



MATERIAL SAFETY DATA SHEET

2900085

1. Chemical Product & Company Identification

Material name BIO-TERGE PAS-8S
Version # 17
Revision date 01-24-2008
Product code 0473
Manufacturer information Stepan Company
 22 West Frontage Road
 Northfield, IL 60093 USA
Emergency Medical 800-228-5635
 Chemtrec 800-424-9300
 Chemtrec Int'l 703-527-3887
General information General (847) 446-7500

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2. Hazards Identification

Emergency overview CAUTION
 COMBUSTIBLE
 Contact with this material can cause irritation to the skin, eyes and mucous membranes.

Potential health effects

Eyes Moderately irritating to the eyes.
Skin Prolonged and/or repeated skin contact may result in mild irritation or redness.
Inhalation Inhalation of vapors or mists of the product may be irritating to the respiratory system. Excessive inhalation of this material causes headache, dizziness, nausea and incoordination.
Ingestion Ingestion of large amounts may produce gastrointestinal disturbances including irritation, nausea, and diarrhea.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Sodium octanesulfonate	5324-84-5	35 - 40
Isopropanol	67-63-0	2 - 5
Sodium sulfate	7757-82-6	1 - 5

4. First Aid Measures

First aid procedures

Eye contact Immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation develops or persists.

Skin contact For skin contact flush with large amounts of water. Get medical attention if irritation develops or persists.

Inhalation If symptoms are experienced, remove source of contamination or move victim to fresh air. If symptoms persist, get medical attention. If the affected person is not breathing, apply artificial respiration. If breathing is difficult, give oxygen. Get medical attention, if needed.

Ingestion If the material is swallowed, get immediate medical attention or advice -- Do not induce vomiting.

5. Fire Fighting Measures

Flammable properties Combustible by OSHA criteria.

Extinguishing media

Suitable extinguishing media Dry chemical powder. Foam. Carbon dioxide (CO2). Water fog.

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Protection of firefighters

Protective equipment and precautions for firefighters

Firefighters should wear full protective clothing including self contained breathing apparatus.

6. Accidental Release Measures

Personal precautions

Isolate spill or leak area immediately for at least 25 meters (80 feet) in all directions. Keep unnecessary personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering. Do not touch or walk through spilled material. Wear appropriate protective equipment and clothing during clean-up. Surfaces may become slippery after spillage.

Methods for containment

Prevent entry into waterways, sewers, basements or confined areas.

Methods for cleaning up

Small Spills: Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.

Large Spills: Dike far ahead of liquid spill for later disposal.

7. Handling & Storage

Handling

Avoid contact with skin and eyes. Keep away from heat and sources of ignition. Wash hands thoroughly after handling.

Storage

Keep tightly closed in a dry, cool and well-ventilated place. Do not handle or store near an open flame, heat or other sources of ignition.

8. Exposure Controls / Personal Protection

Exposure limits

ACGIH

Components	CAS #	TWA	STEL	Ceiling Limit Value
Isopropanol	67-63-0	200 ppm	400 ppm	

OSHA

Components	CAS #	TWA	STEL	Ceiling Limit Value
Isopropanol	67-63-0	400 ppm TWA; 980 mg/m ³ TWA	400 ppm	

Engineering controls

Provide adequate local exhaust ventilation to maintain worker exposure below exposure limits. Local exhaust is suggested for use, where possible, in enclosed or confined spaces.

Personal protective equipment

Eye / face protection

Wear chemical goggles. Face-shield.

Skin protection

Wear suitable protective clothing. Use impervious gloves.

Respiratory protection

If ventilation is not sufficient to effectively prevent buildup of aerosols or vapors, appropriate NIOSH/MSHA respiratory protection must be provided.

General

Eye wash fountain and emergency showers are recommended.

9. Physical & Chemical Properties

Color	Clear.
Physical state	Liquid.
Form	Liquid.
pH	5.1 (as is)
Freezing point	27 °F (-2.8 °C)
Flash point	171 °F (77.2 °C)
Evaporation rate	Estimated slower than ethyl ether.
Vapor pressure	Not Determined or Unknown
Vapor density	Estimated heavier than air.
Specific gravity	1.104 g/ml (@ 25 °C)
Pour point	32 °F (0 °C)

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Viscosity 17 cps (@ 25 C)
Percent volatile 56 - 60 %

10. Stability & Reactivity

Chemical stability Stable at normal conditions.
Conditions to avoid Heat, flames and sparks.
Incompatible materials This product may react with strong oxidizing agents.
Hazardous decomposition products Upon decomposition, this product may yield sulfur dioxide and oxides of sulfur.
Possibility of hazardous reactions Will not occur.

11. Toxicological Information

Component analysis - LD50

Toxicology Data - Selected LD50s and LC50s

_Isopropanol	67-63-0	Inhalation LC50 Rat: 72.6 mg/L/4H; Oral LD50 Rat: 4396 mg/kg; Dermal LD50 Rat: 12800 mg/kg; Dermal LD50 Rabbit: 12800 mg/kg
_Sodium sulfate	7757-82-6	Oral LD50 Rat: >10000 mg/kg

Carcinogenicity

ACGIH - Threshold Limits Values - Carcinogens

_Isopropanol 67-63-0 A4 - Not Classifiable as a Human Carcinogen

IARC - Group 1 (Carcinogenic to Humans)

_Isopropanol 67-63-0 Supplement 7, 1987

12. Ecological Information

Ecotoxicity No data is available on the product itself.

Ecotoxicity - Freshwater Algae Data

_Isopropanol 67-63-0 96 Hr EC50 Scenedesmus subspicatus: >1000 mg/L; 72 Hr EC50 Scenedesmus subspicatus: >1000 mg/L

Ecotoxicity - Freshwater Fish Species Data

_Isopropanol 67-63-0 96 Hr LC50 Pimephales promelas: 9640 mg/L [flow-through]; 96 Hr LC50 Pimephales promelas: 94900 mg/L [flow-through] (29 days old); 96 Hr LC50 Pimephales promelas: 61200 mg/L [flow-through] (31 days old)
_Sodium sulfate 7757-82-6 24 Hr LC50 Pimephales promelas: 13500 mg/L; 96 Hr LC50 Lepomis macrochirus: 13 mg/L [static]

Ecotoxicity - Microtox Data

_Isopropanol 67-63-0 5 min EC50 Photobacterium phosphoreum: 35390 mg/L

Ecotoxicity - Water Flea Data

_Isopropanol 67-63-0 48 Hr EC50 Daphnia magna: 13299 mg/L
_Sodium sulfate 7757-82-6 96 Hr EC50 water flea: 4547 mg/L; 48 Hr EC50 Daphnia magna: 2564 mg/L

13. Disposal Considerations

Disposal Instructions Regulations vary. Dispose in accordance with all applicable regulations.

14. Transport Information

Notes Refer to bill of lading or container label for DOT or other transportation hazard classification, if any.

15. Regulatory Information

US federal regulations

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

_Isopropanol 67-63-0 1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

CERCLA (Superfund) reportable quantity

None

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Superfund Amendments and Reauthorization Act of 1986 (SARA)

Section 302 extremely hazardous substance No
Section 311 hazardous chemical No

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of New and Existing Chemicals (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

State regulations**U.S. - New Jersey - Right to Know Hazardous Substance List**

Isopropanol 67-63-0 sn 1076; sn 2381 (strong-acid process manufacture)

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

Isopropanol 67-63-0 Present

U.S. - Pennsylvania - RTK (Right to Know) List

Isopropanol 67-63-0 Environmental hazard
 Sodium sulfate 7757-82-6 Environmental hazard

16. Other Information**HMIS® ratings**

Health: 1
 Flammability: 2
 Physical hazard: 0
 Personal protection: X

NFPA ratings

Health: 1
 Flammability: 2
 Instability: 0

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Issue date

01-24-2008

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