CONCENTRATE WILL CAUSE IRRITATION OF
RESPIRATORY TRACT AND SKIN IRRITATION.
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 FOR AT LEAST 15 MINUTES. REMOVE
CONTAMINATED CLOTHES AND SHOES. SEEK MEDICAL ATTENTION.
INGESTION: GIVE WATER. DO NOT INDUCE VOMITING. GET MEDICAL ATTENTION
IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONCIOUS
PERSON.
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: N/A	UEL: N/A
UNUSUAL FIRE OR EXPLOSION HAZARDS:		NONE KNOWN	
EXTINGUISHING MEDIA:		CO2, FOAM, WATER SPRAY	
FIRE FIGHTING INSTRUCTIONS:		FIREFIGHTERS SHOULD WEAR FULL PROTECTIVE CLOTHING, INCLUDING SELF CONTAINED BREATHING APPARATUS.	

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VI. ACCIDENTAL RELEASE MEASURES

IF MATERIAL IS RELEASED OR SPILLED: PROTECTIVE CLOTHING AND EQUIPMENT MUST BE WORN BY CLEAN-UP PERSONNEL. SMALL SPILLS MAY BE NEUTRALIZED WITH WEAK ACID SOLUTIONS AND FLUSHED WITH WATER. CONTAIN AND RETURN LARGE SPILLS TO CONTAINER. REPORTABLE QUANTITY (R.Q.) OF PRODUCT: 4,185 LBS. OR 395.2 GALS.

VII. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS: KEEP CONTAINER CLOSED. AVOID CONTACT WITH STRONG ACIDS AND WATER. AVOID BREATHING MIST OR VAPORS. WASH THOROUGHLY AFTER HANDLING. AVOID CONTACT WITH ALUMINUM, ZINC, TIN AND CHLORINE PRODUCTS.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: FACE SHIELD/GOGGLES
PROTECTIVE GLOVES: ALKALI RESISTANT
RESPIRATORY PROTECTION: IF PEL/TLV MAY BE EXCEEDED, USE A NIOSH APPROVED HIGH EFFICIENCY PARTICULATE FILTER.
OTHER PROTECTIVE CLOTHING/EQUIPMENT: WHEN HANDLING, WEAR CHEMICAL RESISTANT APRON AND BOOTS. EYEWASH AND SHOWER IN USE AREA.
EXPOSURE GUIDELINES: SEE SECTION II FOR DETAILED INFORMATION.

IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT (F): 232 SPECIFIC GRAVITY: 1.2800
VOLATILE BY VOLUME: 50 SOLUBILITY IN WATER: 100
VAPOR PRESSURE (MMHG): 17.5 AT 20 C
APPEARANCE AND ODOR: DARK BLUE/GREEN LIQUID

X. STABILITY AND REACTIVITY

CHEMICAL STABILITY: STABLE
INCOMPATIBILITY WITH OTHER MATERIALS: REACTS VIOLENTLY WITH WATER AND ACIDS WITH THE GENERATION OF HEAT.
HAZARDOUS DECOMPOSITION PRODUCTS: FLAMMABLE HYDROGEN GAS MAY BE GENERATED WHEN SODIUM HYDROXIDE REACTS WITH SOFT METALS.
HAZARDOUS POLYMERIZATION: NONE KNOWN

XI. TOXICOLOGICAL INFORMATION

NO DATA AVAILABLE

XII. ECOLOGICAL INFORMATION

NO DATA AVAILABLE

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XIII. DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: ADJUST PH. NEUTRALIZED WASTE OF NEAT PRODUCT IS COMPOSED OF SALT AND WATER. DISPOSE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. PH OF CONCENTRATE 12.9

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: 0 REACTIVITY: 1

PERSONAL PROTECTIVE EQUIPMENT: B

STATE RIGHT-TO-KNOW INFORMATION:

SODIUM HYDROXIDE (1310-73-2)

WATER - CAS #7732-18-5

SODIUM PERMANGANATE (10101-50-5)

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.