

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 06/02/2025

Revised on 06/02/2025

1 Identification

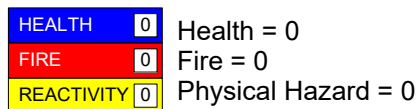
- **Product Identifier**
- **Trade Name: Artificial eccrine perspiration/sebum emulsion**
- **Other means of identification**
- **Product Number:**
1700-0547
1700-0549
- **Relevant identified uses of the substance or mixture and uses advised against:**
No further relevant information available.
- **Product Description:** Artificial eccrine perspiration/sebum emulsion
- **Details of the Supplier of the Safety Data Sheet:**
- **Manufacturer/Supplier:**
Pickering Laboratories, Inc.
1280 Space Park Way
Mountain View, CA 94043
Phone: (650) 694-6700
Fax: (650) 968-0749
www.pickeringlabs.com
support@pickeringlabs.com
- **Emergency telephone number:**
Clean Harbors Environmental Services
1-800-645-8265

* 2 Hazard(s) Identification

- **Classification of the substance or mixture:**
The product does not need classification according to OSHA HazCom Standard 29 CFR paragraph (d) of §1910.1200(g) and GHS Rev 03.
- **Label elements:**
- **Hazard pictograms:** Non-Regulated Material
- **Signal word:** Non-Regulated Material
- **Hazard statements:** Non-Regulated Material
- **Unknown acute toxicity:**
This value refers to knowledge of known, established toxicological or ecotoxicological values.
1 % of the mixture consists of component(s) of unknown toxicity.
- **Information pertaining to particular dangers for man and environment:**
- **Classification system:** NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- **NFPA ratings (scale 0 - 4)**



- **HMIS-ratings (scale 0 - 4)**



- **Hazard(s) not otherwise classified (HNOC):** None
- **Classification according to (d)(1)(ii) of § 1910.1200**
The SDS issuer does not object to the classifications provided by importers or manufacturers of precursor products.

(Contd. on page 2)

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· **Hazards not otherwise classified**

There are no adverse physical or health effects known that are not covered by the hazard classes of the Hazard Communications Standard.

*** 3 Composition/Information on Ingredients**

· **Chemical characterization: Substance**

· **Description:**

Mixture of substances listed with non-hazardous additions and/or components that are less than listing threshold. All non-hazardous, components listed under threshold, and listed component total 100%.

· **Dangerous Components:**

CAS: 50-21-5 RTECS: OD 2800000	Lactic Acid ⚠ Acute toxicity - inhalation 3, H331; ⚠ Eye damage 1, H318; ⚠ Skin irritation 2, H315	<0.5%
CAS: 102-71-6	Triethanolamine ⚠ Skin irritation 2, H315; Eye irritation 2B, H320	<1.0%
CAS: 57-11-4 RTECS: WI 2800000	Stearic Acid, pure ⚠ Skin irritation 2, H315; Specific target organ toxicity (single exposure) 3, H335; Eye irritation 2B, H320	<0.5%
CAS: 10043-52-4 RTECS: EV 9800000	Calcium chloride ⚠ Eye irritation 2A, H319	<0.5%
CAS: 57-13-6 RTECS: YR 6250000	Urea	≤2.5%
CAS: 7783-20-2 RTECS: BS 4500000	Ammonium Sulfate ⚠ Skin irritation 2, H315; Eye irritation 2A, H319; Specific target organ toxicity (single exposure) 3, H335; Aquatic Acute 3, H402	<0.05%

· **Additional information:**

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

*** 4 First-Aid Measures**

· **Description of first aid measures**

· **General information:** If symptoms persist, call a physician.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist. In case of unconsciousness place patient stably in the side position for transportation.

· **After skin contact:**

Generally, the product does not irritate the skin. If skin irritation occurs, consult a doctor.

· **After eye contact:**

Rinse opened eye for several minutes under running water. If eye irritation occurs, consult a doctor.

· **After swallowing:**

Give water freely and/or 1% acetic acid (or vinegar) followed by milk. Do not induce vomiting. Get medical assistance immediately. If swallowed and symptoms occur, consult a doctor.

· **Most important symptoms and effects, both acute and delayed:** No further relevant information available.

· **Indication of any immediate medical attention and special treatment needed:**

No further relevant information available.

(Contd. on page 3)

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

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Trade Name: Artificial eccrine perspiration/sebum emulsion

5 Fire-Fighting Measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents:** No further relevant information.
- **Special hazards arising from the substance or mixture:** No further relevant information available.
- **Advice for firefighters**
- **Special protective equipment for firefighters:**
As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

* 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures:** Not required.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to section 13.
Ensure adequate ventilation.
Dispose of the collected material according to regulations.

· **PAC-1:**

112-80-1	oleic acid, pure	220 mg/m ³
102-71-6	Triethanolamine	15 mg/m ³
57-10-3	Palmitic acid	0.19 mg/m ³
57-11-4	Stearic Acid, pure	14 mg/m ³
111-02-4	2,6,10,15,19,23-hexamethyltetracos-2,6,10,14,18,22-hexaene	8.2 mg/m ³
57-13-6	Urea	30 mg/m ³
10043-52-4	Calcium chloride	12 mg/m ³
7783-20-2	Ammonium Sulfate	13 mg/m ³
7791-18-6	Magnesium Chloride	34 mg/m ³
5329-14-6	Sulfamic acid	9.5 mg/m ³

· **PAC-2:**

112-80-1	oleic acid, pure	2,400 mg/m ³
102-71-6	Triethanolamine	240 mg/m ³
57-10-3	Palmitic acid	2.1 mg/m ³
57-11-4	Stearic Acid, pure	150 mg/m ³
111-02-4	2,6,10,15,19,23-hexamethyltetracos-2,6,10,14,18,22-hexaene	90 mg/m ³
57-13-6	Urea	280 mg/m ³
10043-52-4	Calcium chloride	33 mg/m ³
7783-20-2	Ammonium Sulfate	99 mg/m ³
7791-18-6	Magnesium Chloride	370 mg/m ³
5329-14-6	Sulfamic acid	100 mg/m ³

· **PAC-3:**

112-80-1	oleic acid, pure	15,000 mg/m ³
102-71-6	Triethanolamine	1,500 mg/m ³
57-10-3	Palmitic acid	12 mg/m ³

(Contd. on page 4)

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 06/02/2025

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Trade Name: Artificial eccrine perspiration/sebum emulsion

57-11-4	Stearic Acid, pure	910 mg/m ³
111-02-4	2,6,10,15,19,23-hexamethyltetracos-2,6,10,14,18,22-hexaene	540 mg/m ³
57-13-6	Urea	1,700 mg/m ³
10043-52-4	Calcium chloride	200 mg/m ³
7783-20-2	Ammonium Sulfate	590 mg/m ³
7791-18-6	Magnesium Chloride	1,600 mg/m ³
5329-14-6	Sulfamic acid	630 mg/m ³

· **Reference to other sections:**

- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for disposal information.

7 Handling and Storage

· **Precautions for safe handling:**

- Avoid contact with skin, eyes and clothing
- Avoid breathing fumes.
- Use personal protection equipment as outlined in section 8.
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.

· **Information about protection against explosions and fires:** No special measures required.

· **Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and receptacles:** Store refrigerated

· **Information about storage in one common storage facility:** See Section 10 (Incompatible materials)

· **Further information about storage conditions:**

- Keep receptacle tightly sealed.
- Shelf Life = 1 Year

· **Specific end use(s):** No further relevant information available.

* 8 Exposure Controls/Personal Protection

· **Control parameters:**

· **Components with occupational exposure limits:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **Additional information:** The lists that were valid during the creation of this SDS were used as basis.

· **Exposure controls:**

· **Appropriate engineering controls** No further data; see section 7.

· **Personal protective equipment**

· **General protective and hygienic measures:**

- Use adequate exhaust ventilation to prevent inhalation of product vapors.
- Do not eat or drink while handling product.
- Togliere immediatamente tutti gli indumenti sporchi o contaminati.
- The usual precautionary measures for handling chemicals should be followed.
- Keep away from foodstuffs, beverages and feed.
- Wash hands before breaks and at the end of work.

· **Breathing equipment:**

Respiratory protection is not required unless handling of the material produces nuisance airborne concentrations.

(Contd. on page 5)

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 06/02/2025

Revised on 06/02/2025

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Protection of hands:



Protective gloves

- **Material of gloves:** Latex or vinyl
- **Penetration time of glove material:** Not applicable.
- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Lab coat
- **Limitation and supervision of exposure into the environment:** None

9 Physical and Chemical Properties

Information on basic physical and chemical properties

General Information

- **Physical state:** Liquid
- **Color:** Clear
- **Odor:** Odorless
- **Odor threshold:** Not determined.
- **Melting point/Melting range:** Not determined.
- **Boiling point/Boiling range:** Not determined.
- **Flammability:** Not applicable.
- **Explosion limits:**
- **Lower:** Not determined.
- **Upper:** Not determined.
- **Flash point:** None
- **Auto igniting:** Not applicable
- **Decomposition temperature:** Not determined.
- **pH-value:** Not applicable.
- **Viscosity:**
- **Kinematic:** Not determined.
- **Dynamic:** Not determined.
- **Solubility in / Miscibility with:**
- **Water:** Aqueous solution
- **Partition coefficient (n-octanol/water):** Not determined.
- **Vapor pressure:** Not determined.
- **Vapor pressure:**
- **Density @ 20 °C (68 °F):** ~1.0265 g/cm³ (~8.5661 lbs/gal)
- **Relative density:** Not determined.
- **Vapor density:** Not determined.
- **Particle characteristics:** Not applicable.
- **Other information:**
- **Appearance:**
- **Form:** Liquid
- **Important information on protection of health and environment, and on safety.**
- **Ignition temperature:** Product is not self-igniting.

(Contd. on page 6)

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 06/02/2025

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- **Danger of explosion:** Product does not present an explosion hazard.
- **Solvent content:**
- **Organic solvents:** 0.8 %
- **VOC content:** 0.80 %
- **Change in condition**
- **Evaporation rate:** Not determined.

10 Stability and Reactivity

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** No dangerous reactions known.
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

*** 11 Toxicological Information**

- **Information on toxicological effects:**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

50-21-5 Lactic Acid			
Oral	LD50		3,543 mg/kg (Rat)
Dermal	LD50		>2,000 mg/kg (rabbit)
Inhalative	LC50/4 h		7.94 mg/l (Rat)

- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** No irritating effect.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
- **Interactive effects** No interactive effects between components are known.

- **Carcinogenic categories:**
- **IARC (International Agency for Research on Cancer):**
 Group 1 - Carcinogenic to humans
 Group 2A - Probably carcinogenic to humans
 Group 2B - Possibly carcinogenic to humans
 Group 3 - Not classifiable as to its carcinogenicity to humans
 Group 4 - Probably not carcinogenic to humans

102-71-6	Triethanolamine	3
57-88-5	Cholesterol	3

· **NTP (National Toxicology Program):**

None of the ingredients are listed.

· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

· **Alternative sources for toxicological information**

No non-standard sources for toxicological information where used.

(Contd. on page 7)

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

Date of issue: 06/02/2025

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Trade Name: Artificial eccrine perspiration/sebum emulsion

*12 Ecological Information

· **Toxicity:**

· **Aquatic toxicity:**

50-21-5 Lactic Acid

EC50 | 130 mg/l (Daphnia)

· **Persistence and degradability:** No further relevant information available.

· **Bioaccumulative potential:** No further relevant information available.

· **Mobility in soil:** No further relevant information available.

· **Results of PBT and vPvB assessment:**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

· **Other adverse effects:**

· **Additional ecological information:**

· **General notes:** Generally not hazardous for water.

13 Disposal Considerations

· **Waste treatment methods**

· **Recommendation:**

This product may be mixed with a combustible solvent and burned in a chemical incinerator equipped with an after burner and scrubber. This product can also be sent to an EPA approved waste disposal facility. Observe all federal, state and local environmental regulations when disposing of this material.

· **Uncleaned packaging**

· **Recommendation:** Disposal must be made according to official regulations.

14 Transport Information

· **UN-Number:**

· **DOT, ADR/ADN, ADN, IMDG, IATA** Non-Regulated Material

· **UN proper shipping name:**

· **DOT, ADR/ADN, ADN, IMDG, IATA** Non-Regulated Material

· **Transport hazard class(es):**

· **DOT, ADR/ADN, ADN, IMDG, IATA**

· **Class:** Non-Regulated Material

· **Packing group:**

· **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material

· **Environmental hazards:** Not applicable.

· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.

· **Special precautions for user:** Not applicable.

· **UN "Model Regulation":** Non-Regulated Material

15 Regulatory Information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture:**

No further relevant information available.

· **SARA (Superfund Amendments and Reauthorization):**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

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Revised on 06/02/2025

Trade Name: Artificial eccrine perspiration/sebum emulsion

· Section 313 (Specific toxic chemical listings):		
7783-20-2	Ammonium Sulfate	
· TSCA (Toxic Substances Control Act):		
8001-25-0	Olea europaea (Olive) fruit oil	ACTIVE
112-80-1	oleic acid, pure	ACTIVE
102-71-6	Triethanolamine	ACTIVE
8001-31-8	Fractionated Coconut Oil (Caprylic/Capric Triglycerides)	ACTIVE
57-10-3	Palmitic acid	ACTIVE
8002-74-2	Paraffin Waxes	ACTIVE
57-11-4	Stearic Acid, pure	ACTIVE
57-88-5	Cholesterol	ACTIVE
60-33-3	linoleic acid, pure	ACTIVE
111-02-4	2,6,10,15,19,23-hexamethyltetracos-2,6,10,14,18,22-hexaene	ACTIVE
50-21-5	Lactic Acid	ACTIVE
57-13-6	Urea	ACTIVE
7447-40-7	Potassium chloride	ACTIVE
7647-14-5	Sodium chloride	ACTIVE
10043-52-4	Calcium chloride	ACTIVE
7783-20-2	Ammonium Sulfate	ACTIVE
77-92-9	citric acid	ACTIVE
69-93-2	uric acid	ACTIVE
5329-14-6	Sulfamic acid	ACTIVE
· Hazardous Air Pollutants		
None of the ingredients are listed.		
· California Proposition 65:		
· Chemicals known to cause cancer:		
None of the ingredients are listed.		
· Chemicals known to cause reproductive toxicity for females:		
None of the ingredients are listed.		
· Chemicals known to cause reproductive toxicity for males:		
None of the ingredients are listed.		
· Chemicals known to cause developmental toxicity:		
None of the ingredients are listed.		
· New Jersey Right-to-Know List:		
102-71-6	Triethanolamine	
8002-74-2	Paraffin Waxes	
5329-14-6	Sulfamic acid	
· New Jersey Special Hazardous Substance List:		
5329-14-6	Sulfamic acid	CO
· Pennsylvania Right-to-Know List:		
112-80-1	oleic acid, pure	
102-71-6	Triethanolamine	

Safety Data Sheet

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8002-74-2	Paraffin Waxes	
7783-20-2	Ammonium Sulfate	
· Pennsylvania Special Hazardous Substance List:		
7783-20-2	Ammonium Sulfate	E
· Carcinogenic categories:		
· EPA (Environmental Protection Agency):		
57-13-6	Urea	II
· TLV (Threshold Limit Value established by ACGIH):		
None of the ingredients are listed.		
· NIOSH-Ca (National Institute for Occupational Safety and Health):		
None of the ingredients are listed.		
<ul style="list-style-type: none"> · GHS label elements Non-Regulated Material · Hazard pictograms: Non-Regulated Material · Signal word: Non-Regulated Material · Hazard statements: Non-Regulated Material 		
· National regulations:		
The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.		
· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.		

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- **Date of previous version** 06/09/2021
- **Version number of previous version:** 9
- **Date of preparation** 06/02/2025
- **Abbreviations and acronyms:**

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
 ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
 IMDG: International Maritime Code for Dangerous Goods
 DOT: US Department of Transportation
 IATA: International Air Transport Association
 EINECS: European Inventory of Existing Commercial Chemical Substances
 ELINCS: European List of Notified Chemical Substances
 CAS: Chemical Abstracts Service (division of the American Chemical Society)
 NFPA: National Fire Protection Association (USA)
 HMIS: Hazardous Materials Identification System (USA)
 VOC: Volatile Organic Compounds (USA, EU)
 LC50: Lethal concentration, 50 percent
 LD50: Lethal dose, 50 percent
 PBT: Persistent, Bioaccumulative and Toxic
 vPvB: very Persistent and very Bioaccumulative
 NIOSH: National Institute for Occupational Safety and Health
 OSHA: Occupational Safety & Health Administration
 TLV: Threshold Limit Value
 PEL: Permissible Exposure Limit
 REL: Recommended Exposure Limit
 Acute toxicity - inhalation 3: Acute toxicity – Category 3
 Skin irritation 2: Skin corrosion/irritation – Category 2
 Eye damage 1: Serious eye damage/eye irritation – Category 1
 Eye irritation 2A: Serious eye damage/eye irritation – Category 2A

Safety Data Sheet

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2024 and GHS Rev 07

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Revised on 06/02/2025

Trade Name: Artificial eccrine perspiration/sebum emulsion

Eye irritation 2B: Serious eye damage/eye irritation – Category 2B

Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3

Aquatic Acute 3: Hazardous to the aquatic environment - acute aquatic hazard – Category 3

· *** Data compared to the previous version altered.**

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