

Refrane (SUMA)

HMIS		NFPA	Personal protective equipment		
Health	3	3	  		
Fire Hazard	0	0			
Reactivity	0	0			

Version Number: 2

Preparation date: 2004-07-14

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Refrane (SUMA)
MSDS #: F-00564002
Product code: 3365363
Recommended use: Cleaning product.

Manufacturer, importer, supplier:
 US Headquarters: Canadian Headquarters
 JohnsonDiversey, Inc. JohnsonDiversey - Canada, Inc.
 8310 16th St. 2401 Bristol Circle
 Sturtevant, Wisconsin 53177-0902 Oakville, Ontario L6H 6P1
 Phone: 1-888-352-2249 Phone: 1-800-668-3131
 MSDS Internet Address:
 www.johnsondiversev.com

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 . CAUSES SEVERE EYE, SKIN AND DIGESTIVE TRACT BURNS. HARMFUL OR FATAL IF SWALLOWED .

Principle routes of exposure: Eyes. Skin. Inhalation. Ingestion.
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: Causes burns to mouth, throat and stomach. .

3. COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS COMPONENTS

Ingredient	CAS #	Weight %	LD50 Oral	LD50 Dermal	LC50 Inhalation
Sodium metasilicate pentahydrate	6834-92-0	10 - 20%	1153 mg/kg (rat)	Not available	Not available
Sulfuric acid	7664-93-9	< 0.1%	Not available	Not available	Not available
Sodium carbonate	497-19-8	20 - 30%	4090 mg/kg (rat)	Not available	2300 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 immediately .
Skin contact: Flush immediately with plenty of water for at least 15 minutes . Immediately get medical attention .
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 .
Notes to physician: Treat symptomatically.
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: The product is not flammable. Dry chemical, water spray, foam, carbon dioxide .
Specific hazards: None known .
Unusual hazards: Corrosive material (See sections 8 and 10).
Specific methods: No special methods required .
Autoignition temperature: No information available.

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: None.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Put on appropriate personal protective equipment (see Section 8.) .
Environmental precautions and clean-up methods: Sweep up and shovel into suitable containers for disposal. 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 . Do not breathe dust. 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 .
Storage:
Keep tightly closed in a dry, cool and well-ventilated place. 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 . Respiratory protection is not required if good ventilation is maintained .

Personal Protective Equipment

Eye protection: Chemical splash goggles .
Hand protection: Chemical resistant gloves . Includes . rubber gloves.
Skin and body protection: If major exposure is possible, wear suitable protective clothing and footwear .
Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment.
Hygiene measures: Avoid contact with skin, eyes and clothing . Handle in accordance with good industrial hygiene and safety practice .

Ingredient	CAS #	ACGIH	OSHA	Mexico
Sulfuric acid	7664-93-9	0.2 mg/m ³ (TWA)	1 mg/m ³ (TWA)	

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid	Appearance:	Powder
Color:	Blue	Boiling point/range:	Not determined
Odor:	Floral	Melting point/range:	Not determined
Specific gravity:	No information available	pH:	No information available
Dilution pH:	11.7 @ 1%	Density:	1.15g/ml
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:	<0.1%
Viscosity:	No information available	Flash point:	Not applicable
Partition coefficient (n-octanol/water):	No information available		

10. STABILITY AND REACTIVITY

Stability: Stable at normal conditions.
Polymerization: Hazardous polymerisation does not occur.
Hazardous decomposition products: None reasonably foreseeable
Materials to avoid: Acids.
Conditions to avoid: No special storage conditions required.

11. TOXICOLOGICAL INFORMATION

Acute toxicity ORAL , LD50 estimated to be between 2000 - 3000 mg/kg , DERMAL , LD50 estimated to be > 2000 mg/kg .
Component Information: See Section 3
Chronic toxicity: Not determined
Specific effects
Carcinogenic effects: No information available.
Mutagenic effects: No information available
Reproductive toxicity: No information available
Target organ effects: No information available

12. ECOLOGICAL INFORMATION

Environmental Information: no data available.

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Undiluted product is regulated under environmental and transportation laws as a corrosive waste . Do not re-use empty containers. Dispose of according to all federal, state and local applicable regulations .

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), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (ECL), Japan (ENCS), Philippines (PICCS), China (IECSC).

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:
Sodium metasilicate pentahydrate	6834-92-0	-	-	-	-	-	-
Sodium chloride	7647-14-5	-	-	-	-	-	-
Alcohol ethoxylate	68002-97-1	-	-	-	-	-	-
Sodium carbonate	497-19-8	-	-	-	-	-	-
Sodium tripolyphosphate	7758-29-4	Listed	Listed	Listed	-	-	Listed

CERCLA / SARA

Ingredient	CAS #	Weight %	RQ	Section 302/TPQs	Section 313
Sodium tripolyphosphate	7758-29-4	10 - 20%	5000 LBS		

Canada

WHMIS hazard class: E Corrosive material .



16. OTHER INFORMATION

Reason for revision: Not applicable

Prepared by: NAPRAC

Additional advice: None

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