

Safety Data Sheet

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

Date of issue: 06/11/2025

Revised on 06/11/2025

1 Identification

- **Product Identifier**
- **Trade Name: Artificial Perspiration, ISO 12870, stabilized/ non-stabilized**
- **Other means of identification**
- **Product Number:** 1700-0014; 1700-0519; 1700-0510; 1700-0525
- **Relevant identified uses of the substance or mixture and uses advised against:**
No further relevant information available.
- **Product Description:** Artificial Perspiration according to ISO 12870, stabilized/ non-stabilized
- **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:**



Sensitization - skin 1 H317 May cause an allergic skin reaction.

- **Label elements:**
- **Hazard pictograms:**



- **Signal word:** Warning
- **Hazard statements:**
H317 May cause an allergic skin reaction.
- **Precautionary statements:**
P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
P272 Contaminated work clothing must not be allowed out of the workplace.
P280 Wear protective gloves.
P302+P352 If on skin: Wash with plenty of water.
P362+P364 Take off contaminated clothing and wash it before reuse.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).
P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- **Unknown acute toxicity:**
This value refers to knowledge of known, established toxicological or ecotoxicological values.
5 % 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

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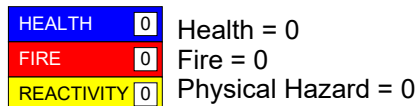
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Trade Name: Artificial Perspiration, ISO 12870, stabilized/ non-stabilized

· **NFPA ratings (scale 0 - 4)**



· **HMS-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.

- **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	2-10%
CAS: 26172-55-4	Methyl Chloro Isothiazolinone ⚠ Acute toxicity - oral 3, H301; Acute toxicity - dermal 2, H310; Acute toxicity - inhalation 2, H330; ⚠ Skin corrosion 1C, H314; Eye damage 1, H318; ⚠ Aquatic Acute 1, H400 (M=100); ⚠ Sensitization - skin 1A, H317 Specific concentration limits: Skin Corrosion 1C; H314: C ≥ 0.6 % Skin Irritation 2; H315: 0.06 % ≤ C < 0.6 % Eye Damage 1; H318: C ≥ 0.6 % Eye Irritation 2; H319: 0.06 % ≤ C < 0.6 % Sensitization - Skin 1A; H317: C ≥ 0.0015 %	<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:**

Not anticipated under normal use.

In case of unconsciousness place patient stably in the side position for transportation.

- **After skin contact:**

Immediately wash with water and soap and rinse thoroughly.

If skin irritation occurs, consult a doctor.

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- **After eye contact:**
Rinse opened eye for several minutes under running water.
If eye irritation occurs, consult a doctor.
- **After swallowing:**
Rinse mouth with water ensuring that rinse is not swallowed. Drink 2 glasses of water to dilute and induce vomiting by touching finger to the back of the victims throat. 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.

* **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:**
Wear assigned protective equipment. Keep unprotected persons away.
- **Environmental precautions:**
Do not allow product to reach sewage system or any water course.
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 contaminated material as waste according to section 13.
Ensure adequate ventilation.
Dispose of the collected material according to regulations.

· PAC-1:		
26172-55-4	Methyl Chloro Isothiazolinone	0.030 mg/m3
· PAC-2:		
26172-55-4	Methyl Chloro Isothiazolinone	1.8 mg/m3
· PAC-3:		
26172-55-4	Methyl Chloro Isothiazolinone	11 mg/m3

- **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.

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- **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 frozen
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **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.
The usual precautionary measures for handling chemicals should be followed.
Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing and wash before reuse.
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.
- **Protection of hands:**



Protective gloves

- **Material of gloves:**
Latex or vinyl
The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.
- **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:**



Goggles recommended during refilling.

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

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9 Physical and Chemical Properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Physical state** Liquid
- **Color:** Colorless
- **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:** Not determined.
- **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.
- **Danger of explosion:** Product does not present an explosion hazard.
- **Solvent content:**
- **VOC content:** 0.05 %
- **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.

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*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)

26172-55-4 Methyl Chloro Isothiazolinone

Inhalative	LC50/96 hours	1.6 mg/l (Trout)
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- **Primary irritant effect:**
- **On the skin:** May cause an allergic skin reaction.
- **On the eye:** No irritating effect.
- **Sensitization:** Sensitization possible through skin contact.
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparations:
Irritant
- **Interactive effects** No interactive effects between components are known.

· **Carcinogenic categories:**

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

None of the ingredients are listed.

· **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.

12 Ecological Information

· **Toxicity:**

· **Aquatic toxicity:**

50-21-5 Lactic Acid

EC50	130 mg/l (Daphnia)
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26172-55-4 Methyl Chloro Isothiazolinone

EC50	0.11-0.16 mg/l (Green algae)
	4.71 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.

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<ul style="list-style-type: none"> · Chemicals known to cause reproductive toxicity for females:
<p>None of the ingredients are listed.</p>
<ul style="list-style-type: none"> · Chemicals known to cause reproductive toxicity for males:
<p>None of the ingredients are listed.</p>
<ul style="list-style-type: none"> · Chemicals known to cause developmental toxicity:
<p>None of the ingredients are listed.</p>
<ul style="list-style-type: none"> · New Jersey Right-to-Know List:
<p>None of the ingredients are listed.</p>
<ul style="list-style-type: none"> · New Jersey Special Hazardous Substance List:
<p>None of the ingredients are listed.</p>
<ul style="list-style-type: none"> · Pennsylvania Right-to-Know List:
<p>None of the ingredients are listed.</p>
<ul style="list-style-type: none"> · Pennsylvania Special Hazardous Substance List:
<p>None of the ingredients are listed.</p>
<ul style="list-style-type: none"> · Carcinogenic categories:
<ul style="list-style-type: none"> · EPA (Environmental Protection Agency):
<p>None of the ingredients are listed.</p>
<ul style="list-style-type: none"> · TLV (Threshold Limit Value established by ACGIH):
<p>None of the ingredients are listed.</p>
<ul style="list-style-type: none"> · NIOSH-Ca (National Institute for Occupational Safety and Health):
<p>None of the ingredients are listed.</p>
<ul style="list-style-type: none"> · GHS label elements
<p>The product is classified and labeled according to the Globally Harmonized System (GHS).</p>
<ul style="list-style-type: none"> · Hazard pictograms:

<ul style="list-style-type: none"> · Signal word: Warning
<ul style="list-style-type: none"> · Hazard statements:
<p>H317 May cause an allergic skin reaction.</p>
<ul style="list-style-type: none"> · Precautionary statements:
<p>P261 Avoid breathing dust/fume/gas/mist/vapors/spray.</p>
<p>P272 Contaminated work clothing must not be allowed out of the workplace.</p>
<p>P280 Wear protective gloves.</p>
<p>P302+P352 If on skin: Wash with plenty of water.</p>
<p>P362+P364 Take off contaminated clothing and wash it before reuse.</p>
<p>P333+P313 If skin irritation or rash occurs: Get medical advice/attention.</p>
<p>P321 Specific treatment (see supplementary first aid instructions on this Safety Data Sheet).</p>
<p>P501 Dispose of contents/container in accordance with local/regional/national/international regulations.</p>
<ul style="list-style-type: none"> · National regulations:
<p>The product is not subject to be labelled according with the prevailing version of the regulations on hazardous substances.</p>

· **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.

· **Date of previous version** 02/02/2021

· **Version number of previous version:** 9

· **Date of preparation** 06/11/2025

· **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 - dermal 2: Acute toxicity – Category 2

Acute toxicity - inhalation 3: Acute toxicity – Category 3

Skin corrosion 1C: Skin corrosion/irritation – Category 1C

Skin irritation 2: Skin corrosion/irritation – Category 2

Eye damage 1: Serious eye damage/eye irritation – Category 1

Sensitization - skin 1: Skin sensitisation – Category 1

Sensitization - skin 1A: Skin sensitisation – Category 1A

Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1

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

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