### MATERIAL SAFETY DATA SHEET



## RESTORE

HMIS NFPA			Personal protective equipment		
Health	3	3	INI. A		
Fire Hazard	0	0			
Reactivity	0	0			
1/ : 1/ /			D		

Version Number: 4 Preparation date: 2005-04-12

# 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: RESTORE

MSDS #: 11626\_HX

Product code: 11626330, 11626470
Recommended use: Alkaline Cleaner.

Manufacturer, importer, supplier:

JohnsonDiversey, Inc.

3630 E. Kemper Rd.

JohnsonDiversey - Canada, Inc.

 Cincinnati, OH 45241
 2401 Bristol Circle

 Phone: 1-800-438-2647
 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

DANGER. Corrosive to eyes and skin. CAUSES EYE AND SKIN BURNS. HARMFUL OR FATAL IF SWALLOWED. Do not taste or swallow. HARMFUL IF INHALED. May cause respiratory tract irritation.

Principle routes of exposure: Eyes. Skin. Inhalation.

**Skin contact:** Corrosive. May cause permanent damage.

Eye contact: Corrosive. Causes permanent eye damage, including blindness.

**Inhalation:** May cause irritation and corrosive effects to nose, throat and respiratory tract.

**Ingestion:** Corrosive. Causes burns to mouth, throat and stomach.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### HAZARDOUS COMPONENTS

Ingredient		CAS#	Weight %	LD50 Oral	LD50 Dermal	LC50 Inhalation				
	Sodium hydroxide	1310-73-2	1 - 5%	140 mg/kg (rat)	Not available	Not available				

### 4. FIRST AID MEASURES

Eye contact: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Get medical

attention immediately.

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

Inhalation: If breathing is affected, remove to fresh air. 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.

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:

Unusual hazards:

Not applicable
None known

Specific methods: No special methods required

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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. Prevent product from entering drains. 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. Avoid breathing vapors or 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 AND INDUSTRIAL USE ONLY.

Keep tightly closed in a dry, cool and well-ventilated place. 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:** Chemical splash goggles. **Hand protection:** Chemical resistant gloves.

**Skin and body protection:** Long sleeved clothing. Chemical resistant apron. Protective footwear.

Respiratory protection:

No special requirements under normal use conditions. In case of insufficient ventilation wear suitable

respiratory equipment. 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	
Sodium hydroxide	1310-73-2	2 mg/m³ (Ceiling)	2 mg/m³	2 mg/m³ (Ceiling)	

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:LiquidAppearance:Aqueous solutionColor:Clear AmberBoiling point/range:Not determinedOdor:No information availableMelting point/range:Not determined

Specific gravity: 1.1 pH: 13.5

Dilution pH:11.9 (1%)Density:No information availableBulk density:No information availableDecomposition temperature:Not determinedVapor density:No information availableAutoignition temperature:No information available

Vapor density:No information availableAutoignition temperature:Evaporation rate:No information availableSolubility:Solubility:Solubility in otherNo information availableVOC:0%

**Solubility in other** No information available **solvents:** 

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 decomposition products:
Hazardous polymerisation does not occur
Oxides of carbon . Nitrogen oxides (NOx) .
Incompatible with acids. Strong oxidising agents.

### 11. TOXICOLOGICAL INFORMATION

Acute toxicity Corrosive , Oral, LD50 estimated to be between 2000 - 3000 mg/kg.

Component Information: See Section 3

Chronic toxicity: None known

Specific effects

 Carcinogenic effects:
 None known

 Mutagenic effects:
 None known

 Reproductive toxicity:
 None known

 Target organ effects:
 None known

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## 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:

Use up contents if possible before disposal. 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: Korea (ECL).

#### **U.S. Regulations**

California Proposition 65: This product is not subject to the reporting requirements under California's Proposition 65.

#### STATE RIGHT TO KNOW

Ingredient	CAS#	MARTK:	NJRTK:	PARTK:	RIRTK:	ILRTK:	CTRTK:
Water	7732-18-5	-	-	-	-	-	-
Sodium hydroxide	1310-73-2	Listed	Listed	Listed	Listed	Listed	Listed
Sodium silicate	1344-09-8	-	-	-	-	-	-
Tetrasodium salt of EDTA	64-02-8	-	-	-	-	-	-

### **CERCLA / SARA**

Г	Ingredient	CAS#	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
	Sodium hydroxide	1310-73-2	1 - 5%	1000		

# CAA HAP/CAA ODS/CWA Priority Pollutants: None

SARA 311/312 Hazard Categories

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

Canada

WHMIS hazard class: E Corrosive material .



# **16. OTHER INFORMATION**

Reason for revision:
Prepared by:
Additional advice:
Not applicable
NAPRAC
None

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