

MATERIAL SAFETY DATA SHEET



PERMA-GARD 3096

HMIS		NFPA	Personal protective equipment	
Health	2	2		
Fire Hazard	0	0		
Reactivity	0	0		

Version Number: 1

Preparation date: 2005-05-12

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: PERMA-GARD 3096
MSDS #: 11552_HX
Product code: 11552470, 11552330
Recommended use: Zinc Phosphatizer.

Manufacturer, importer, supplier:

JohnsonDiversey, Inc.
 3630 E. Kemper Rd.
 Cincinnati, OH 45241
 Phone: 1-800-438-2647

Canadian Headquarters
 JohnsonDiversey - Canada, Inc.
 2401 Bristol Circle
 Oakville, Ontario L6H 6P1
 Phone: 1-800-668-3131

Emergency telephone number: 1-800-851-7145 (Prosar); 1-651-917-6133 (Int'l Prosar); 01-800-710-3400 (México)

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

WARNING. CAUSES EYE AND SKIN IRRITATION. HARMFUL IF SWALLOWED OR ABSORBED THROUGH SKIN . HARMFUL IF INHALED .

Principle routes of exposure: Eyes. Skin. Inhalation. Ingestion. Skin Absorption.
Skin contact: Severe skin irritation. Skin contact may cause allergic reactions in some individuals .
Eye contact: Severe eye irritation.
Inhalation: May be irritating to nose, throat, and respiratory tract.
Ingestion: May be irritating to mouth, throat and stomach. Ingestion of large amounts may cause poisoning. Symptoms include: methemoglobinemia, cyanosis (blue skin), marked fall in blood pressure, leading to collapse, coma and possibly death.

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

Ingredient	CAS #	Weight %	LD50 Oral	LD50 Dermal	LC50 Inhalation
Nickel nitrate	13138-45-9	0.1 - 1.5%	1620 mg/kg (rat)	Not available	Not available
Phosphoric acid	7664-38-2	10 - 20%	1.25 g/kg (rat)	2740 mg/kg (rabbit)	25.5 mg/m ³ (rat)

4. FIRST AID MEASURES

Eye contact: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical attention.
Skin contact: Flush immediately with plenty of water for at least 15 minutes. Get medical attention.
Inhalation: If breathing is affected, remove to fresh air. Get medical attention.
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.
Aggravated Medical Conditions: Individuals with chronic respiratory disorders such as asthma, chronic bronchitis, emphysema, etc., may be more susceptible to irritating effects .

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, water spray, foam, carbon dioxide.
Specific hazards: Thermal decomposition can lead to release of irritating gases and vapors.

Unusual hazards: None known
Specific methods: No special methods required

Special protective equipment for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

Extinguishing media which must not be used for safety reasons: No information available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Use personal protective equipment
Environmental precautions and clean-up methods: Clean-up methods - large spillage. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Use a water rinse for final clean-up.

7. HANDLING AND STORAGE

Handling:

Avoid contact with skin, eyes and clothing. Do not taste or swallow. 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.

Storage:

Keep this product dry in original tightly closed container when not in use . Protect from freezing . Keep out of the reach of children.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures to reduce exposure:

Good general ventilation should be sufficient to control airborne levels .

Personal Protective Equipment

Eye protection: Safety glasses.
Hand protection: Chemical resistant gloves.
Skin and body protection: If major exposure is possible, wear suitable protective clothing and footwear.
Respiratory protection: If aerosols, mists, or 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 Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Hygiene measures: Handle in accordance with good industrial hygiene and safety practice

Ingredient	CAS #	ACGIH	OSHA	Mexico
Nickel nitrate	13138-45-9		1 mg/m ³ Ni	0.1 mg/m ³ (TWA) 0.3 mg/m ³ (STEL)
Phosphoric acid	7664-38-2	3 mg/m ³ (STEL)	1 mg/m ³	1 mg/m ³ (TWA) 3 mg/m ³ (STEL)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Liquid	Appearance:	Aqueous solution
Color:	Clear Green	Boiling point/range:	Not determined
Odor:	No information available	Melting point/range:	Not determined
Specific gravity:	1.467	pH:	<1.5
Dilution pH:	2.2 (1%)	Density:	No information available
Bulk density:	No information available	Decomposition temperature:	Not determined
Vapor density:	No information available	Autoignition temperature:	No information available
Evaporation rate:	No information available	Solubility:	Soluble
Solubility in other solvents:	No information available	VOC:	0%
Viscosity:	No information available	Flash point:	Not applicable
Partition coefficient (n-octanol/water):	No information available		

10. STABILITY AND REACTIVITY

Stability: The product is stable
Polymerization: Hazardous polymerisation does not occur
Hazardous decomposition products: Nitrogen oxides (NOx) . Oxides of phosphorus .
Materials to avoid: Incompatible with bases. Do not mix with chlorinated products .

11. TOXICOLOGICAL INFORMATION

Acute toxicity
Component Information: Oral, LD50 estimated to be greater than 5000 mg/kg, Causes liver, kidney, blood ,and CNS effects . See Section 3
Chronic toxicity: May cause allergic respiratory and skin reaction . Can cause cancer . Cancer risk depends on duration and level of exposure .

Specific effects

Carcinogenic effects: None known
Mutagenic effects: None known
Reproductive toxicity: None known
Target organ effects: Nickel is toxic to the lung, liver, and kidney .

HAZARDOUS COMPONENTS

Ingredient	CAS #	NTP	IARC	OSHA
Nickel nitrate	13138-45-9	Listed.	Listed.	

12. ECOLOGICAL INFORMATION

Environmental Information: When used for its intended purpose this product should not cause adverse effects in the environment

13. DISPOSAL CONSIDERATIONS**Waste from residues / unused products:**

Dispose of according to all federal, state and local applicable regulations . Undiluted product is regulated under environmental and transportation laws as a corrosive waste .

RCRA Hazard Class: D002

14. TRANSPORT INFORMATION

DOT/TDG: Please refer to the Bill of Lading/receiving documents for up to date shipping information

15. REGULATORY INFORMATION**International Inventories**

All components of this product are listed on the following inventories: U.S.A. (TSCA), Canada (DSL/NDSL), Australia (AICS), Japan (ENCS), Philippines (PICCS), China (IECSC).

U.S. Regulations

California Proposition 65: This product contains materials listed under California's Proposition 65.

STATE RIGHT TO KNOW

Ingredient	CAS #	MARTK:	NJRTK:	PARTK:	RIRTK:	ILRTK:	CTRTK:
Zinc nitrate	7779-88-6	Listed	-	Listed	-	Listed	Listed
Calcium nitrate	13477-34-4	-	-	-	-	-	-
Zinc phosphate	7779-90-0	-	-	-	-	-	Listed
Nickel nitrate	13138-45-9	Listed	-	Listed	Listed	Listed	Listed
Water	7732-18-5	-	-	-	-	-	-
Phosphoric acid	7664-38-2	Listed	Listed	Listed	Listed	Listed	Listed

CERCLA / SARA

Ingredient	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Zinc nitrate	7779-88-6	1 - 5%	1000		Listed.
Calcium nitrate	13477-34-4	20 - 30%			Listed.
Nickel nitrate	13138-45-9	0.1 - 1.5%	100		Listed.
Phosphoric acid	7664-38-2	10 - 20%	5000		

Ingredient	CAA HAP	CAA ODS	CWA Priority Pollutants
Zinc nitrate			Listed.
Nickel nitrate	Listed.		Listed.

SARA 311/312 Hazard Categories

Immediate: Y
Delayed: Y
Fire: N
Reactivity: N
Sudden Release of Pressure: N

Canada

WHMIS hazard class: E Corrosive material , D2A Very toxic materials , D2B Toxic materials .



Ingredient	CAS #	NPRI
Zinc nitrate	7779-88-6	Listed

Nickel nitrate	13138-45-9	Listed
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16. OTHER INFORMATION

Reason for revision:

Not applicable

Prepared by:

NAPRAC

Additional advice:

None

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