

MATERIAL SAFETY DATA SHEET



DICATRETE

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

Version Number: 1

Preparation date: 2004-09-21

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: DICATRETE

MSDS #: 11595_HX

Product code: 01111079, 11595100

Recommended use: Cooling Water Treatment.

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	Johnson Diversey México S.A. de C.V. Av. Henry Ford No. 12 Fracc. Industrial San Nicolás C.P. 54030 Tlalnepantla, Estado de México
--	--	---

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 skin and eye burns. HARMFUL OR FATAL IF SWALLOWED. 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.

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
Sulfuric acid	7664-93-9	40 - 50%	2140 mg/kg (rat)	Not available	510 mg/m ³ /2H (rat)
Zinc sulfate	7733-02-0	1 - 5%	2 g/kg (rabbit)	Not available	Not available

4. FIRST AID MEASURES

Eye contact: Rinse with plenty of water. If irritation persists, get medical attention. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.

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: Not applicable

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: The product is not flammable. Wear self contained breathing apparatus for fire fighting if necessary.
Extinguishing media which must not be used for safety reasons: No information available

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Ensure adequate ventilation. Use personal protective equipment. Put on appropriate personal protective equipment (see Section 8.).
Environmental precautions and clean-up methods: Use appropriate containment to avoid environmental contamination. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Sweep up and shovel into suitable containers for disposal.

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.
Storage:
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 . Respiratory protection is not required if good ventilation is maintained . In case of insufficient ventilation wear suitable respiratory equipment..

Personal Protective Equipment

Eye protection: Chemical splash goggles.
Hand protection: Chemical resistant gloves. Includes. neoprene 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: Handle in accordance with good industrial hygiene and safety practice . Avoid contact with skin, eyes and clothing . Wash hands before breaks and immediately after handling the product .

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:	Liquid	Appearance:	Liquid
Color:	Colourless	Boiling point/range:	>212 (°F)>100 (°C)
Odor:	Slight	Melting point/range:	Not determined
Specific gravity:	1.34	pH:	<1
Dilution pH:	<1	Density:	No information available
Bulk density:	No information available	Decomposition temperature:	Not determined
Vapor density:	No information available	Autoignition temperature:	No information available
Vapor pressure:	17.5	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: None reasonably foreseeable
Materials to avoid: Strong bases. Do not mix with chlorinated products .
Conditions to avoid: Stable at normal conditions.

11. TOXICOLOGICAL INFORMATION

Component Information: See Section 3
Chronic toxicity: Not determined.

Specific effects

Carcinogenic effects:	None known
Mutagenic effects:	None known
Reproductive toxicity:	None known
Target organ effects:	None known

HAZARDOUS COMPONENTS

Ingredient	CAS #	NTP	IARC	OSHA
Sulfuric acid	7664-93-9	Listed.	1 Human carcinogen.	

12. ECOLOGICAL INFORMATION

Environmental Information: Must not reach sewage water or drainage ditch undiluted or unneutralized .

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

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

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/NDL), Europe (EINECS/ELINCS/NLP), Australia (AICS), Korea (ECL), 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:
Sulfuric acid	7664-93-9	Listed	Listed	Listed	Listed	Listed	Listed
Water	7732-18-5	-	-	-	-	-	-
Zinc sulfate	7733-02-0	Listed	-	Listed	-	Listed	Listed

CERCLA / SARA

Ingredient	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Sulfuric acid	7664-93-9	40 - 50%	1000	1000	Listed.
Zinc sulfate	7733-02-0	1 - 5%	1000		Listed.

Ingredient	CAA HAP	CAA ODS	CWA Priority Pollutants
Zinc sulfate			Listed.

Canada

WHMIS hazard class: E Corrosive material .



Ingredient	CAS #	NPRI
Sulfuric acid	7664-93-9	Listed
Zinc sulfate	7733-02-0	Listed

16. OTHER INFORMATION

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

Notice to Reader: This document has been prepared using data from sources considered technically reliable. It does not constitute a warranty, express or implied, as to the accuracy of the information contained within. Actual conditions of use and handling are beyond seller's control. User is responsible to evaluate all available information when using product for any particular use and to comply with all Federal, State, Provincial and Local laws and regulations.