

Sulfam™

SAFETY DATA SHEET

Preparation Date: 07-Jun-2007 Revision Date: 10-Sep-2021 Revision Number: 3

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name Sulfam™

Other means of identification

Item#: 4321 Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Powdered Acid Detergent, Restricted to professional users

Uses advised against All other

Details of the supplier of the safety data sheet

Supplier DeLaval Cleaning Solutions

11100 N. Congress Ave.

Kansas City, MO 64153: 816-891-7700, 8am - 5pm M-F

Emergency Telephone Number

Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

Acute Toxicity - Oral	Category 4
Skin Corrosion/Irritation	Category 2
Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 1B

Label Elements

Emergency Overview

DANGER

Hazard Statements

Harmful if swallowed Causes skin irritation Causes serious eye irritation May cause cancer



Appearance White Physical state Powder Odor No information available

Precautionary Statements - Prevention

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Precautionary Statements - Response

IF exposed or concerned: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Borates, tetra, sodium salts, decahydrate	1303-96-4	1 - 10
Sulfamic acid	5329-14-6	90 - 100

If a concentration range is shown, the exact concentration has been withheld as a trade secret.

4. FIRST AID MEASURES

Description of first-aid measures

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Call a physician immediately.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. Call a physician

immediately.

Inhalation Move to fresh air. If symptoms persist, call a physician.

Ingestion Do not induce vomiting. Drink 1 or 2 glasses of water. Call a physician or Poison Control

Center immediately. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Corrosive. The product causes burns of eyes, skin and mucous membranes.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available.

Specific hazards arising from the chemical

The product causes burns of eyes, skin and mucous membranes.

Sensitivity to static discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health hazards 2 Flammability 0 Instability 0

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Avoid contact with skin, eyes and clothing. Avoid dust formation. Use personal protective equipment.

Environmental Precautions

Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling When diluting, always add the product to water. Never add water to the product. Avoid

contact with skin, eyes and clothing.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

Incompatible Materials bases, strong oxidizing agents, bleach

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Borates, tetra, sodium salts, decahydrate	TWA: 2 mg/m ³	TWA: 10 mg/m ³	-
1303-96-4	STEL: 6 mg/m ³	1	

Appropriate engineering controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Individual protection measures, such as personal protective equipment

Eye/face Protection Safety glasses with side-shields.

Skin and body protection Wear protective gloves and protective clothing.

Respiratory Protection In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical statePowderOdorNo information availableAppearanceWhiteOdor ThresholdNo information available

Remarks/ Method

<u>Property</u> <u>Values</u>

pH No information available
Melting point/freezing point
Boiling Point/Range No information available
Flash Point No information available
Evaporation rate No information available
Flammability (solid, gas)
Flammability Limit in Air

Upper flammability limit
Lower flammability limit
Vapor Pressure
Vapor Density
Specific Gravity

No information available
No information available
No information available
No information available

Water Solubility soluble

Partition coefficient: No information available

n-octanol/water

Autoignition TemperatureNo information availableDecomposition temperatureNo information availableViscosity of ProductNo information availableDynamic viscosityNo information available

Other information

Liquid Density No information available

10. STABILITY AND REACTIVITY

Reactivity

May react with other chemicals. Do not mix with other chemicals except as directed on label.

Chemical Stability

Stable under normal conditions.

Possibility of hazardous reactions

Gives off hydrogen by reaction with some metals (e.g. aluminum).

Hazardous Polymerization

Hazardous polymerisation does not occur.

Conditions to Avoid

Extremes of temperature and direct sunlight.

Incompatible Materials

bases, strong oxidizing agents, bleach

Hazardous decomposition products

Ammonia. Carbon oxides. nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

<u>Principal Routes of Exposure</u> Eye contact, Skin contact, Ingestion, Inhalation

Information on likely routes of exposure

Eyes Corrosive to the eyes and may cause severe damage including blindness.

Skin Extremely corrosive and destructive to tissue.

IngestionIngestion causes burns of the upper digestive and respiratory tracts.InhalationProduct dust may be irritating to eyes, skin and respiratory system.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization Product is not identified as a sensitizer according to OSHA regulations. **Mutagenic effects** Product is not identified as a mutagen according to OSHA regulations.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Borates, tetra, sodium salts, decahydrate 1303-96-4	Not Listed	Group 2A	Not Listed	Not Listed

Legend:

IARC (International Agency for Research on Cancer)

Group 2A - Probably Carcinogenic to Humans

Reproductive EffectsProduct is not identified as having reproductive effects according to OSHA regulations. **STOT - single exposure**Product is not identified as having single target organ toxicity (single exposure) according to

OSHA regulations.

STOT - repeated exposure Product is not identified as having single target organ toxicity (repeated exposure)

according to OSHA regulations.

Aspiration Hazard Product is not identified as an aspiration hazard according to OSHA regulations.

Numerical measures of toxicity

If available, toxicity values of individual components are shown below.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation	
Borates, tetra, sodium salts,	= 2660 mg/kg (Rat) = 3493 mg/kg	> 10000 mg/kg (Rabbit)	> 2 mg/m³ (Rat) 4 h	
decahydrate 1303-96-4	(Rat)			
Sulfamic acid 5329-14-6	316 mg/kg (Rat)	No data available	No data available	

0.2% of the mixture consists of ingredient(s) of unknown toxicity

12. ECOLOGICAL INFORMATION

Ecotoxicity

If available, ecotoxicity values of individual components are shown below.

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Sulfamic acid 5329-14-6	EC50 (72 u) : 48 mg/l (Desmodesmus	LC 50, 96 hours: 70.3 mg/l, Pimephales promelas	No data available	EC ₅₀ ,: 71.6 mg/kg, Daphnia magna
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Persistence and degradability

No information available.

Bioaccumulation/Accumulation

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method Dispose of in accordance with local regulations. Should not be released into the

environment.

Contaminated Packaging Empty containers should be taken for local recycling, recovery or waste disposal.

14. TRANSPORT INFORMATION

DOT

UN-No 2967

Proper Shipping Name Sulfamic acid

Hazard Class 8
Packing Group III

15. REGULATORY INFORMATION

State Regulations

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Chemical name	New Jersey	Massachusetts	Pennsylvania			
Borates, tetra, sodium salts, decahydrate 1303-96-4	Not Listed	Х	X			
Sulfamic acid 5329-14-6	Х	Not Listed	Not Listed			

U.S. EPA Label information

EPA Pesticide registration number Not applicable

16. OTHER INFORMATION

Preparation Date: 07-Jun-2007 Revision Date: 10-Sep-2021 Revision Note: None

<u>Disclaimer</u>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of SDS