

# Safety Data Sheet (SDS)

OSHA HazCom Standard 29 CFR 1910.1200(g) revised in 2012 and GHS Rev 03.

Issue date 02/20/2024

Reviewed on 02/20/2024

## 1 Identification

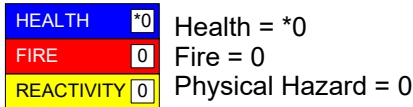
- **Product Identifier**
- **Trade Name: Dusty Sweat/Sebum Emulsion**
- **Product Number:** 1700-0707
- **Relevant identified uses of the substance or mixture and uses advised against:**
- **Product Description:** Artificial sweat/ artificial sebum emulsion containing synthetic soil
- **Details of the 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.  
 3 % 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)**



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

## 3 Composition/Information on Ingredients

- **Chemical characterization: Substance**
- **Description:** Mixture of substances listed below with non-hazardous additions.

· **Dangerous Components:**

CAS: 50-21-5 RTECS: OD 2800000	Lactic Acid ⚠ Acute Toxicity - Inhalation 3, H331; ⚠ Eye Damage 1, H318; ⚠ Skin Irritation 2, H315	≤2.5%
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	Non-Hazardous Components	>98%
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- **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; consult doctor in case of complaints.
- **After skin contact:**  
Generally, the product does not irritate the skin.  
If skin irritation occurs, consult a doctor.
- **After eye contact:**  
If eye irritation occurs, consult a doctor.  
Rinse opened eye for several minutes under running water.
- **After swallowing:** If swallowed and symptoms occur, consult a doctor.
- **Information for 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:** Treat symptomatically.

## 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:** Ensure adequate ventilation.
- **Environmental precautions:** Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (i.e. sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of the collected material according to regulations.
- **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.

· <b>PAC-1:</b>		
112-80-1	Oleic acid, pure	220 mg/m <sup>3</sup>
102-71-6	Triethanolamine	15 mg/m <sup>3</sup>
57-10-3	Palmitic acid	0.19 mg/m <sup>3</sup>
57-11-4	Stearic Acid, pure	14 mg/m <sup>3</sup>
111-02-4	2,6,10,15,19,23-hexamethyltetracosane	8.2 mg/m <sup>3</sup>
63231-67-4	Silica gel 60	18 mg/m <sup>3</sup>

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· <b>PAC-2:</b>		
112-80-1	Oleic acid, pure	2,400 mg/m <sup>3</sup>
102-71-6	Triethanolamine	240 mg/m <sup>3</sup>
57-10-3	Palmitic acid	2.1 mg/m <sup>3</sup>
57-11-4	Stearic Acid, pure	150 mg/m <sup>3</sup>
111-02-4	2,6,10,15,19,23-hexamethyltetracos-2,6,10,14,18,22-hexaene	90 mg/m <sup>3</sup>
63231-67-4	Silica gel 60	200 mg/m <sup>3</sup>
· <b>PAC-3:</b>		
112-80-1	Oleic acid, pure	15,000 mg/m <sup>3</sup>
102-71-6	Triethanolamine	1,500 mg/m <sup>3</sup>
57-10-3	Palmitic acid	12 mg/m <sup>3</sup>
57-11-4	Stearic Acid, pure	910 mg/m <sup>3</sup>
111-02-4	2,6,10,15,19,23-hexamethyltetracos-2,6,10,14,18,22-hexaene	540 mg/m <sup>3</sup>
63231-67-4	Silica gel 60	1,200 mg/m <sup>3</sup>

### 7 Handling and Storage

- **Handling**
- **Precautions for safe handling:**  
Use normal laboratory hygiene procedures.  
Wash thoroughly after handling.
- **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 in a tightly closed container. Keep from contact with oxidizing materials. Store in a cool, dry, well-ventilated area away from incompatible substances.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **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:**  
The usual precautionary measures for handling chemicals should be followed.  
Wash hands before breaks and at the end of work.
- **Breathing equipment:** Not required.
- **Protection of hands:** Not required.
- **Material of gloves:** Not applicable.
- **Penetration time of glove material:** Not applicable.

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- **Eye protection:** Not required.
- **Limitation and supervision of exposure into the environment:** None

\* **9 Physical and Chemical Properties**

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

· **General Information**

· **Appearance:**

- |                          |                 |
|--------------------------|-----------------|
| · <b>Form:</b>           | Liquid          |
| · <b>Color:</b>          | Milky           |
| · <b>Odor:</b>           | Odorless        |
| · <b>Odor threshold:</b> | Not determined. |

- |                    |   |
|--------------------|---|
| · <b>pH-value:</b> | 5 |
|--------------------|---|

· **Change in condition**

- |                                       |                 |
|---------------------------------------|-----------------|
| · <b>Melting point/Melting range:</b> | Not determined. |
| · <b>Boiling point/Boiling range:</b> | Not determined. |

- |                       |      |
|-----------------------|------|
| · <b>Flash point:</b> | None |
|-----------------------|------|

- |   |                 |
|---|-----------------|
| · <b>Flammability (solid, gaseous):</b> | Not applicable. |
|---|-----------------|

- |                         |                |
|-------------------------|----------------|
| · <b>Auto igniting:</b> | Not applicable |
|-------------------------|----------------|

- |                                     |                 |
|-------------------------------------|-----------------|
| · <b>Decomposition temperature:</b> | Not determined. |
|-------------------------------------|-----------------|

- |                                |                               |
|--------------------------------|-------------------------------|
| · <b>Ignition temperature:</b> | Product is not self-igniting. |
|--------------------------------|-------------------------------|

- |                               |   |
|-------------------------------|---|
| · <b>Danger of explosion:</b> | Product does not present an explosion hazard. |
|-------------------------------|---|

· **Explosion limits:**

- |                 |                 |
|-----------------|-----------------|
| · <b>Lower:</b> | Not determined. |
| · <b>Upper:</b> | Not determined. |

- |                          |                 |
|--------------------------|-----------------|
| · <b>Vapor pressure:</b> | Not determined. |
|--------------------------|-----------------|

- |                   |                 |
|-------------------|-----------------|
| · <b>Density:</b> | Not determined. |
|-------------------|-----------------|

- |                            |                 |
|----------------------------|-----------------|
| · <b>Relative density:</b> | Not determined. |
|----------------------------|-----------------|

- |                         |                 |
|-------------------------|-----------------|
| · <b>Vapor density:</b> | Not determined. |
|-------------------------|-----------------|

- |                            |                 |
|----------------------------|-----------------|
| · <b>Evaporation rate:</b> | Not determined. |
|----------------------------|-----------------|

· **Solubility in / Miscibility with:**

- |                 |                 |
|-----------------|-----------------|
| · <b>Water:</b> | Fully miscible. |
|-----------------|-----------------|

- |   |                 |
|---|-----------------|
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined. |
|---|-----------------|

· **Viscosity:**

- |                     |                 |
|---------------------|-----------------|
| · <b>Dynamic:</b>   | Not determined. |
| · <b>Kinematic:</b> | Not determined. |

· **Solvent content:**

- |                            |       |
|----------------------------|-------|
| · <b>Organic solvents:</b> | 0.8 % |
|----------------------------|-------|

- |                             |  |
|-----------------------------|--|
| · <b>Other information:</b> | No further relevant information available. |
|-----------------------------|--|

**10 Stability and Reactivity**

- **Reactivity:** No further relevant information available.
- **Chemical stability:** Product is stable under normal conditions.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

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- **Possibility of hazardous reactions:** None
- **Conditions to avoid:** None
- **Incompatible materials:** Oxidizing agents.
- **Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological Information**

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

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>50-21-5 Lactic Acid</b>		
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:**
- **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):**

63231-67-4	Silica gel 60	K
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- **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.

**12 Ecological Information**

- **Toxicity:**

· <b>Aquatic toxicity:</b>		
<b>50-21-5 Lactic Acid</b>		
EC50	130 mg/l (Daphnia)	

- **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.
- **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.

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## 13 Disposal Considerations

- **Waste treatment methods**
- **Recommendation:**  
Observe all federal, state and local environmental regulations when disposing of this material.
- **Uncleaned packaging**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport Information

- **UN-Number:**
- **DOT, ADR/ADN, IMDG, IATA** Non-Regulated Material
- **UN proper shipping name:**
- **DOT, ADR/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:**  
No further relevant information available.
- **SARA (Superfund Amendments and Reauthorization):**

· <b>Section 355 (extremely hazardous substances):</b>
None of the ingredients are listed.

· <b>Section 313 (Specific toxic chemical listings):</b>
None of the ingredients are listed.

· <b>TSCA (Toxic Substances Control Act):</b>	
50-21-5 Lactic Acid	ACTIVE
71-00-1 L-Histidine	ACTIVE
8001-25-0 Virgin Olive 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

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111-02-4	2,6,10,15,19,23-hexamethyltetracosane-2,6,10,14,18,22-hexaene	ACTIVE
1332-58-7	Kaolin	ACTIVE
63231-67-4	Silica gel 60	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
1332-58-7	Kaolin

· **New Jersey Special Hazardous Substance List:**  
None of the ingredients are listed.

· **Pennsylvania Right-to-Know List:**

112-80-1	Oleic acid, pure
102-71-6	Triethanolamine
8002-74-2	Paraffin Waxes
1332-58-7	Kaolin

· **Pennsylvania Special Hazardous Substance List:**  
None of the ingredients are listed.

· **Carcinogenic categories:**

· **EPA (Environmental Protection Agency):**  
None of the ingredients are listed.

· **TLV (Threshold Limit Value established by ACGIH):**

1332-58-7	Kaolin	2 mg/m <sup>3</sup>
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· **NIOSH-Ca (National Institute for Occupational Safety and Health):**  
None of the ingredients are listed.

- **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.

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### 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.

· **Contact:**

· **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)
- 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

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

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