

# Safety Data Sheet (SDS)

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

Issue date 01/22/2019

Reviewed on 01/22/2019

## 1 Identification

- **Product Identifier**
- **Trade Name: Artificial Perspiration DIN-EN/IEC 60068-2-70**
- **Product Number:** 1700-0542, 1700-0543
- **Relevant identified uses of the substance or mixture and uses advised against:**  
No further relevant information available.
- **Product Description:** Artificial Perspiration DIN-EN/IEC 60068-2-70
- **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:**
- **GHS label elements:** Non-Regulated Material
- **Hazard pictograms:** Non-Regulated Material
- **Signal word:** Non-Regulated Material
- **Hazard statements:** Non-Regulated Material
- **Classification system:**
- **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: 7732-18-5	Water, distilled water, deionized water	98-99%
CAS: 7647-14-5 RTECS: VZ4725000	Sodium Chloride	≤1.0%
CAS: 57-13-6 RTECS: YR 6250000	Urea	≤0.1%

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CAS: 7447-40-7	Potassium Chloride	≤0.1%
CAS: 7727-73-3	Sodium sulfate decahydrate	≤0.1%

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

· **Dangerous Components:**

CAS: 50-21-5 RTECS: OD 2800000	Lactic Acid	≤1.0%
CAS: 26172-55-4	Methyl Chloro Isothiazolinone <span style="font-size: small;">☠ Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; ☠ Skin Corr. 1B, H314; ☠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ☠ Skin Sens. 1, H317</span>	≤0.1%

- **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**
- **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:**  
Rinse out mouth and then drink plenty of water.  
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:**  
No further relevant information available.

**\* 5 Fire-Fighting Measures**

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, 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 is available.
- **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:** Dilute with plenty of water.
- **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 contaminated material as waste according to section 13.

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· **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:**

12125-02-9	Ammonium Chloride	20 mg/m <sup>3</sup>
26172-55-4	Methyl Chloro Isothiazolinone	0.6 mg/m <sup>3</sup>
57-13-6	Urea	30 mg/m <sup>3</sup>

· **PAC-2:**

12125-02-9	Ammonium Chloride	54 mg/m <sup>3</sup>
26172-55-4	Methyl Chloro Isothiazolinone	6.6 mg/m <sup>3</sup>
57-13-6	Urea	280 mg/m <sup>3</sup>

· **PAC-3:**

12125-02-9	Ammonium Chloride	330 mg/m <sup>3</sup>
26172-55-4	Methyl Chloro Isothiazolinone	40 mg/m <sup>3</sup>
57-13-6	Urea	1,700 mg/m <sup>3</sup>

### 7 Handling and Storage

· **Handling**

· **Precautions for safe handling:**

- Ensure good ventilation/exhaustion at the workplace.
- 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 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

· **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.
- Avoid contact with the eyes and skin.
- Wash hands before breaks and at the end of work.

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Immediately remove all soiled and contaminated clothing and wash before reuse.

· **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

· **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:**

Colorless

· **Odour:**

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.

· **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.

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· **Solubility in / Miscibility with:**

**Water:** Aqueous solution

· **Partition coefficient (n-octanol/water):** Not determined.

· **Viscosity:**

**Dynamic:** Not determined.

**Kinematic:** Not determined.

· **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:**

· <b>LD/LC50 values that are relevant for classification:</b>		
<b>26172-55-4 Methyl Chloro Isothiazolinone</b>		
Inhalative	LC50/96 hours	1.6 mg/l (Trout)

· **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):**

Substance is not listed.

None of the ingredients are listed.
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· **NTP (National Toxicology Program):**

None of the ingredients are listed.
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· **OSHA-Ca (Occupational Safety & Health Administration):**

None of the ingredients are listed.
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### 12 Ecological Information

· **Toxicity:**

· <b>Aquatic toxicity:</b>	
<b>26172-55-4 Methyl Chloro Isothiazolinone</b>	
EC50	0.11-0.16 mg/l (Green algae)

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	4.71 mg/l (Daphnia)
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- **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.

### 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.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

### 14 Transport Information

- **UN-Number:**
- **DOT, ADN, IMDG, IATA** Non-Regulated Material
- **ADR/ADN** Non-Regulated Material  
Not Regulated
- **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):**

<b>Section 355 (extremely hazardous substances):</b>	None of the ingredients are listed.
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<b>Section 313 (Specific toxic chemical listings):</b>	None of the ingredients are listed.
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<b>· TSCA (Toxic Substances Control Act):</b>		
7647-14-5	Sodium Chloride	
50-21-5	Lactic Acid	
12125-02-9	Ammonium Chloride	
26172-55-4	Methyl Chloro Isothiazolinone	
7447-40-7	Potassium Chloride	
57-13-6	Urea	
7732-18-5	Water, distilled water, deionized water	
<b>· California Proposition 65:</b>		
<b>· Chemicals known to cause cancer:</b>		
None of the ingredients are listed.		
<b>· Chemicals known to cause reproductive toxicity for females:</b>		
None of the ingredients are listed.		
<b>· Chemicals known to cause reproductive toxicity for males:</b>		
None of the ingredients are listed.		
<b>· Chemicals known to cause developmental toxicity:</b>		
None of the ingredients are listed.		
<b>· New Jersey Right-to-Know List:</b>		
12125-02-9	Ammonium Chloride	
<b>· New Jersey Special Hazardous Substance List:</b>		
None of the ingredients are listed.		
<b>· Pennsylvania Right-to-Know List:</b>		
12125-02-9	Ammonium Chloride	
<b>· Pennsylvania Special Hazardous Substance List:</b>		
12125-02-9	Ammonium Chloride	E
<b>· Carcinogenic categories:</b>		
<b>· EPA (Environmental Protection Agency):</b>		
57-13-6	Urea	II
<b>· TLV (Threshold Limit Value established by ACGIH):</b>		
None of the ingredients are listed.		
<b>· NIOSH-Ca (National Institute for Occupational Safety and Health):</b>		
None of the ingredients are listed.		
<b>· GHS label elements</b> Non-Regulated Material		
<b>· Hazard pictograms:</b> Non-Regulated Material		
<b>· Signal word:</b> Non-Regulated Material		
<b>· Hazard statements:</b> Non-Regulated Material		
<b>· National regulations:</b>		
None of the ingredients are listed.		
<b>· Chemical safety assessment:</b> 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  
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this information and the suitability of the material or product for any particular purpose.

· **Date of preparation / last revision:** 01/22/2019 / 13

· **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)

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 Tox. 3: Acute toxicity – Category 3

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

Skin Sens. 1: Skin sensitisation – Category 1

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

Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1

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

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