SAFETY DATA SHEET

Section 1 - Chemical Product and Company Information

Product Name: Aveho
Product Type: Odor Removal Technology
Emergency 24-hour Phone (English): CHEMTREC Number +(800) 424-9300
11542 Davis Creek Court
Jacksonville, Florida 32256 USA

e-mail: info@avehotechnology.com
Web: avehotechnology.com
Telephone: 877-422-8027 • 904-854-4428 (M-F 8:00 a.m. - 5:00 p.m. EST)
Fax: 904-292-1325

Section 2 - Hazards Identification

<table>
<thead>
<tr>
<th>Physical</th>
<th>Health</th>
<th>Environmental</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not hazardous</td>
<td>Not hazardous</td>
<td>Not hazardous</td>
</tr>
</tbody>
</table>

This product is not hazardous in accordance with US OSHA 29CFR1910.1200 (Hazcom 2012), Canada Hazardous Products Regulations (WHMIS 2015), Regulation (EC) No. 1272/2008 (CLP) and the Globally Harmonized System (GHS).

Section 3 - Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS number / EINECS Number / REACH Reg. Number</th>
<th>% (w/w)</th>
<th>CLP/GHS Classification (1272/2008)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Copper Chloride</td>
<td>10125-13-0 / 231-210-2</td>
<td>&lt;0.1%</td>
<td>Acute Toxicity Category 4 (H302, H312) Skin Irritation 2 (H315) Eye Damage Category 1 (H318) Aquatic Acute Toxicity Category 1 (H400) Aquatic Acute Toxicity Category 2 (H411)</td>
</tr>
<tr>
<td>Amorphous silica, colloidal nanoparticles</td>
<td>7631-86-9 / 231-545-4</td>
<td>&lt;1%</td>
<td>Not classified as hazardous</td>
</tr>
<tr>
<td>Non-Hazardous Ingredients and ingredients below cut-off concentrations</td>
<td>Mixture Balance</td>
<td></td>
<td>Not classified as hazardous</td>
</tr>
</tbody>
</table>
Section 4 - First Aid Measures

Inhalation: No first aid should be needed. If irritation occurs or symptoms develop, get medical attention.

Skin Contact: Wash skin with soap and water. If irritation develops and persists, get medical attention.

Eye Contact: Immediately flush eyes with water while lifting the upper and lower lids. Get medical attention if irritation persists.

Ingestion: Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to a person who is unconscious or convulsing. Get medical attention if symptoms develop.

Symptoms: May cause mild eye and skin irritation. Ingestion may cause gastrointestinal distress. Inhalation of mists may cause upper respiratory tract irritation.

Section 5 - Fire Fighting Measures

Extinguishing media: Use any extinguishing media suitable for the surrounding fire.

Unusual fire or explosion hazards: Product is not flammable or combustible. Thermal decomposition products that may develop after the water has evaporated may include copper oxides and chlorine compounds.

Special firefighting procedures: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing for all fires involving chemicals. Cool fire exposed containers with water.

Section 6 - Accidental Release Measures

Use personal protection recommended in Section 8, isolate the hazard area and deny entry to unnecessary and unprotected personnel.

Environmental precautions: Prevent spill from entering sewers and water courses. Report releases as required by local and national authorities.

Clean-up methods: Contain and collect with an inert absorbent material. Place in an appropriate container for disposal. If product has dried, collect dry residue in a manner that minimizes the generation of dust.

Section 7 - Handling & Storage

Handling: Avoid breathing spray mists. Avoid contact with eyes, skin and clothing. Wash thoroughly with soap and water after handling.

Storage: Do not store below 40° F (5° C).

Specific Uses: Industrial uses - Odor Elimination. Professional uses - Odor Elimination.
Section 8 - Exposure Controls/Personal Protection

Employers should complete an assessment of all workplaces to determine the need for, and selection of, proper exposure controls and protective equipment for each task performed.

EXPOSURE CONTROLS:
Appropriate Engineering Controls:
Use with adequate general or local exhaust ventilation to minimize exposures levels.

Personal Protective Measures
Respiratory controls: None needed under normal use conditions. If exposure levels are excessive and irritation is experienced, an approved particulate respirator is recommended. Selection of respiratory protection depends on the contaminant type, form and concentration. Select in accordance with local regulations and good Industrial Hygiene practice.

Skin protection: Impervious gloves recommended if needed to avoid prolonged skin contact.

Eye/face protection: Safety glasses or goggles recommended if needed to avoid eye contact.

Hazardous Component(s) | US OEL | EU IOEL | German Limits | UK Limits
--- | --- | --- | --- | ---
Copper Chloride (as Cu) | 1 mg/m³ TWA OSHA PEL/ACGIH TLV | None Established | 0.01 mg/m³ (respirable) TWA 0.02 mg/m³ (respirable) STEL | 1 mg/m³ TWA 2 mg/m³ STEL
Amorphous silica, colloidal nanoparticles* | 80 mg/%SiO₂ TWA OSHA PEL | None Established | 4 mg/m³ (inhalable) TWA | 6 mg/m³ (inhalable), 2.4 mg/m³ (respirable) TWA

* The exposure limits listed may not adequately protect workers from effects of exposure to nano-scale materials.

Section 9 - Physical & Chemical Properties

Appearance (Physical state, Color, Etc.): Blue liquid
Odor: No odor
Odor threshold: Not applicable
pH: 7-8
Vapor pressure: Same as water
Relative density: 1.1 - 1.2
Boiling point/range: 212°F (100°C)
Melting point/ range: 32°F (0°C)
Vapor density: Same as water
Flash point: None
Flammable (solid, gas): Not applicable

Flammable limits: LEL: None
Auto-ignition temperature: None
Evaporation rate: Same as water
Solubility: Soluble in water
Partition coefficient (n-octanol/water): Not available
VOC content: 0%
Viscosity: Same as water
Decomposition temperature: Not applicable
Explosive Properties: None
UEL: Oxidizing Properties: Not Oxidizing
Section 10 - Stability & Reactivity

Stability: Stable.
Hazardous reactions: None known.
Hazardous decomposition products: Thermal decomposition products that may develop after the water has evaporated may include copper oxides and chlorine compounds.
Incompatible materials: None known.
Reactivity: Not reactive.
Conditions to avoid: Extreme heat; temperatures below 40° F (5° C)

Section 11 - Toxicological Information

Potential Health Effects/Symptoms
Inhalation: Inhalation of aerosol may cause irritation to the upper respiratory tract. This product contains nanoparticles. The effects of inhaling nanoparticles has not been well studied. Avoid generating and inhaling airborne particulates in the form of dusts or mists.
Ingestion: May cause mucous membrane and gastrointestinal irritation and other adverse effects.
Skin contact: Prolonged skin contact may cause mild skin irritation.
Eye contact: Contact may cause mild irritation with redness and tearing.
Chronic Effects: Prolonged overexposure to copper may cause blood, liver and kidney damage. Prolonged overexposure to dust or mist of colloidal silica (synthetic amorphous silica) may cause lung damage (pneumoconiosis).

Sensitization: Components are not known to be sensitizer.
Skin corrosion/irritation: Inhalation of aerosol may cause irritation to the upper respiratory tract. This product contains nanoparticles. The effects of inhaling nanoparticles has not been well studied. Avoid generating and inhaling airborne particulates in the form of dusts or mists.
Eye damage/irritation: Copper chloride causes eye damage but the product is not classified based on the low concentration.
Respiratory Irritation: No data available. Expected to cause only temporary irritation.
Respiratory Sensitization: Components are not respiratory sensitizers.
Skin Sensitization: None of the components have been shown to cause skin sensitization.
Germ Cell Mutagenicity: Components are not germ cell mutagens.
Carcinogenicity: None of the components of this product are listed as carcinogens by IARC, NTP, US OSHA or the EU CLP or classified as carcinogens under the GHS.
Reproductive Toxicity: No adverse effects are expected. Components are not reproductive toxins.

Specific Target Organ Toxicity:
Single Exposure: No adverse effects are expected.
Repeat Exposure: No data available.

Acute Toxicity Values:
Copper chloride: LD50 oral rat 584 mg/kg, Dermal rat LD50 1224 mg/kg (read-across)
Section 12 - Ecological Information

Toxicity: Copper Chloride: 96 hr LC50 Oncorhynchus mykiss 0.068-0.094 mg/L, 48 hr EC50 daphnia magna 0.0338 – 0.792 mg/L, 72 hr ErC50 Phaeodactylum tricornutum 0.0057 mg/L. Copper chloride is classified in category 1 for acute toxicity with a M factor of 10 and in category 2 of chronic toxicity.

Persistence and degradability: Biodegradation does not apply to inorganic substances.

Results of PBT and vPvB assessment: Components are not classified as PBT or vPvB.

Section 13 - Disposal Considerations

Recommended method of disposal: Dispose in accordance with all local and national regulations. No specific disposal method is recommended. It is the responsibility of the user, at the time of disposal, to determine whether the product meets the criteria for hazardous waste.

Section 14 - Transport Information

<table>
<thead>
<tr>
<th>14.1 UN Number</th>
<th>14.2 UN Proper Shipping Name</th>
<th>14.3 Hazard Class(s)</th>
<th>14.4 Packing Group</th>
<th>14.5 Environmental Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td>US DOT</td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Canadian TDG</td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EU ADR/RID</td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMDG</td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IATA/ICAO</td>
<td>Not Regulated</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Section 15 - Regulatory Information

United States Regulatory Information

TSCA 8 (b) Inventory Status: All components are listed or are exempt from listing on the Toxic Substances Control Act Inventory.

TSCA 12 (b) Export Notification: None above reporting de minimis

CERCLA/SARA Section 302 EHS: None.

CERCLA/SARA Section 311/312: Not Hazardous.

CERCLA/SARA Section 313: This Product Contains the Following Chemicals Subject to Annual Release Reporting Requirements Under the SARA Section 313 (40 CFR 372). Copper Compounds <0.1%

California Proposition 65: This product does not contain chemicals listed per the Safe Drinking Water and Toxic Enforcement Act of 1986.
California Proposition 65: This product does not contain chemicals listed per the Safe Drinking Water and Toxic Enforcement Act of 1986.

International Regulations

Canadian Environmental Protection Act: All of the components are listed on the Canadian Domestic Substances List.

European Union: All of the components are listed on the European Inventory of New and Existing Chemical Substances (EINECS) inventory.

Australia: All of the ingredients of this product are listed on the Australian Inventory of Chemical Substances (AICS).

Korea: All of the components of this product are listed on the Korean Existing Chemical List (KECL).

Japan: All of the components of this product are listed on the Japanese Existing and New Chemical Substances List (ENCS).

New Zealand: One or more of the components of this product are not listed on the New Zealand Inventory of Chemicals (NZIoC).

Philippines: All of the components of this product are listed on the Philippine Inventory of Chemicals and Chemical Substances (PICCS).

Taiwan: All the components are listed on the existing chemicals inventory.

Section 16 - Other Information

CLP/GHS Classification and H Phrases for Reference (See Section 3)

H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H411 Toxic to aquatic life with long lasting effects.

SDS Revision History: Changes to Sections 3, 8 and 11.
Date of SDS preparation: October 3, 2015
Date of previous revision: September 1, 2015

Further information

This safety datasheet only contains information relating to safety and does not replace any product information or product specification.

The information this safety data sheet is believed to be accurate and is the best information available to UltraTech International, Inc. This document is intended only as a guide to the appropriate precautions to handling a chemical by a person trained in chemical handling. UltraTech International makes no warranty of merchantability and any other warranty, express or implied with respect to such information or the product to which it relates, and we assume no liability resulting from the use, misuse or handling of the product to which the safety data sheet relates. Users and handlers of this product should make their own investigations to determine the suitability of the information provided herein for their own purposes.