

Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 02/14/2020

Reviewed on 02/14/2020

1 Identification

- **Product Identifier**
- **Trade Name: Artificial eccrine perspiration/sebum emulsion**
- **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:** Non-Regulated Material
- **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.
- **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)**

HEALTH	0	Health = 0
FIRE	0	Fire = 0
REACTIVITY	0	Physical Hazard = 0

- **Hazard(s) not otherwise classified (HNOC):** None

3 Composition/Information on Ingredients

- **Non-hazardous components:**

CAS: 7447-40-7	Potassium Chloride	<0.5%
CAS: 69-93-2	uric acid	<0.05%

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CAS: 8001-25-0 RTECS: RK 4300000	Virgin Olive oil	≤ 2.5%
CAS: 8001-31-8 RTECS: GG6040000	Fractionated Coconut Oil (Caprylic/Capric Triglycerides)	<1.0%
CAS: 8002-74-2 RTECS: RV 0350000	Paraffin Waxes	<1.0%
CAS: 57-10-3 RTECS: RT 4550000	Palmitic acid	<1.0%
CAS: 60-33-3 RTECS: RF 9990000	linoleic acid, pure	<0.5%
CAS: 111-02-4 RTECS: XB6010000	2,6,10,15,19,23-hexamethyltetracos-2,6,10,14,18,22-hexaene	<0.5%
CAS: 57-88-5 RTECS: FZ 8400000	Cholesterol	<0.5%
CAS: 50-21-5 RTECS: OD 2800000	Lactic Acid ⚠ Acute Tox. 3, H331; ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315	<0.5%

· **Chemical characterization: Mixtures**

· **Description:** Mixture of substances listed below with non-hazardous additions.

· **Dangerous Components:**

CAS: 112-80-1 RTECS: RG 2275000	oleic acid, pure ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	<1.0%
CAS: 102-71-6	Triethanolamine ⚠ Skin Irrit. 2, H315; Eye Irrit. 2B, H320	<1.0%
CAS: 57-11-4 RTECS: WI 2800000	Stearic Acid, pure ⚠ Skin Irrit. 2, H315; STOT SE 3, H335; Eye Irrit. 2B, H320	<0.5%
CAS: 10043-52-4 RTECS: EV 9800000	Calcium Chloride ⚠ Eye Irrit. 2A, H319	<0.5%
CAS: 7783-20-2 RTECS: BS 4500000	Ammonium Sulfate ⚠ Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335	<0.05%
CAS: 57-13-6 RTECS: YR 6250000	Urea	<0.5%

· **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:** No special measures required.

· **After inhalation:** Not anticipated under normal use.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:**

Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Get medical attention.

· **After swallowing:**

Give water freely and/or 1% acetic acid (or vinegar) followed by milk. Do not induce vomiting. Get medical assistance immediately.

· **Information for doctor**

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

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- **Indication of any immediate medical attention and special treatment needed:**
No further relevant information available.

*** 5 Fire-Fighting Measures**

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **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:**
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).
Dispose of contaminated material as waste according to section 13.
- **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.
- **Protective Action Criteria for Chemicals**

· 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	130 mg/m ³
7783-20-2	Ammonium Sulfate	140 mg/m ³

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7791-18-6	Magnesium Chloride	370 mg/m3
5329-14-6	Sulfamic acid	100 mg/m3
· PAC-3:		
112-80-1	oleic acid, pure	15,000 mg/m3
102-71-6	Triethanolamine	1,500 mg/m3
57-10-3	Palmitic acid	12 mg/m3
57-11-4	Stearic Acid, pure	910 mg/m3
111-02-4	2,6,10,15,19,23-hexamethyltetracosane	540 mg/m3
57-13-6	Urea	1,700 mg/m3
10043-52-4	Calcium Chloride	790 mg/m3
7783-20-2	Ammonium Sulfate	840 mg/m3
7791-18-6	Magnesium Chloride	1,600 mg/m3
5329-14-6	Sulfamic acid	630 mg/m3

7 Handling and Storage

- **Handling**
- **Precautions for safe handling:**
 Avoid contact with skin, eyes and clothing
 Avoid breathing fumes.
 Use personal protection equipment as outlined in section 8.
- **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

- **Additional information about design of technical systems:** No further data; see section 7.
- **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:**
- **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.
 Immediately remove all soiled and contaminated clothing.
 The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:**
 Respiratory protection is not required unless handling of the material produces nuisance airborne concentrations.

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· **Protection of hands:**



Protective gloves

· **Material of gloves:** Latex or vinyl

· **Penetration time of glove material:**

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

· **Eye protection:**



Tightly sealed goggles

· **Body protection:** Lab coat

9 Physical and Chemical Properties

· **Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· Form:	Liquid
· Color:	Clear
· Odor:	Odorless
· Odor threshold:	Not determined.

· **pH-value:** Not applicable.

· **Change in condition**

· Melting point/Melting range:	Not determined.
· Boiling point/Boiling range:	Not determined.

· **Flash point:** None

· **Flammability (solid, gaseous):** Not applicable.

· **Ignition temperature:** Not applicable

· **Decomposition temperature:** Not determined.

· **Auto igniting:** Product is not self-igniting.

· **Danger of explosion:** Product does not present an explosion hazard.

· **Explosion limits:**

· Lower:	Not determined.
· Upper:	Not determined.

· **Vapor pressure:** Not determined.

· **Density:**

· Relative density:	Not determined.
· Vapor density:	Not determined.
· Evaporation rate:	Not determined.

· **Solubility in / Miscibility with:**

· Water:	Aqueous solution
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- **Partition coefficient (n-octanol/water):** Not determined.
- **Viscosity:**
 - Dynamic:** Not determined.
 - Kinematic:** Not determined.
- **Solvent content:**
 - Organic solvents:** 0.8 %
 - VOC content:** 0.8 %
 - Solids content:** 2.3 %
- **Other information:** No further relevant information available.

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:** No data available.
- **Primary irritant effect:**
- **On the skin:** No irritating effect.
- **On the eye:** No irritating effect.
- **Additional toxicological information:**
 The product is not subject to classification according to internally approved calculation methods for preparations.
 When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

· **Carcinogenic categories:**

· IARC (International Agency for Research on Cancer):		
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.

12 Ecological Information

- **Toxicity:**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability:** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential:** No further relevant information available.
- **Mobility in soil:** No further relevant information available.

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- **Additional ecological information:**
- **General notes:** Generally not hazardous for water.
- **Results of PBT and vPvB assessment:**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects:** No further relevant information available.

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. Smaller quantities can be disposed of with household waste. 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.
- **Special precautions for user:** Not applicable.
- **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:** Not applicable.
- **UN "Model Regulation":** Non-Regulated Material

15 Regulatory Information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture:**
- **SARA (Superfund Amendments and Reauthorization):**

· Section 355 (extremely hazardous substances):	
None of the ingredients are listed.	
· Section 313 (Specific toxic chemical listings):	
7783-20-2	Ammonium Sulfate
· TSCA (Toxic Substances Control Act):	
8001-25-0	Virgin Olive oil
112-80-1	oleic acid, pure
102-71-6	Triethanolamine
8001-31-8	Fractionated Coconut Oil (Caprylic/Capric Triglycerides)
57-10-3	Palmitic acid
8002-74-2	Paraffin Waxes

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57-11-4	Stearic Acid, pure	
60-33-3	linoleic acid, pure	
111-02-4	2,6,10,15,19,23-hexamethyltetracos-2,6,10,14,18,22-hexaene	
57-88-5	Cholesterol	
57-13-6	Urea	
7647-14-5	Sodium Chloride	
7447-40-7	Potassium Chloride	
50-21-5	Lactic Acid	
10043-52-4	Calcium Chloride	
7783-20-2	Ammonium Sulfate	
77-92-9	Citric Acid	
69-93-2	uric acid	
5329-14-6	Sulfamic acid	
· 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	
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.		

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- **GHS label elements** Non-Regulated Material
- **Hazard pictograms:** Non-Regulated Material
- **Signal word:** Non-Regulated Material
- **Hazard statements:** Non-Regulated Material

· **National regulations:**

None of the ingredients are listed.

- **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 last revision/ revision number:** 02/14/2020 / 6

· **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
- ACGIH: American Conference of Governmental Industrial Hygienists
- 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
- Skin Irrit. 2: Skin corrosion/irritation – Category 2
- Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
- Eye Irrit. 2B: Serious eye damage/eye irritation – Category 2B
- STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

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

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