Destainer #1 (AFCO 0483)

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision Date: 01/03/2024 Version: 1.3

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture

Product Name: Destainer #1

Product Code: AFCO 0483

Intended Use of the Product

Metal destaining compound 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. 3	H272
Acute Tox. 4 (Oral)	H302
Eye Dam 1	H318
Aquatic Acute 2	H401
Aquatic Chronic 2	H411

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US) :

GHS05 GHS09 GHS03

Signal Word (GHS-US) : Danger.

Hazard Statements (GHS-US) :
H272 - May intensify fire: oxidizer
H302 - Harmful if swallowed
H318 - Causes serious eye damage
H401 - Toxic to aquatic life
H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements (GHS-US) :
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.
P234 - Keep only in original container.
P270 - Do not eat, drink or smoke when using this product.
P273- Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection.
P301+P312 - If swallowed: Call a poison center/doctor if you feel unwell.
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a POISON CENTER or doctor/physician.
P330 - Rinse mouth.

P370+P378 - In case of fire: Use appropriate media to extinguish.
P391- Collect spillage.
P501 - Dispose of contents/container to local, regional, national, territorial, provincial, and international regulations.

Other Hazards

Other Hazards: Contact with some metals may evolve flammable hydrogen gas.

Unknown Acute Toxicity (GHS-US) Not available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Name	Product identifier	% (w/w)	Classification (GHS-US)
Sodium bisulfate	(CAS No) 7681-38-1	90-100	Acute Tox. 4(Oral), H302 Eye Dam. 1, H318
Potassium permanganate	(CAS No) 7722-64-7	0-10	Ox. Sol. 2, H272 Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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: Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Skin Contact: Remove contaminated clothing. Rinse cautiously with water for at least 30 minutes. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.

Eye Contact: Rinse cautiously with water for at least 60 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 slight skin irritation and serious eye damage.

Inhalation: Not usually a source of exposure.

Skin Contact: Causes slight skin irritation.

Eye Contact: Causes serious eye damage.

Ingestion: Ingestion is likely to be harmful or have adverse effects. Contact may cause immediate severe irritation progressing quickly to chemical burns.

Chronic Symptoms: None expected under normal conditions of use.

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 or dry chemical as appropriate for combustibles in area. Avoid water contact to material if possible. Dike to contain any water used.

Unsuitable Extinguishing Media: Do not use a heavy water stream.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: Not flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Oxidizer. May intensify fire. Product readily dissolves in water to form a weak sulfuric acid solution. No gases or toxic fumes are emitted from this reaction, but precautions for exposure to sulfuric acid should be followed. Product contains potassium permanganate, a powerful oxidizing agent. May react violently with finely divided and readily oxidizable materials. May increase the flammability of combustible materials.

Advice for Firefighters

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

Firefighting Instructions: Do not breath fumes from fires or vapors from decomposition. Stop leak if safe to do so. Do not allow run-off from firefighting to enter drains or water sources.

Protection During Firefighting: If water is used to extinguish combustibles and product is dissolved in water forming sulfuric acid, wear protective equipment. If elevated temperatures (<570°F/<65.6°C) are reached, self-contained breathing apparatus should be worn. Also, if yellow, white or brown fumes are present, wear self-contained breathing apparatus and full protective clothing.

Hazardous Combustion Products Sulfur oxides, potassium oxides, sodium oxides, manganese oxides.

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. Do not get in eyes, on skin, or on clothing

For Non-Emergency Personnel

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

Emergency Procedures: Evacuate unnecessary personnel.

For Emergency Personnel

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

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

Environmental Precautions

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

Methods and Material for Containment and Cleaning Up

For Containment: Sweep or shovel up spills**.** Prevent migration and entry into sewers or streams.

Methods for Cleaning Up: Avoid creating dust. Wear appropriate protective equipment to prevent inhalation of dust. Place spilled material into proper container for disposal. Do not flush spilled material to sewer.

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: Contact with some metals may evolve flammable hydrogen gas.

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. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

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 away from incompatible materials.

Incompatible Materials: Strong bases, reducing agents, combustible materials, moisture, hypochlorites.

Specific End Use(s)

Metal destaining compound for use on food processing equipment. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

No Occupational Exposure Limits (OELs) have been established for this product or any of its chemical components.

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: Safety glasses. Gloves. Protective goggles. Corrosion-proof clothing.

Materials for Protective Clothing: Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical goggles or safety glasses.

Skin and Body Protection: Wear suitable protective clothing.

Respiratory Protection: None usually needed.

Consumer Exposure Controls: Do not eat, drink, or smoke during use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Information on Basic Physical and Chemical Properties

Physical State	:	Powder
Appearance	:	Light purple
Odor	:	Low
Odor Threshold	:	Not available
pH (1%)	:	1.3
Relative Evaporation Rate (butylacetate=1)	:	Not available
Melting Point	:	Starts to decompose with evolution of oxygen above 149°C (300°F)
Freezing Point	:	Not available
Boiling Point	:	97.8°C (208.04°F)
Flash Point	:	Not flammable
Auto-ignition Temperature	:	Not available
Decomposition Temperature	:	Not available
Flammability (solid, gas)	:	Not flammable
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 avaialble
Solubility	:	Complete in water
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

SECTION 10: STABILITY AND REACTIVITY

Reactivity: Thermal decomposition generates sulfur oxides, potassium oxides, sodium oxides, manganese oxides. Contact with some metals may generate explosive hydrogen gas.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous reactions will not occur under normal conditions.

Conditions to Avoid: Incompatible materials.

Incompatible Materials: Strong bases, reducing agents, combustible materials, moisture, hypochlorites.

Hazardous Decomposition Products: Thermal decomposition generates: Sulfur oxides, potassium oxides, sodium oxides, manganese oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified.

LD50 and LC50 Data: Not available.

Skin Corrosion/Irritation: Causes slight skin irritation. (**pH[1%]:** 1.3)

Serious Eye Damage/Irritation: Causes serious eye damage. (**pH[1%]:** 1.3)

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: Not classified.

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

Aspiration Hazard: Not classified.

Symptoms/Injuries After Inhalation: Not classified.

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.

Chronic Symptoms: None expected under normal conditions of use.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Sodium bisulfate (7681-38-1)	
LD50 Oral Rat	2800 mg/kg

Potassium permanganate (7722-64-7)	
LD50 Oral Rat	1090 mg/kg

SECTION 12: ECOLOGICAL INFORMATION

Toxicity Not classified.

Potassium permanganate (7722-64-7)	
LC50 Fish 1	0.3-0.6 mg/l (Exposure time: 96 hrs. – Species: Rainbow trout)
EC50 Daphnia 1	0.084 mg/l (Exposure time: 48 hrs. – Species: Daphnia magna)

Persistence and Degradability

Destainer #1 (AFCO 0483)	
Persistence and Degradability	Not established.

Bioaccumulative Potential

Destainer #1 (AFCO 0483)	
Bioaccumulative Potential	Not established.

Mobility in Soil Not available.

Other Adverse Effects

Other Information: Avoid release to the environment.

SECTION 13: DISPOSAL CONSIDERATIONS

Sewage Disposal Recommendations: Do not empty into drains; dispose of this material and its container in a safe way.

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

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT

Proper Shipping Name : OXIDIZING SUBSTANCE, SOLID, N.O.S. (POTASSIUM PERMANGANATE)

Hazard Class : 5.1

Identification Number : UN1479

Label Codes : 5.1

Packing Group : II

ERG Number : 140

14.2 In Accordance with IMDG

Proper Shipping Name : OXIDIZING SUBSTANCE, SOLID, N.O.S. (POTASSIUM PERMANGANATE)
Hazard Class : 5.1
Identification Number : UN1479
Packing Group : II
Label Codes : 5.1
EmS-No. (Fire) : F-H
EmS-No. (Spillage) : S-Q

14.3 In Accordance with IATA

Proper Shipping Name : OXIDIZING SUBSTANCE, SOLID, N.O.S. (POTASSIUM PERMANGANATE)
Packing Group : II
Identification Number : UN1479
Hazard Class : 5.1
Label Codes : 5.1

ERG Number : 5L

14.4 In Accordance with TDG

Proper Shipping Name : OXIDIZING SUBSTANCE, SOLID, N.O.S. (POTASSIUM PERMANGANATE)
Packing Group : II
Hazard Class : 5.1
Identification Number : UN1479
Label Codes : 5.1

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

Destainer #1 (AFCO 0483)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard.

Sodium bisulfate (7681-38-1)
Listed on the United States TSCA (Toxic Substances Control Act) inventory.
Potassium permanganate (7722-64-7)
Listed on the United States TSCA (Toxic Substances Control Act) inventory.

US State Regulations

Sodium bisulfate (7681-38-1)
RTK - U.S. - New Jersey - Right to Know Hazardous Substance List. RTK - U.S. - Pennsylvania - RTK (Right to Know) List.

Canadian Regulations

Sodium bisulfate (7681-38-1)
Listed on the Canadian DSL (Domestic Substances List) inventory.
Potassium permanganate (7722-64-7)
Listed on the Canadian DSL (Domestic Substances List) inventory.

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:

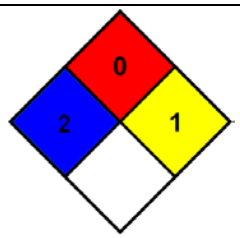
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2

Eye Dam. 1	Serious eye damage/eye irritation Category 1
Ox. Sol. 2	Oxidizing solids Category 2
Ox. Sol. 3	Oxidizing solids Category 3
H272	May intensify fire; oxidizer
H302	Harmful if swallowed
H318	Causes serious eye damage
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects

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
800 Development Avenue
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.)