

MATERIAL SAFETY DATA SHEET



D.F.C.

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

Version Number: 1

Preparation date: 2004-10-14

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: D.F.C.

MSDS #: 2694084500

Product code: 0845024, 2694084500

Recommended use: Manual Milking Equipment Cleaner .

Manufacturer, importer, supplier:

US Headquarters JohnsonDiversey, Inc. 8310 16th St. Sturtevant, Wisconsin 53177-0902 Phone: 1-888-352-2249 MSDS Internet Address: www.johnsondiversey.com	Canadian Headquarters JohnsonDiversey - Canada, Inc. 2401 Bristol Circle Oakville, Ontario L6H 6P1 Phone: 1-800-668-3131
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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 eye burns. Severe skin irritation.

Principle routes of exposure: Eyes. Skin. Inhalation.

Skin contact: Severe skin irritation.

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

Inhalation: May cause respiratory tract irritation .

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
Phosphoric acid	7664-38-2	5 - 10%	1.25 g/kg (rat)	2740 mg/kg (rabbit)	25.5 mg/m ³ (rat)
Sodium carbonate	497-19-8	5 - 10%	4090 mg/kg (rat)	Not available	Not available
Sodium hydroxide	1310-73-2	5 - 10%	140 mg/kg (rat)	Not available	Not available
Sodium hypochlorite	7681-52-9	1 - 5%	5800 mg/kg (mouse)	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.

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: Persons with pre-existing skin disorders may be more susceptible to irritating effects

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO₂, water spray or "alcohol" foam.

Specific hazards: Not applicable

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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: Prevent product from entering drains. 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. Use only with adequate ventilation. Do not breathe dust. Wash thoroughly after handling. Do not taste or swallow. Remove and wash contaminated clothing before re-use. 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:

Use only in well-ventilated areas . 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: Safety goggles.
Hand protection: Chemical resistant gloves. Includes. rubber gloves. 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. 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
Phosphoric acid	7664-38-2	3 mg/m ³ (STEL) 1 mg/m ³ (TWA)	1 mg/m ³ (TWA) 3 mg/m ³ (STEL)	1 mg/m ³ (TWA) 3 mg/m ³ (STEL)
Sodium hydroxide	1310-73-2	2 mg/m ³ (Ceiling)	2 mg/m ³ (CEILING)	2 mg/m ³ (Ceiling)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Powder	Appearance:	Powder
Color:	White	Boiling point/range:	Not determined
Odor:	Chlorine	Melting point/range:	Not determined
Specific gravity:	1.100 g/cc	pH:	No information available
Dilution pH:	No information available	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:	Solubility:
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: Chlorine.
Materials to avoid: Acids. Ammonia. Ammonium salts.

11. TOXICOLOGICAL INFORMATION

Acute toxicity Corrosive , Oral, LD50 estimated to be between 200 - 2000 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

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

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), 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:
Water	7732-18-5	-	-	-	-	-	-
Phosphoric acid	7664-38-2	Listed	Listed	Listed	Listed	Listed	Listed
Sodium carbonate	497-19-8	-	-	-	-	-	-
Sodium hydroxide	1310-73-2	Listed	Listed	Listed	Listed	Listed	Listed
Sodium hypochlorite	7681-52-9	Listed	Listed	Listed	-	-	Listed

CERCLA / SARA

Ingredient	CAS #	Weight %	CERCLA/SARA RQ (lbs)	Section 302 TPQ (lbs)	Section 313
Phosphoric acid	7664-38-2	5 - 10%	5000		
Sodium hydroxide	1310-73-2	5 - 10%	1000		
Sodium hypochlorite	7681-52-9	1 - 5%	100		

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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