



DUBOIS 200

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

Version Number: 1

Preparation date: 2005-09-26

1. PRODUCT AND COMPANY IDENTIFICATION

Product name: DUBOIS 200

MSDS #: 01390_HX

Product code: 4551205, 01390010, 01390104, 01390133, 01390159, 01390330, 01390470, 01390489, 01390502, 01390620, 01390696, 01390700

Recommended use: Corrosion Inhibitor.

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

DANGER. CORROSIVE. CAUSES EYE BURNS . MAY CAUSE SKIN IRRITATION . HARMFUL OR FATAL IF SWALLOWED.

Principle routes of exposure: Skin contact. Eye contact. Inhalation.

Skin contact: Moderately irritating to the skin.

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
Monoethanolamine borate	10377-81-8	10 - 20%	1580 mg/kg (rat)	Not available	Not available
Monoethanolamine	141-43-5	1 - 5%	1720 mg/kg (rat)	1 mL/kg (rabbit)	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. If irritation persists, 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.

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: 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: Put on appropriate personal protective equipment (see Section 8.). Contaminated surfaces will be extremely slippery.

Environmental precautions and clean-up methods: Clean-up methods - large spillage. Prevent product from entering drains. Soak up with inert absorbent material. 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. 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:

Protect from freezing . 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.

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: 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
Monoethanolamine borate	10377-81-8	6 mg/m ³ (STEL) 2 mg/m ³ (TWA)		
Monoethanolamine	141-43-5	6 ppm (STEL) 3 ppm (TWA)	6 mg/m ³ 3 ppm	15 mg/m ³ (STEL) 8 mg/m ³ (TWA)

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Color: Clear Green

Odor: No information available

Specific gravity: 1.047

Dilution pH: 9 (1%)

Bulk density: No information available

Vapor density: No information available

Evaporation rate: No information available

Solubility in other solvents: No information available

Viscosity: No information available

Partition coefficient (n-octanol/water): No information available

Appearance: Aqueous solution

Boiling point/range: 195 (°F)90.6 (°C)

Melting point/range: Not determined

pH: 10.5

Density: No information available.

Decomposition temperature: Not determined

Autoignition temperature: No information available

Solubility: Soluble

VOC: 4.95%

Flash point: >200 (°F) >93.3 (°C)

10. STABILITY AND REACTIVITY

Stability: The product is stable

Polymerization: Hazardous polymerisation does not occur.

Hazardous decomposition products: None reasonably foreseeable.

Materials to avoid: Acids. Do not mix with chlorinated products .

11. TOXICOLOGICAL INFORMATION

Acute toxicity Corrosive Oral LD50 estimated to be greater than 5000 mg/kg

Component Information: See Section 3

Chronic toxicity: None known

Specific effects

Carcinogenic effects: None known

Mutagenic effects: None known

Reproductive toxicity: Animal oral toxicity studies in a number of species, at high doses, suggest that borates cause reproductive and developmental effects . A human study of occupational exposure (questionnaire conducted by US Borax, 1993) to borate dust showed no observable adverse effects on reproduction .

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/NDL), 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	-	-	-	-	-	-
Monoethanolamine borate	10377-81-8	-	-	-	-	-	-
Monoethanolamine	141-43-5	Listed	Listed	Listed	Listed	Listed	Listed
Polyalkylene glycol	TS*	-	-	-	-	-	-
Amine containing alcohol	TS*	-	-	-	-	-	-

CERCLA / SARA

None

CAA HAP/CAA ODS/CWA Priority Pollutants: None

SARA 311/312 Hazard Categories

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

Canada

WHMIS hazard class: D2B Toxic materials .



16. OTHER INFORMATION

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

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