

SECTION 1: IDENTIFICATION

Product Identifier

Product Form: Mixture
Product Name: End-O-Rust
Product Code: AFCO 5599

Intended Use of the Product:

Use of the Substance/Mixture: Lubricant for use on equipment in the meat, dairy, bakery, brewery, and processed food industries where rust needs to be removed and controlled. 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)

Skin Irrit. 3 H316
 Eye Irrit. 2A H319

Label Elements

GHS-US Labeling

Hazard Pictograms (GHS-US)



Signal Word (GHS-US)

: Warning.

Hazard Statements (GHS-US)

: H316 - Causes mild skin irritation
 H319 - Causes serious eye irritation

Precautionary Statements (GHS-US)

: P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.
 P280 - Wear protective gloves, protective clothing, eye protection, face protection.
 P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P332+P313 - If skin irritation occurs: Get medical advice/attention.
 P337+P313 - If eye irritation persists: Get medical advice/attention.

Other Hazards

Other Hazards Not Contributing to the Classification: Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

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

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Mixture

| Name | Product identifier | % (w/w) | Classification (GHS-US) |
|--|---------------------|---------|--|
| White mineral oil | (CAS No) 8042-47-5 | 90-95 | Not classified |
| Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched | (CAS No) 68412-54-4 | 1-5 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 |

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| | | | |
|---|----------------------|-----|--|
| | | | Aquatic Chronic 3, H412 |
| Benzene, mono-C10-13-alkyl derivatives, fractionation bottoms, heavy ends, sulfonated, sodium salts | (CAS No) 148520-82-5 | 1-5 | Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 |

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 if breathing difficulty persists.

Skin Contact: Remove contaminated clothing. Drench affected area with water for several minutes. Obtain medical attention if irritation persists. Wash contaminated clothing before reuse.

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

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 irritation and mild skin irritation.

Inhalation: None under normal and intended conditions of use.

Skin Contact: Causes mild skin irritation.

Eye Contact: Causes serious eye irritation.

Ingestion: None.

Chronic Symptoms: Not available.

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 fog, dry chemical carbon dioxide, foam or inert gas.

Unsuitable Extinguishing Media: Do not use a direct stream of water. Use of a direct stream of water may cause the material to float and reignite.

Special Hazards Arising From the Substance or Mixture

Fire Hazard: When heated above its flash point temperature, this material will release flammable vapors which if exposed to an ignition source, can burn in the open. Mists and sprays may be flammable at temperatures below the flash point.

Explosion Hazard: May be explosive if heated above flash point, and exposed to ignition source in a confined space.

Reactivity: When heated to decomposition, emits toxic fumes.

Advice for Firefighters

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

Firefighting Instructions: Use water spray or fog for cooling exposed containers.

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

Hazardous Combustion Products: Carbon oxides (CO, CO₂), sulfur oxides, unidentified organic compounds.

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: Avoid all contact with skin, eyes, or clothing. Keep away from heat/open flames/hot surfaces. Do not breathe mist or spray.

For Non-Emergency Personnel

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

Emergency Procedures: Evacuate unnecessary personnel.

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For Emergency Personnel

Protective Equipment: Equip cleanup crew with proper protection.

Emergency Procedures: None.

Environmental Precautions

Prevent entry to sewers and public waters.

Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Absorb spill with inert materials such as sand, earth, clay, etc. and in place in container for proper disposal.

Methods for Cleaning Up: Clear up spills immediately and dispose of waste safely. 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. Keep away from heat/open flames/hot surfaces.

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 extremely high temperatures, open flames, heat, ignition sources, incompatible materials.

Incompatible Materials: Oxidizers such as chlorine or oxygen.

Special Rules on Packaging: Keep only in original container.

Specific End Use(s): Lubricant for use on equipment in the meat, dairy, bakery, brewery, and processed food industries where rust needs to be removed and controlled. For professional use only.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters

No Occupational Exposure Limits (OELs) have been established for this product or 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. Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment: Protective goggles. Gloves.



Materials for Protective Clothing: None usually needed.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical or safety goggles

Skin and Body Protection: None usually needed.

Respiratory Protection: A respirator is not needed under normal and intended conditions of product use.

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 | : | Liquid |
| Appearance | : | Hazy, amber |
| Odor | : | Mild |
| Odor Threshold | : | Not available |
| pH | : | Not available |

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| | |
|--|--|
| Relative Evaporation Rate (butylacetate=1) | : Not available |
| Melting Point | : Not available |
| Freezing Point | : Not available |
| Boiling Point | : >455°F |
| Flash Point | : >265°F |
| 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 21°C | : <0.1mm Hg |
| Specific Gravity | : 0.85 |
| Solubility | : Negligible |
| 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 | : Static discharge may present an explosion hazard. |

SECTION 10: STABILITY AND REACTIVITY

Reactivity: When heated to decomposition, emits toxic fumes.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Excessive heat, open flames, incompatible materials.

Incompatible Materials: Oxidizers such as chlorine or oxygen.

Hazardous Decomposition Products: Burning or excessive heating may produce smoke, carbon monoxide, carbon dioxide, sulfur oxides.

SECTION 11: TOXICOLOGICAL INFORMATION

Information on Toxicological Effects - Product

Acute Toxicity: Not classified.

LD50 and LC50 Data: Not available.

Skin Corrosion/Irritation: Causes mild skin irritation (pH: N/A).

Serious Eye Damage/Irritation: May cause serious eye irritation (pH: N/A).

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: None under normal and intended conditions of use.

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

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

Symptoms/Injuries After Ingestion: None.

Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

| White mineral oil (8042-47-5) | |
|--------------------------------------|-------------|
| LD50 Oral Rat | >5000 mg/kg |
| LD50 Dermal Rabbit | >2000 mg/kg |

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| | |
|--|------------|
| Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched (68412-54-4) | |
| LD50 Oral Rat | 1310 mg/kg |

SECTION 12: ECOLOGICAL INFORMATION

Toxicity Ecology – Not available.

Persistence and Degradability: Not available.

Bioaccumulative Potential

| | |
|-------------------------------|------------------|
| End-O-Rust (AFCO 5599) | |
| Bioaccumulative Potential | Not established. |

Mobility in Soil Not available.

Other Adverse Effects

Other Information: Not available.

SECTION 13: DISPOSAL CONSIDERATIONS

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

Ecology – Waste Materials: Not available.

SECTION 14: TRANSPORT INFORMATION

14.1 In Accordance with DOT : Not regulated for transport.

14.2 In Accordance with IMDG : Not regulated for transport.

14.3 In Accordance with IATA : Not regulated for transport.

14.4 In Accordance with TDG : Not regulated for transport.

SECTION 15: REGULATORY INFORMATION

US Federal Regulations

| | |
|-------------------------------------|------|
| End-O-Rust (AFCO 5599) | |
| SARA Section 311/312 Hazard Classes | N/A. |

White mineral oil (8042-47-5)

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

Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched (68412-54-4)

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

Benzene, mono-C10-13-alkyl derivatives, fractionation bottoms, heavy ends, sulfonated, sodium salts (148520-82-5)

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

US State Regulations

White mineral oil (8042-47-5)

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

Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched (68412-54-4)

U.S. - Texas - Effects Screening Levels - Long Term.

U.S. - Texas - Effects Screening Levels - Short Term.

Canadian Regulations

White mineral oil (8042-47-5)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Poly(oxy-1,2-ethanediyl), .alpha.-(4-nonylphenyl)-.omega.-hydroxy-, branched (68412-54-4)

Listed on the Canadian DSL (Domestic Substances List) inventory.

Benzene, mono-C10-13-alkyl derivatives, fractionation bottoms, heavy ends, sulfonated, sodium salts (148520-82-5)

Listed on Non-Domestic Substances List (NDSL).

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

Revision date : 01/09/2023

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

End-O-Rust (AFCO 5599)

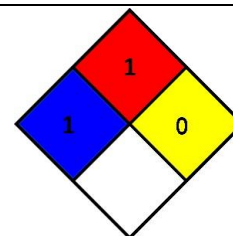
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GHS Full Text Phrases:

| | |
|---------------------|---|
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4. |
| Aquatic Chronic 3 | Hazardous to the aquatic environment - Chronic Hazard Category 3. |
| Eye Dam. 1 | Serious eye damage/eye irritation Category 1. |
| Eye Irrit. 2A | Serious eye damage/eye irritation Category 2A. |
| Skin Irrit. 2 | Skin corrosion/irritation Category 2. |
| Skin Irrit. 3 | Skin corrosion/irritation Category 3. |
| H302 | Harmful if swallowed. |
| H315 | Causes severe skin burns and eye damage. |
| H316 | Causes mild skin irritaiton. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H412 | Harmful to aquatic life with long lasting effects. |

- NFPA Health Hazard** : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.
- NFPA Fire Hazard** : 1 - Must be preheated before ignition can occur.
- NFPA Reactivity** : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

- Health** : 1 Slight Hazard- Irritation or minor reversible injury possible.
- Flammability** : 1 - Slight Hazard.
- Physical** : 0 - Minimal 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.)