



Destainer (AFCO 0470)

Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Revision Date: 01/03/2024

Version: 1.1

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Destainer

Product Code: AFCO 0470

Intended Use of the Product

Use of the Substance/Mixture: Non-chlorinated destainer for use on food processing equipment. For professional use only.

Name, Address, and Telephone of the Responsible Party

Company

AFCO

800 Development Avenue

Chambersburg, PA 17201

T 800-345-1329

www.afcocare.com

Emergency Telephone Number

Emergency Number : 1-800-424-9300 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the Substance or Mixture

Classification (GHS-US)

Ox. Sol. 2 H272

Acute Tox. 4(Oral) H302

Eye Dam 1 H318

STOT SE 3 H335

Repr. 1B H360

Aquatic Acute 3 H402

Full text of H-phrases: see section 16

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US)

- : H272 - May intensify fire; oxidizer
- H302 - Harmful if swallowed
- H318 - Causes serious eye damage
- H335 - May cause respiratory irritation
- H360 - May damage fertility or the unborn child
- H402 - Harmful to aquatic life

Precautionary Statements (GHS-US)

- : P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P210 - Keep away from heat.
- P220 - Keep/Store away from ignition sources, organic material, combustible material, incompatible materials.
- P221 - Take any precaution to avoid mixing with combustible materials, clothing.
- P261 - Avoid breathing dust or fumes.
- P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
- P270 - Do not eat, drink or smoke when using this product.
- P271 - Use only outdoors or in a well-ventilated area.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves, protective clothing, eye protection, face protection,

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respiratory protection.
P281 - Use personal protective equipment as required.
P301+P310 - If swallowed: Immediately call a poison center/doctor.
P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 - If exposed or concerned: Get medical advice/attention.
P310 - Immediately call a poison center/doctor.
P312 - Call a POISON CENTER or doctor/physician if you feel unwell.
P321 - Specific treatment (see section 4).
P330 - Rinse mouth.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P363 - Wash contaminated clothing before reuse.
P370+P378 - In case of fire: Use appropriate media to extinguish.
P391 - Collect spillage.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. When heated to decomposition, emits toxic fumes. Contains an oxidizing material which may accelerate fire.

Unknown Acute Toxicity (GHS-US): Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Mixture

Name	Product Identifier	% (w/w)	Classification (GHS-US)
Sodium perborate tetrahydrate	(CAS No) 10486-00-7	100	Ox. Sol. 2, H272 Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 3, H402 Repr. 1B, H360

Full text of H-phrases: see section 16.

SECTION 4: FIRST AID MEASURES

Description of First Aid Measures

General: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Inhalation: When symptoms occur: go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Obtain medical attention.

Skin Contact: Immediately flush skin with plenty of water for several minutes. Get immediate medical advice/attention. Wash contaminated clothing before reuse.

Eye Contact: Seek medical attention immediately. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.

Ingestion: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor/physician.

Most Important Symptoms and Effects Both Acute and Delayed

General: Causes serious eye damage. Harmful if swallowed. May damage fertility or the unborn child.

Inhalation: May cause respiratory irritation

Skin Contact: Causes slight skin irritation.

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Eye Contact: Causes serious eye damage.

Ingestion: Ingestion is likely to be harmful or have adverse effects. Harmful if swallowed.

Chronic Symptoms: May damage fertility. May damage the unborn child

Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention.

SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media: Water spray, fog, carbon dioxide, foam, dry chemical.

Unsuitable Extinguishing Media: Do not use a heavy water stream. Use of heavy stream of water may spread fire.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: May intensify fire; oxidizer.

Explosion Hazard: Contains an oxidizing material which may accelerate fire.

Reactivity: Thermal decomposition generates: Corrosive vapors. When heated to decomposition, emits toxic fumes. Accelerates the rate of burning materials. Oxidizer.

Advice for Firefighters

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

Firefighting Instructions: Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area.

Protection During Firefighting: Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Toxic fumes are released. Sodium oxides. Boron oxides.

Other Information: Do not allow run-off from fire fighting to enter drains or water courses.

Reference to Other Sections

Refer to section 9 for flammability properties.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Do not allow product to spread into the environment. Avoid breathing dust. Do not get in eyes, on skin, or on clothing. Keep away from combustible material.

For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: None.

Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills to prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Avoid breathing dust. Sweep up spills immediately and dispose of waste safely. Do not take up in combustible material such as: saw dust or cellulosic material. Contact competent authorities after a spill.

Reference to Other Sections

See heading 8, Exposure Controls and Personal Protection.

SECTION 7: HANDLING AND STORAGE

Precautions for Safe Handling

Additional Hazards When Processed: When heated to decomposition, emits toxic fumes. Contains an oxidizing material which may accelerate fire.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling.

Conditions for Safe Storage, Including Any Incompatibilities

Technical Measures: Comply with applicable regulations.

Storage Conditions: Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from moisture, extremely high temperatures, flames, ignition sources, organic materials, and incompatible materials.

Incompatible Materials: Combustible materials, organic materials, metals, metallic salts, bases, reducing agents.

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Special Rules on Packaging: Store in original container.

Specific End Use(s): Non-chlorinated destainer for use on food processing equipment. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Exposure Controls

Appropriate Engineering Controls: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal Protective Equipment: Protective goggles. Face shield. Gloves. Insufficient ventilation: wear respiratory protection.



Materials for Protective Clothing: None usually needed.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles. Face shield.

Skin and Body Protection: None usually needed.

Respiratory Protection: Use NIOSH-approved air-purifying or supplied-air respirator where airborne concentrations of dust are expected.

Other Information: When using, do not eat, drink or smoke.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	: Solid
Appearance	: Off white crystals
Odor	: None
Odor Threshold	: Not available
pH (1%)	: 10.2
Evaporation Rate	: Not available
Melting Point	: 65°C (149°F)
Freezing Point	: Not available
Boiling Point	: None
Flash Point	: None
Auto-ignition Temperature	: Not available
Decomposition Temperature	: Not available
Flammability (solid, gas)	: Not available
Lower Flammable Limit	: Not available
Upper Flammable Limit	: Not available
Vapor Pressure	: Not available
Relative Vapor Density at 20°C	: Not available
Specific Gravity	: Not available
Solubility	: Water: Complete
Partition Coefficient: N-Octanol/Water	: Not available
Viscosity	: Not available
Explosion Data – Sensitivity to Mechanical Impact	: Not expected to present an explosion hazard due to mechanical impact
Explosion Data – Sensitivity to Static Discharge	: Not expected to present an explosion hazard due to static discharge

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SECTION 10: STABILITY AND REACTIVITY

Reactivity: Thermal decomposition generates: When heated to decomposition, emits toxic fumes. Sodium oxides. Boron oxides. Accelerates the rate of burning materials. Oxidizer.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Store away from extremely high temperatures, flames, ignition sources, organic materials, and incompatible materials.

Incompatible Materials: Combustible materials, organic materials, metals, metallic salts, bases, reducing agents

Hazardous Decomposition Products: Thermal decomposition generates: Sodium oxides. Boron oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Oral: Harmful if swallowed.

LD50 and LC50 Data: Not available.

Skin Corrosion/Irritation: Causes slight skin irritation. pH (1%): 10.2

Serious Eye Damage/Irritation: Causes serious eye damage. pH (1%): 10.2

Respiratory or Skin Sensitization: Not classified.

Germ Cell Mutagenicity: Not classified.

Teratogenicity: Not available.

Carcinogenicity: Not classified.

Specific Target Organ Toxicity (Repeated Exposure): Not classified.

Reproductive Toxicity: May damage fertility or the unborn child.

Specific Target Organ Toxicity (Single Exposure): Not classified.

Aspiration Hazard: Not classified.

Symptoms/Injuries After Inhalation: May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Causes slight skin irritation.

Symptoms/Injuries After Eye Contact: Causes serious eye damage.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects. Toxic if swallowed.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Sodium perborate tetrahydrate (10486-00-7)	
LD50 Oral Rat	1200 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Toxicity

Not available.

Sodium perborate tetrahydrate (10486-00-7)	
LC50 Fish 1	51 mg/l (Exposure time: 96 h - Species: Danio rerio)
EC50 Daphnia 1	11 mg/l (Exposure time: 48 h - Species: Daphnia magna)

Persistence and Degradability: Not available.

Bioaccumulative Potential

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Bioaccumulative Potential	Not established.

Mobility in Soil: Not available.

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal Recommendations: Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

Additional Information: Not available.

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT

Proper Shipping Name : OXIDIZING SOLID, N.O.S. (sodium peroxometaborate tetrahydrate)

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Hazard Class : 5.1
Identification Number : UN1479
Label Codes : 5.1
Packing Group : III
ERG Number : 140



14.2 In Accordance with IMDG

Proper Shipping Name : OXIDIZING SOLID, N.O.S. (sodium peroxometaborate tetrahydrate)
Hazard Class : 5.1
Identification Number : UN1479
Packing Group : III
Label Codes : 5.1
EmS-No. (Fire) : F-A
EmS-No. (Spillage) : S-Q



14.3 In Accordance with IATA

Proper Shipping Name : OXIDIZING SOLID, N.O.S. (sodium peroxometaborate tetrahydrate)
Packing Group : III
Identification Number : UN1479
Hazard Class : 5.1
Label Codes : 5.1
ERG Code (IATA) : 5C



14.4 In Accordance with TDG

Proper Shipping Name : OXIDIZING SOLID, N.O.S. (sodium peroxometaborate tetrahydrate)
Packing Group : III
Hazard Class : 5.1
Identification Number : UN1479
Label Codes : 5.1



SECTION 15: REGULATORY INFORMATION

US Federal Regulations

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SARA Section 311/312 Hazard Classes : Immediate (acute) health hazard.

Sodium perborate tetrahydrate (10486-00-7)

Listed on the United States TSCA (Toxic Substances Control Act) inventory.

US State Regulations

Sodium perborate tetrahydrate (10486-00-7)

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

U.S. - Pennsylvania - Right-to-Know List

Canadian Regulations

Sodium perborate tetrahydrate (10486-00-7)

Listed on the Canadian DSL (Domestic Substances List)

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

Revision Date : 01/03/2024

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

GHS Full Text Phrases:

Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Eye Dam 1	Serious eye damage/eye irritation Category 1
STOT SE 3	Specific target organ toxicity – single exposure –Category 3
Ox. Sol. 2	Oxidizing solids Category 2

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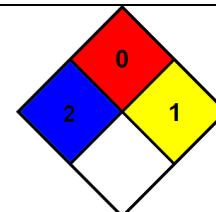
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Repr. 1B	Reproductive toxicity Category 1B
H272	May intensify fire; oxidizer
H302	Harmful if swallowed
H318	Causes serious eye damage.
H335	May cause respiratory irritation
H360	May damage fertility or the unborn child
H402	Harmful to aquatic life

NFPA Health Hazard : 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

NFPA Fire Hazard : 0 - Materials that will not burn.

NFPA Reactivity : 1 - Normally stable, but can become unstable at elevated temperatures and pressures or may react with water with some release of energy, but not violently.



HMIS III Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur.

Flammability : 0 - Minimal Hazard.

Physical : 1 - Slight Hazard.

Party Responsible for the Preparation of This Document

AFCO
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Chambersburg, PA 17201
T: 800-345-1329

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

North America GHS SDS 2015 (U.S., Can., Mex.)