

Safety Data Sheet

according to OSHA HCS (29CFR 1910.1200) and WHMIS 2015 Regulations

Revision: August 20, 2020

1 Identification

- Product identifier
- Trade name: Ionopure Air Sanitizer
- Other means of identification: No other identifiers
- Product Codes:
IPAS3500ML – 3.5 Litre
IPASUP2000ML2 – 2x2 Litre
- Recommended use and restriction on use
- Recommended use:
Use of the product is the most efficient way to sanitize large spaces with minimal effort. It sanitizes the air, as well as surfaces. See user guide for directions.
- Restrictions on use: No relevant information available.
- Details of the supplier of the Safety Data Sheet
- Manufacturer/Supplier:
Ionogen, LLC
6321 Baum Drive
Knoxville, TN 37919
USA
866-600-1242
- Emergency telephone number: 866-600-1242

2 Hazard(s) identification

- Classification of the substance or mixture
The product is not classified as hazardous according to the Globally Harmonized System (GHS).

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- Label elements
 - GHS label elements Not regulated.
 - Hazard pictograms: Not regulated.
 - Signal word: Not regulated.
 - Hazard statements: Not regulated.
 - Precautionary statements: Not regulated.

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- Other hazards There are no other hazards not otherwise classified that have been identified.

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3 Composition/information on ingredients

· Chemical characterization: Mixtures

· Components:

7732-18-5	Water	>90%
7790-92-3	Hypochlorous acid	<1%
	Met. Corr.1, H290; Skin Corr. 1B, H314; Eye Dam. 1, H318 STOT SE 3, H335	

· Additional information:

For the wording of the listed Hazard Statements, refer to section 16.

For the listed ingredient(s), the identity and/or exact percentage(s) are being withheld as a trade secret.

4 First-aid measures

· Description of first aid measures

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(Cont'd. of page 1)

· After swallowing:

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; immediately call for medical help.

· Most important symptoms and effects, both acute and delayed:

Gastric or intestinal disorders when ingested. Slight irritant effect on eyes.

· Indication of any immediate medical attention and special treatment needed:

If medical advice is needed, have product container or label at hand.

5 Fire-fighting measures

· Extinguishing media

· Suitable extinguishing agents:

The product is not flammable.

Use fire fighting measures that suit the environment.

· For safety reasons unsuitable extinguishing agents: No relevant information available. · Advice for firefighters

· Protective equipment:

Wear self-contained respiratory protective device.

Wear fully protective suit.

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6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures
 - Ensure adequate ventilation.
 - Use personal protective equipment as required.
- Environmental precautions
 - Product does not present any known environmental hazards.
- Methods and material for containment and cleaning up
 - Wipe up small spills with paper towel and discard.
 - For larger spills, add sawdust, chalk or other inert binding material, then sweep up and discard. 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.

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(Cont'd. of page 2)

7 Handling and storage

- Handling
 - Precautions for safe handling:
 - Handle with care.
 - Keep out of reach of children.
- Conditions for safe storage, including any incompatibilities
- Requirements to be met by storerooms and receptacles:
 - Store in cool, dry conditions in well sealed receptacles.
- Information about storage in one common storage facility: No relevant information available.
- Specific end use(s) No relevant information available.

8 Exposure controls/personal protection

- Control parameters
- Components with limit values that require monitoring at the workplace:
 - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- Exposure controls
 - General protective and hygienic measures:
 - Not required under normal conditions of use.
 - Engineering controls: Provide adequate ventilation.
 - Breathing equipment: Not required under normal conditions of use.
 - Protection of hands:
 - Not required under normal conditions of use.
 - Eye protection: Not required under normal conditions of use.
 - Body protection: Not required under normal conditions of use.
- Limitation and supervision of exposure into the environment
 - No relevant information available.
- Risk management measures No relevant information available.

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9 Physical and chemical properties

- Information on basic physical and chemical properties
- Appearance:
 - Form: Liquid
 - Color: Clear
- Odor: Slight Chlorine-like
- Odor threshold: Not determined.
- pH-value: 6.8
- Melting point/Melting range: Not determined.

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- Boiling point/Boiling range: 100 °C (212 °F)
- Flash point: The product is not flammable.
- Flammability (solid, gaseous): Not applicable.
- Auto-ignition temperature: Not determined.
- Decomposition temperature: Not determined.
- Danger of explosion: Product does not present an explosion hazard.
- Explosion limits
 - Lower: Not determined.
 - Upper: Not determined.
- Oxidizing properties: Non-oxidizing.
- Vapor pressure: Not determined.
- Density:
 - Relative density: Not determined. Vapor density: Not determined. Evaporation rate: Not determined.
- Solubility in / Miscibility with Water: Fully miscible.
- Partition coefficient (n-octanol/water): Not determined.
- Viscosity
 - Dynamic: Not determined. Kinematic: Not determined.
- Other information: No relevant information available.

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10 Stability and reactivity

- Reactivity: No relevant information available.
- Chemical stability: Stable under normal temperatures and pressures.
- Thermal decomposition / conditions to be avoided:
No decomposition if used and stored according to specifications.
- Possibility of hazardous reactions Contact with strong acids releases hydrogen chloride. · Conditions to avoid Excessive heat.
- Incompatible materials Strong acids

11 Toxicological information

- Information on toxicological effects
- Acute toxicity: Based on available data, the classification criteria are not met.
- LD/LC50 values that are relevant for classification: None.
- Primary irritant effect:
- On the skin: Based on available data, the classification criteria are not met.

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On the eye: Based on available data, the classification criteria are not met.

· Sensitization: Based on available data, the classification criteria are not met.

· 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.

· Probable route(s) of exposure:

- Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- STOT-repeated exposure: Based on available data, the classification criteria are not met.
- Aspiration hazard: Based on available data, the classification criteria are not met.

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12 Ecological information

- Toxicity
- Aquatic Toxicity: None in vaporized form.
- Persistence and degradability No relevant information available.
- Bioaccumulative potential: No relevant information available.
- Mobility in soil: No relevant information available.
- Additional ecological information
- General notes:
 - Not intended for use in proximity to amphibians and reptiles.
- Other adverse effects No relevant information available.

13 Disposal considerations

- Waste treatment methods
- Recommendation:

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes.
- Uncleaned packagings
- Recommendation: Disposal must be made according to official regulations.

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14 Transport information

- | | |
|---|-----------------|
| · UN-Number | |
| · DOT, ADR/RID/ADN, IMDG, IATA | Not regulated. |
| · UN proper shipping name | |
| · DOT, ADR/RID/ADN, IMDG, IATA | Not regulated. |
| · Transport hazard class(es) | |
| · DOT, ADR/RID/ADN, IMDG, IATA | |
| · Class | Not regulated. |
| · Packing group | |
| · DOT, ADR/RID/ADN, IMDG, IATA | Not regulated. |
| · Environmental hazards | |
| · Marine pollutant: | No |
| · Special precautions for user | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |

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15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- United States (USA)
- SARA

- Section 302 (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 ingredients are listed or exempt.

- Proposition 65 (California)

- Chemicals known to cause cancer:

None of the ingredients are listed.

- Chemicals known to cause developmental toxicity for females:

None of the ingredients are listed.

- Chemicals known to cause developmental toxicity for males:

None of the ingredients are listed.

- Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

- EPA (Environmental Protection Agency):

(Cont'd. on page 7)

(Cont'd. of page 6)

None of the ingredients are listed.

- IARC (International Agency for Research on Cancer):

None of the ingredients are listed.

- Canadian Domestic Substances List (DSL):

All ingredients are listed or exempt.

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16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Abbreviations and acronyms:

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

CAS: Chemical Abstracts Service (division of the American Chemical Society)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

OSHA: Occupational Safety & Health Administration

Met. Corr.1: Corrosive to metals – Category 1

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

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

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· Sources

Website, European Chemicals Agency (echa.europa.eu)

Website, US EPA Substance Registry Services (ofmpub.epa.gov/sor internet/registry/substreg/home/overview/home.do)

Website, Chemical Abstracts Registry, American Chemical Society (www.cas.org)

Patty's Industrial Hygiene, 6th ed., Rose, Vernon, ed. ISBN: 978-0-470-07488-6

Casarett and Doull's Toxicology: The Basic Science of Poisons, 8th Ed., Klaasen, Curtis D., ed., ISBN: 978-0-07-176923-5.

Safety Data Sheets, Individual Manufacturers

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