

MATERIAL SAFETY DATA SHEET

Page 1 of 4

Revised 2/02/04

Replaces 11/07/03

Printed 2/03/04

PERMA-GARD 3055 R1

MSDS ID: 11532

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: PERMA-GARD 3055 R1
Product Descriptor: ZINC PHOSPHATIZER
MANUFACTURER: JOHNSON DIVERSEY, INC.
3630 E. KEMPER ROAD
CINCINNATI, OH. 45241

EMERGENCY PHONE NUMBER: (800)851-7145

II. HAZARDOUS COMPONENTS

Component Name	CAS Number	%	Exposure Limits	Units
MANGANESE OXIDE	1344-43-0	1 - 5%	PEL(C) 5 TLV/TWA 0.2	MG/M3 MG/M3
NICKEL NITRATE	13138-45-9	5 - 15%	TWA 0.1 (soluble compound)	MG/M3
PHOSPHORIC ACID	7664-38-2	15 - 30%	TWA 1 STEL 3	MG/M3
ZINC OXIDE	1314-13-2	5 - 15%	5 (res) 10 (total dust)	MG/M3

III. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

DANGER. CORROSIVE. CAUSES EYE AND SKIN BURNS. HARMFUL OR FATAL IF SWALLOWED. HARMFUL IF ABSORBED THROUGH SKIN. HARMFUL IF INHALED. Causes liver, kidney, blood, and CNS effects.

POSSIBLE ROUTES OF ENTRY: Eye contact. Skin contact. Inhalation.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

ACUTE: EYES: Corrosive. May cause permanent damage including blindness.
SKIN: Corrosive. May cause permanent damage. INGESTION: Corrosive. May cause burns to mouth, throat and stomach.
INHALATION: May cause irritation and corrosive effects to nose, throat and respiratory tract.

CHRONIC: May cause allergic respiratory or skin reaction including dermatitis or sensitization. Ingredient(s) in this product can cause cancer. Cancer risk depends on duration and level of exposure.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: Individuals with chronic respiratory disorders such as asthma, chronic bronchitis or emphysema, etc., may be more susceptible to irritating effects.

TARGET ORGAN(S) OF CHEMICAL HAZARD(S): Eyes, skin, respiratory tract, and gastrointestinal tract.

PERMA-GARD 3055 R1

MSDS ID: 11532

IV. FIRST AID MEASURES

EYES: Immediately flush eyes with running water for at least 15 minutes keeping eyelids open. Get medical attention immediately.

SKIN: Flush immediately with plenty of water for at least 15 minutes. Get medical attention immediately.

INGESTION: Do not induce vomiting. Immediately drink one cupful of water or milk. Never give anything by mouth to an unconscious person. Get medical attention immediately.

INHALATION: If breathing is affected, remove to fresh air. Get medical attention immediately.

V. FIRE FIGHTING MEASURES

FLASH POINT (degrees F): NONE FLAME EXTENSION: N/A

FLAMMABLE LIMITS IN AIR BY VOLUME: LEL: N/E UEL: N/A

UNUSUAL FIRE OR EXPLOSIVE HAZARDS: Toxic fumes or vapor may form during fire. Liquid produces hydrogen on contact with soft, active metals.

EXTINGUISHING MEDIA: Water spray, CO2, foam or dry powder.

FIRE FIGHTING INSTRUCTIONS: Wear full protective gear and positive pressure breathing apparatus SCBA) in fire area.

SPECIAL INSTRUCTIONS: Spilled product may cause slippery surface and fall hazard.

VI. ACCIDENTAL RELEASE MEASURES

IF MATERIAL IS RELEASED OR SPILLED:

Contain spill. Wear protective clothing. Soak up or absorb liquid on suitable absorbent material. Collect and place in chemical waste container. Dispose of in accordance with local, State and Federal regulations. Flush spill area with water.

This product contains Phosphoric acid which is reportable under CERCLA. Spills that exceed 18,518 lbs. or 1663 gallons are reportable under CERCLA.

VII. HANDLING AND STORAGE

HANDLING AND STORAGE PRECAUTIONS: Avoid contact with eyes, skin and clothing. Do not taste or swallow. Avoid breathing vapors or spray mists. Use only with adequate ventilation. Remove and wash contaminated clothing and footwear before re-use. Wash thoroughly after handling. Product residue may remain on/in empty containers. All precautions for handling the product must be used in handling the empty container and residue. FOR COMMERCIAL & INDUSTRIAL USE ONLY. Keep container tightly closed. Protect from freezing. Store in a dry, cool and well-ventilated area. KEEP OUT OF REACH OF CHILDREN.

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: Chemical splash goggles.

PROTECTIVE GLOVES: Chemical resistant gloves. Includes: Neoprene gloves.

RESPIRATORY PROTECTION: If mists/vapors are not adequately controlled by ventilation, use appropriate respiratory protection to avoid over exposure. A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI

PERMA-GARD 3055 R1

MSDS ID: 11532

VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION (Cont.)

Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

OTHER PROTECTIVE CLOTHING/EQUIPMENT: If major exposure is possible, wear suitable protective clothing and footwear.

ENGINEERING CONTROLS:

VENTILATION: Good general ventilation should be sufficient to control airborne levels. Respiratory protection is not required if good ventilation is maintained.

IX. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Clear green liquid, mild odor.

BOILING POINT (DEG F): 210

FREEZING POINT: 32 F

SPECIFIC GRAVITY/BULK DENSITY: 1.377

pH: 1.3

pH 1% SOLUTION: 3

VOLATILE BY VOLUME: 51.5

SOLUBILITY IN WATER: Soluble

VAPOR PRESSURE(mmHg): 17.5 at 20 C

VAPOR DENSITY: 17.3

X. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Product stable.

INCOMPATIBILITY WITH OTHER MATERIALS: Oxidizing agents; Alkalies

HAZARDOUS DECOMPOSITION PRODUCTS: Incomplete combustion forms; oxides of nitrogen; oxides of phosphorus

HAZARDOUS POLYMERIZATION: None known.

XI. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL TESTING: Toxicological testing has not been performed on the product. Listed below is the available toxicology test data for components of the product.

TOXICITY TEST DATA:

Phosphoric Acid:

Acute Oral LD50 (rat) - 1530 mg/kg (RTECS)

Acute Skin LD50 (rabbit) - 2740 mg/kg (RTECS)

NICKEL NITRATE HEXAHYDRATE:

Acute Oral LD50 (rat) - 1620 mg/kg

Nickel Nitrate hexahydrate is carcinogenic to humans according to the IARC.

XII. ECOLOGICAL INFORMATION

Toxicological testing has not been performed on the product. Listed below is the available toxicology test data for components of the product.

ECOTOXICITY TEST DATA:

Phosphoric Acid:

TLm (48-96 hr.) (Gambusia affinis) 138 mg/l

ENVIRONMENTAL FATE: No data available.

MATERIAL SAFETY DATA SHEET

Page 4 of 4
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XIII. DISPOSAL CONSIDERATIONS

RCRA REGULATED: Concentrated product is considered to be D002-Corrosive, if declared Hazardous Waste.

Dispose in accordance with Federal, State and Local regulations.

XIV. TRANSPORT INFORMATION

Please refer to the Bill of Lading/receiving documents for up to date shipping information.

XV. REGULATORY INFORMATION

U.S. Federal Regulations:

TSCA: All ingredients in this product are on TSCA inventory.

HAPS: Contains Manganese compounds at 1.6% and Nickel compounds at 7.5% which are Hazardous Air Pollutants.

VOC CONTENT (EPA Method 24A): % VOC: 0 Lb/Gal VOC: 0

CERCLA/EPCRA:

Section 313 Toxic Chemicals:

Contains Nickel compounds at 7.5%, Manganese compounds at 1.6%, and Zinc compounds at 7.0% which are SARA Reportable.

SARA Section 311/312:

ACUTE:YES CHRONIC:YES FIRE:NO REACTIVITY:NO

SUDDEN RELEASE OF PRESSURE:NO

LISTED CARCINOGEN: None

NTP: Yes IARC: Yes OSHA: No

HMIS RATINGS: HEALTH: 3 FIRE: 0 REACTIVITY: 1

PERSONAL PROTECTIVE EQUIPMENT: D

NFPA RATING: HEALTH: 3 FIRE: 0 REACTIVITY:1 SPECIAL:ACID

STATE RIGHT-TO-KNOW INFORMATION:

WATER - CAS# 7732-18-5

PHOSPHORIC ACID - CAS# 7664-38-2

NICKEL NITRATE - CAS# 13138-45-9

MANGANESE OXIDE - CAS# 1344-43-0

ZINC OXIDE - CAS# 1314-13-2

CALIFORNIA PROPOSITION 65:

None of the ingredients are on the California proposition 65 list.

XVI. OTHER INFORMATION

Disclaimer: The information contained in this material safety data sheet is based on the knowledge of this specific product and current national legislation. It applies to the product as sold, use dilutions may be less hazardous. It may not be valid for this material if used in combination with any other materials or in a process. It is the user's responsibility to evaluate the handling, and use.