



Material Safety Data Sheet

Catalog Number: 76671
Revision date: 26-Apr-2006

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY INFORMATION

Catalog Number: 76671

Product name: ES 7X® LABORATORY DETERGENT

Synonyms: 7X ES; 7X PF

Supplier:

MP Biomedicals, LLC
29525 Fountain Parkway
Solon, OH 44139
tel: 440-337-1200

Emergency telephone number: CHEMTREC: 1-800-424-9300 (1-703-527-3887)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS Number	Weight %	ACGIH Exposure Limits:	OSHA Exposure Limits:
WATER	7732-18-5	80 - 90%	None	None
Pentamethylenephosphonate heptasodium	22042-96-2	10 - 20%	None	None
DIOCTYL SULFOSUCCINATE SODIUM SALT	577-11-7	1 - 5%	None	None
Glycol Ether	112-34-5	1 - 5%	None	None

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Irritating to eyes

Category of Danger:

Irritant

Principle routes of exposure: Skin

Inhalation: May cause irritation of respiratory tract

Ingestion: May be harmful if swallowed.

Skin contact: May cause allergic skin reaction

Eye contact: Moderately irritating to the eyes

ANSI Classification Irritant - eye, mild

Statements of hazard CAUSES EYE IRRITATION.

Statement of Spill or Leak - ANSI Label Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment.

Statement of First Aid In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Call a physician. If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Call a physician. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician. In case of contact, flush eyes with running water for at least 15 minutes. Consult a physician for irritation or any other symptom.

Precautions - ANSI Label Do not breathe vapors or spray mist Avoid contact with eyes Do not taste or swallow.

4. FIRST AID MEASURES

General advice: In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Inhalation: Move to fresh air. Call a physician immediately.

Skin contact: Rinse immediately with plenty of water for at least 15 minutes Remove and wash contaminated clothing before re-use Call a physician immediately Consult a physician if necessary

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Consult a physician

Eye contact: Flush eye(s) immediately with plenty of water. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Rinse immediately with plenty of water, also under the eyelids. Call a physician immediately Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician If symptoms persist, call a physician

Protection of first-aiders: No information available

Medical conditions aggravated by exposure: None known

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Use dry chemical, CO2, water spray or `alcohol` foam., Use dry chemical, CO2, water spray or "alcohol" foam, Use media appropriate for the surrounding fire.

Specific hazards:

Burning produces irritant fumes.

Unusual hazards:

None known

Special protective equipment for firefighters:

Wear self contained breathing apparatus for fire fighting if necessary. In the event of fire and/or explosion do not breathe fumes.

Specific methods:

Water mist may be used to cool closed containers.

Flash point:

Not determined

Autoignition temperature:

Not determined

NFPA rating:

NFPA Health:	0
NFPA Flammability:	0
NFPA Reactivity:	0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:

Use personal protective equipment. Remove all sources of ignition.

Environmental precautions:

Do not flush into surface water or sanitary sewer system.

Methods for cleaning up:

Soak up with inert absorbent material.

7. HANDLING AND STORAGE

Storage:

ROOM TEMPERATURE

Handling:

Use only in area provided with appropriate exhaust ventilation.

Safe handling advice:

Wear personal protective equipment. Remove and wash contaminated clothing before reuse.

Technical measures/storage conditions:

Keep containers tightly closed in a cool, well-ventilated place.

Incompatible products:

Oxidising and spontaneously flammable products

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering measures: Ensure adequate ventilation, especially in confined areas.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory protection: In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection: Pvc or other plastic material gloves

Skin and body protection: Impervious clothing Long sleeved clothing

Eye protection: If splashes are likely to occur, wear: Goggles Safety glasses with side-shields

Hygiene measures: Handle in accordance with good industrial hygiene and safety practice.



9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and Odor

Tan to yellowish-grey, Hazy

Physical state:

Liquid

Formula:

Not applicable

Melting point/range:

No data available at this time.

Boiling point/range:

No Data available at this time.

Density:

No data available

Vapor pressure:

No data available

Evaporation rate:

No data available

Vapor density:

No data available

Solubility (in water):

Soluble

Flash point:

Not determined

Autoignition temperature:

Not determined

10. STABILITY AND REACTIVITY

Stability:

Stable under recommended storage conditions.

Polymerization:

None under normal processing.

Hazardous decomposition products:

Thermal decomposition can lead to release of irritating gases and vapours such as carbon oxides.

Materials to avoid:

Strong oxidising agents

Conditions to avoid:

Exposure to air or moisture over prolonged periods.

11. TOXICOLOGICAL INFORMATION

Product Information

Acute toxicity

Components

WATER

Pentamethylenephosphonate heptasodium

DIOCTYL SULFOSUCCINATE SODIUM SALT

Glycol Ether

RTECS Number:

ZC0110000

Not Available

WN0525000

Not Available

Selected LD50s and LC50s

Oral LD50 Rat = > 90 ml/kg

Oral LD50 Rat : >5 gm/kg

Dermal LD50 Rabbit : >5 gm/kg

Oral LD50 Rat : 1900 mg/kg

Oral LD50 Mouse : 2643 mg/kg

Oral LD50 Rat : 5660 mg/kg

Oral LD50 Mouse : 2400 mg/kg

Dermal LD50 Rabbit : 2700 mg/kg

Chronic toxicity:

Chronic exposure may cause nausea and vomiting, higher exposure causes unconsciousness.

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Local effects:	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.
Specific effects:	May include moderate to severe erythema (redness) and moderate edema (raised skin), nausea, vomiting, headache.
Primary irritation:	No data is available on the product itself.
Carcinogenic effects:	No data is available on the product itself.
Mutagenic effects:	No data is available on the product itself.
Reproductive toxicity:	No data is available on the product itself.

12. ECOLOGICAL INFORMATION

Mobility:	No data available
Bioaccumulation:	No data available
Ecotoxicity effects:	No data available
Aquatic toxicity:	May cause long-term adverse effects in the aquatic environment.

Components	U.S. DOT - Appendix B - Marine Pollutan	U.S. DOT - Appendix B - Severe Marine Pollutants	United Kingdom - The Red List:
WATER	Not Listed	Not Listed	Not Listed
Pentamethylenephosphonate heptasodium	Not Listed	Not Listed	Not Listed
DIOCTYL SULFOSUCCINATE SODIUM SALT	Not Listed	Not Listed	Not Listed
Glycol Ether	Not Listed	Not Listed	Not Listed

Components	Germany VCI (WGK)	World Health Organization (WHO) - Drinking Water	Ecotoxicity - Fish Species Data
WATER	Not Listed	Not Listed	Not Listed
Pentamethylenephosphonate heptasodium	Not Listed	Not Listed	LC50 (96 hr) rainbow trout:>180 mg/L, <252 mg/L.;LC50 (96 hr) bluegill sunfish:758 mg/L.:
DIOCTYL SULFOSUCCINATE SODIUM SALT	Not Listed	Not Listed	Not Listed
Glycol Ether	1	Not Listed	LC50 (96 hr) bluegill:1300 mg/L. Cond:Static, 23 °C.;LC50 (24 hr) goldfish:2700 mg/L.:

Components	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Microtox Data	Ecotoxicity - Water Flea Data
WATER	Not Listed	Not Listed	Not Listed
Pentamethylenephosphonate heptasodium	EC50 (96 hr) freshwater algae:2 mg/L.:	Not Listed	EC50 (48 hr) water flea:242 mg/L.:
DIOCTYL SULFOSUCCINATE SODIUM SALT	Not Listed	Not Listed	Not Listed
Glycol Ether	Not Listed	Not Listed	LC50 (24 hr) water flea:2850 mg/L.:

Components	EPA - ATSDR Priority List	EPA - HPV Challenge Program Chemical List	California - Priority Toxic Pollutants
WATER	Not Listed	Not Listed	Not Listed
Pentamethylenephosphonate heptasodium	Not Listed	indicator 4; Fully and ICCA sponsored	Not Listed
DIOCTYL SULFOSUCCINATE SODIUM SALT	Not Listed	indicator 4; Fully sponsored	Not Listed
Glycol Ether	Not Listed	indicator 2; Not sponsored	Not Listed

Components	California - Priority Toxic Pollutants	California - Priority Toxic Pollutants
WATER	Not Listed	Not Listed
Pentamethylenephosphonate heptasodium	Not Listed	Not Listed
DIOCTYL SULFOSUCCINATE SODIUM SALT	Not Listed	Not Listed
Glycol Ether	Not Listed	Not Listed

13. DISPOSAL CONSIDERATIONS

Waste from residues / unused products:

Waste disposal must be in accordance with appropriate Federal, State, and local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by your local hazardous waste regulatory authority. Residue from fires extinguished with this material may be hazardous.

**Contaminated packaging:
Methods for cleaning up:**

Do not re-use empty containers
Soak up with inert absorbent material.

14. TRANSPORT INFORMATION

UN/Id No:

Not regulated

DOT:

Proper shipping name:

Not Regulated

Components	U.S. DOT - Appendix A Table 1 - Reportable Quantities
WATER	Not Listed
Pentamethylenephosphonate heptasodium	Not Listed
DIOCTYL SULFOSUCCINATE SODIUM SALT	Not Listed
Glycol Ether	RQ = 1 pound (as glycol ethers)

TDG (Canada):

WHMIS hazard class:

Non-controlled

IMDG/IMO

IMDG - Hazard Classifications

Not Applicable

Components	U.S. DOT - Appendix B - Marine Pollutan	U.S. DOT - Appendix B - Severe Marine Pollutants
WATER	Not Listed	Not Listed
Pentamethylenephosphonate heptasodium	Not Listed	Not Listed
DIOCTYL SULFOSUCCINATE SODIUM SALT	Not Listed	Not Listed
Glycol Ether	Not Listed	Not Listed

IMO-labels:**15. REGULATORY INFORMATION****International Inventories****Components**

WATER

Inventory - United States TSCA - Sect. 8(b)

Present

Canada DSL Inventory List -

Present

Australia (AICS):

Present

Inventory - China:

Present

EU EINECS List -

231-791-2; H2O

Korean KECL:

KE-35400

Philippines PICCS:

Present

Components

Pentamethylenephosphonate heptasodium

Inventory - United States TSCA - Sect. 8(b)

Present

Canada DSL Inventory List -

Present

Australia (AICS):

Present

Inventory - China:

Present

EU EINECS List -

244-751-4; C9H28N3O15P5.xNa

Korean KECL:

KE-28512

Philippines PICCS:

Present

Components

DIOCTYL SULFOSUCCINATE SODIUM SALT

Inventory - United States TSCA - Sect. 8(b)

Present

Canada DSL Inventory List -

Present

Australia (AICS):

Present

Inventory - China:

Present

EU EINECS List -

209-406-4; C20H38O7S.Na

Inventory - Japan:

2-1623

Korean KECL:

KE-32402

Philippines PICCS:

Present

Components

Glycol Ether

Inventory - United States TSCA - Sect. 8(b)

Present

Canada DSL Inventory List -

Present

Australia (AICS):

Present

Inventory - China:

Present

EU EINECS List -

203-961-6; C8H18O3

Inventory - Japan:

2-422; 7-97

Korean KECL:

KE-10466

Philippines PICCS:

Present

U.S. regulations:

Components	California Proposition 65	Massachusetts Right to Know List:	New Jersey Right to Know List:	Pennsylvania Right to Know List:
WATER	Not Listed	Not Listed	Not Listed	Not Listed
Pentamethylenephosphonate heptasodium	Not Listed	Not Listed	Not Listed	Not Listed
DIOCTYL	Not Listed	Not Listed	Not Listed	Not Listed
SULFOSUCCINATE SODIUM SALT				
Glycol Ether	Not Listed	Not Listed	Not Listed	environmental hazard

Components	Florida substance List:	Rhode Island Right to Know List:	Illinois - Toxic Air Contaminants	Connecticut - Hazardous Air Pollutants
WATER	Not Listed	Not Listed	Not Listed	Not Listed
Pentamethylenephosphonate heptasodium	Not Listed	Not Listed	Not Listed	Not Listed
DIOCTYL	Not Listed	Not Listed	Not Listed	Not Listed
SULFOSUCCINATE SODIUM SALT				
Glycol Ether	Not Listed	Not Listed	Not Listed	Not Listed

Components	SARA 313 Emission reporting/Toxic Release of Chemicals	CERCLA/SARA - Section 302 Extremely Haz	NTP:	IARC:
WATER	Not Listed	Not Listed	None	None
Pentamethylenephosphonate heptasodium	Not Listed	Not Listed	None	None
DIOCTYL	Not Listed	Not Listed	None	None
SULFOSUCCINATE SODIUM SALT				
Glycol Ether	form R reporting required for 1.0% de minimis concentration; Chemical Category N230; (applies to R-(OCH ₂ CH ₂) _n -OR" ethers, where n = 1,2, or 3"; R=alkyl C7 or less or R = phenyl or alkyl subst. p	Not Listed	None	None

SARA 313 Notification:

The above is your notification as to the SARA 313 listing for this product(s) pursuant to Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

If you are unsure if you are subject to the reporting requirements of Section 313, or need more information, please call the EPA Emergency Planning and Community Right-To-Know Information Hotline: (800) 535-0202 or (202) 479-2499 (in Washington, DC or Alaska).

State Notification:

The above information is your notice as to the Right-to-Know listings of the stated product(s). Individual states will list chemicals for a variety of reasons including, but not limited to, the compounds toxicity; carcinogenic, tumorigenic and/or reproductive hazards; and the compounds environmental impact if accidentally released.

16. OTHER INFORMATION

Prepared by: Health & Safety

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End of Safety Data Sheet