

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

Issue date 04/05/2021 Reviewed on 04/05/2021

#### Identification

- · Product Identifier
- · Trade Name: Artificial Perspiration, ISO 3160 (stabilized/non-stabilized)
- Product Number: 1700-0026; 1700-0520; 1700-0526; 1700-0545, 1700-0532; 1700-0557; 1700-0310
- · Relevant identified uses of the substance or mixture and uses advised against:

No further relevant information available.

- · Product Description: Artificial perspiration manufactured according to ISO 3160
- 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.

- 1.5 % 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)



Health = 0Fire = 0

Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = \*0 Fire = 0

REACTIVITY O Physical Hazard = 0

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

#### Composition/Information on Ingredients

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

· Dangerous (	Components:
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CAS: 12125-02-9 RTECS: BP 4550000 Ammonium Chloride

Acute Toxicity - Oral 4, H302; Acute Toxicity - Inhalation 4, H332; Eye Irritation 2A, H319

≤2.5%

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CAS: 50-21-5	Lactic Acid	≤2.5%
RTECS: OD 2800000	Acute Toxicity - Inhalation 3, H331; 🔷 Eye Damage 1, H318; 🕚 Skin	
	Irritation 2, H315	

#### · 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.

· After eye contact:

Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.

If easy to do so, remove contact lenses if worn.

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 vomitting by touching finger to the back of the victims throat. Get medical assistance immediately.

- · 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: Use fire fighting measures that suit the environment.
- · 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: Not required.
- · Environmental precautions:

Inform respective authorities in case of seepage into water course or sewage system.

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).

Ensure adequate ventilation.

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.

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See Section 13 for disposal information.

PAC-1:				
12125-02-9	Ammonium Chloride	20 mg/m <sup>3</sup>		
57-13-6	Urea	30 mg/m³		
64-19-7	Acetic Acid	5 ppm		
PAC-2:				
12125-02-9	mmonium Chloride 54 m			
57-13-6	Urea	280 mg/m³		
64-19-7	Acetic Acid	35 ppm		
PAC-3:				
12125-02-9	Ammonium Chloride	330 mg/m³		
57-13-6	Urea	1,700 mg/m <sup>s</sup>		
64-19-7	Acetic Acid	250 ppm		

#### 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.

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 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 following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituents have no known exposure limits.

# **12125-02-9 Ammonium Chloride**REL Short-term value: 20 mg/m³

Long-term value: 20 mg/m³
Long-term value: 20 mg/m³
TLV Short-term value: 20 mg/m³
Long-term value: 10 mg/m³

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

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- · 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.

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.

Avoid contact with the eyes and skin.

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
- · Limitation and supervision of exposure into the environment:

Keep away from drains, surface and ground waters.

Avoid release into the environment.

### 9 Physical and Chemical Properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form:
Color:
Colorless
Odor:
Odor threshold:
Liquid
Colorless
Odorless
Not determined.

· pH-value @ 20 °C (68 °F): 4.7

· Change in condition

Melting point/Melting range: Not determined.

Boiling point/Boiling range: ≥100 °C (≥212 °F)

· Flash point: None

Flammability (solid, gaseous): Not applicable.Auto igniting: Not applicable

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#### Trade Name: Artificial Perspiration, ISO 3160 (stabilized/non-stabilized)

· **Decomposition temperature:** Not determined.

· Ignition temperature: 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 @ 20 °C (68 °F):** ≤23 hPa (≤17.3 mm Hg)

• **Density @ 20 °C (68 °F):** 1.0376 g/cm³ (8.6588 lbs/gal)

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

· Solubility in / Miscibility with:

Water: Aqueous solution

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

· Viscosity:

**Dynamic:** Not determined. **Kinematic:** Not determined.

· Solvent content:

Organic solvents: 0.3 % VOC content: 0.35 %

· 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:			
12125-02-9 Ammonium Chloride			
Oral	LD50	1,650 mg/kg (Rat)	
Inhalative	LC50/96 hours	3.98 mg/l (Trout)	
50-21-5 La	actic Acid		
Oral	LD50	3,543 mg/kg (Rat)	
Dermal	LD50	>2,000 mg/kg (rabbit)	
Inhalative	LC50/4 h	7.94 mg/l (Rat)	

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- · Primary irritant effect:
- On the skin:

Irritant to skin and mucous membranes.

May cause an allergic skin reaction.

- On the eye: 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

- 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.

#### Ecological Information

- · Toxicity:
- Aquatic toxicity:

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

#### 50-21-5 Lactic Acid

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.
- · Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

Harmful to aquatic organisms

- Results of PBT and vPvB assessment:
- · **PBT**: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects: No further relevant information available.

#### 3 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 scruber. This product can also be sent to an EPA approved waste disposal facility. Must not be disposed of together with household waste. Do not allow product to reach sewage system.

Observe all federal, state and local environmental regulations when disposing of this material.

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Trade Name: Artificial Perspiration, ISO 3160 (stabilized/non-stabilized)

- · 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, 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: No further relevant information available.
- · SARA (Superfund Amendments and Reauthorization):
- · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

· Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act):

All components have the value 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:

12125-02-9 Ammonium Chloride

64-19-7 Acetic Acid

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#### Trade Name: Artificial Perspiration, ISO 3160 (stabilized/non-stabilized)

· New Jersey	Special Hazardous Substance List:				
64-19-7 Ace	etic Acid	CO, F2			
· Pennsylvania Right-to-Know List:					
12125-02-9	Ammonium Chloride				
64-19-7	Acetic Acid				
Pennsylvania Special Hazardous Substance List:					
12125-02-9	Ammonium Chloride	E			
64-19-7	Acetic Acid	E			
· Carcinogen	ic categories:				
· EPA (Enviro	· EPA (Environmental Protection Agency):				
57-13-6 Ure	57-13-6 Urea				
· TLV (Thresi	TLV (Threshold Limit Value established by ACGIH):				
None of the	None of the ingredients are listed.				
· NIOSH-Ca (National Institute for Occupational Safety and Health):					

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

None of the ingredients are listed.

- 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.

#### <u>16 Other Information</u>

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)

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





Safety Data Sheet (SDS)
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Acute Toxicity - Oral 4: Acute toxicity - Category 4
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

\* Data compared to the previous version altered.

SDS created by MSDS Authoring Services www.msdsauthoring.com +1-877-204-9106