

# Material Safety Data Sheet

May be used to comply with OSHA's Hazard Communications Standard, 29 CFR 1910.1200

## Section I. Product Identification

**Trade Name:** ion.a.Clean™**Generic Name:** ionized, deoxidized water**Manufacturer:**Castle International  
10120 SW Nimbus Ave, Suite C-7  
Portland OR 97223**Telephone****Number:**  
877 468-0888

## Section II. Ingredients/ Identity Information

COMPONENT	CAS NUMBER	WT %	ACGIH TLV/TWA	OSHA TWA
Water	7732-18-5	>99	Not established	Not established
Sodium silicate	1344-09-8	<0.1	Not established	Not established

Contains no ingredients regulated by SARA 313. All ingredients are TSCA registered.

## Section III. Physical/Chemical Characteristics

**Boiling Point:** 100 °C (212 °F)**Freezing Point:** 0 °C (32 °F)**Specific Gravity:** 1.00**Vapor Pressure:** 17.5 mm Hg**VOC: (weight percent):** 0%**pH:** 10-12**Solubility in Water:** completely dispersible**Vapor Density:** 0.6 (air=1)**Evaporation Rate:** 0.1 (butyl acetate = 1)**Appearance:** translucent colorless liquid**Odor:** none

## Section IV. Fire and Explosion Hazard Data

**Flash Point (TCC):** no flash**Flammable Limits in Air, % by Volume:**

Not applicable

**Special Fire Fighting Procedures:** none required**Extinguishing Media:** appropriate to surrounding fire**NFPA 702 Ratings:**

Flammability=0; Health=0; Reactivity=0

**Autoignition Temperature:** does not autoignite**Unusual Fire and Explosion Hazards:**

heat from a surrounding fire could cause the product to build pressure inside of its storage container, resulting in rupture of container and venting of super-heated steam

## Section V. Reactivity Data

**Stability:** stable under normal conditions**Conditions to avoid:** excessive heat**Hazardous Decomposition Products:**

none

**Hazardous Polymerization:** will not occur**Conditions to avoid:** keep from freezing**Chemical Incompatibility:** acids**Corrosive to Metal:** no**Oxidizer:** no

## Section VI. Environmental Data

**Aquatic Toxicity:** no acute aquatic toxicity; 96 hour LC<sub>50</sub> (*oryzias latipes*) > 100,000 mg/L

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**Section VII. Health Hazard Data**

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<b>ROUTE OF EXPOSURE:</b>	<b>EFFECTS OF ACUTE OVEREXPOSURE:</b>	<b>EFFECTS OF CHRONIC OVEREXPOSURE:</b>
<b>Skin Contact:</b>	Non-irritating; In Vitro Irritation Assay Human Irritancy Equivalent: 0.00-0.90	None known
<b>Eye Contact:</b>	Mild Irritant; In Vitro Irritation Assay Draize Equivalent Score: 0.0-12.5	None known
<b>Ingestion:</b>	Non-toxic LD <sub>50</sub> rat >5000 mg/kg	None known
<b>Inhalation:</b>	Not a likely route of exposure	None known

**Medical Conditions Which May be Aggravated:** none known

**Carcinogenicity:** no IARC, NTP, or OSHA classification data of substances in this product

**EMERGENCY AND FIRST AID PROCEDURES:**

**Eyes:** Remove any contact lenses and flush eyes with cold water.

**Skin:** Rinse exposed skin with water.

**Ingestion:** Allow victim to drink 2 glasses of water or milk to dilute the product. Do not induce vomiting. If vomiting does occur, have victim lean forward to reduce risk of aspiration.

**Note to Physician:** none

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**Section VIII. Precautions for Safe Handling and Use**

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**Steps to be Taken in Case Material is Spilled or Released:** caution—spilled area may be slippery if wet; dike or dam large spills and pump to containers or soak up on inert absorbent.

**Precautions to Be Taken in Handling and Storing:** store in a clean dry place

**Reportable Quantity if Spilled:** Not regulated as a RCRA waste.

**Waste Disposal Method:** Not a hazardous waste. Liquid product may be disposed of down sanitary sewer line. Empty containers may be sanitary landfilled, or rinsed and recycled. Absorbent used to soak up spills may be sanitary landfilled.

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**Section IX. Control Measures**

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**Respiratory Protection, Eye Protection, Skin Protection, Ventilation:** Individuals using this product in a commercial janitorial application and individuals handling large volumes of this product (production and packaging) should wear eye protection

**Work/Hygienic Practices:** customary personal hygiene measures recommended: wash hands after using; keep working area separate from eating area

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**Section X. Labeling Information**

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**Manufacturer:** Castle International

**Use Statement:** Use for removing dirt, stains, odors, grease and grime

**Instructions:**

Dilute with plain water depending upon usage (see manufacturer's guidelines). Spray or Squirt onto soiled surface. Allow to penetrate for 30 seconds, then wipe, rinse or air dry depending upon application.

**Signal Word:** none required

**Physical Hazards:** no physical hazards with normal use

**Health Hazards:** May cause temporary eye irritation.

**Precautionary Measures:** Avoid contact with eyes

**State Right to Know Warning:** none required

**DOT Information:**

**Hazard Class:**

Not regulated

**Proper Shipping:**

Not regulated