

ICX Restore™
by A-dec, Inc.
SAFETY DATA SHEET

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
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1.1 Product Identifier:

Trade name: ICX Restore

SDS Date of Preparation: 2024/06/06

1.2 Relevant Identified Uses of the Substance or Mixture and Uses Advised Against:

Product Use: Used as a dental unit waterline shock treatment. Use only according to label directions.

Uses Advised Against: None known.

1.3 Details of the Supplier of the Safety Data Sheet:

Manufacturer: A-dec, Inc.
2601 Crestview Dr.
Newberg, OR 97132
Tel: 1.800.547.1883 within USA/CAN
Fax: 503-537-2702
Website: www.a-dec.com

1.4 Emergency Telephone Number:

Emergency Phone: Tel: 1.800.547.1883 within USA/CAN
1-800-535-5053 (INFOTRAC)

SECTION 2: HAZARDS IDENTIFICATION
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2.1 Classification of the Substance or Mixture:

GHS Classification:

Solution 1

Physical:	Health:	Environment:
Not Hazardous	Not Hazardous	Not Hazardous

2.2 Label Elements:

None Required

Solution 2

Physical:	Health:	Environment:
Not Hazardous	Eye Irritation Category 2B (H320)	Not Hazardous

2.2 Label Elements:

Warning!

Contains: Sodium Dodecyl Sulfate, Maleic Acid

Statements of Hazard

H320 Causes eye irritation.

Precautionary Phrases

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice.

2.3 Other Hazards: None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixture:

Solution 1

Chemical Name	CAS#	EINECS#	Classification	Amount (% wt/vol)
Hydrogen Peroxide	7722-84-1	231-765-0	Ox. Liq 1 (H271) Acute Tox 4 (H302, H332) Skin Corr 1A (H314) Eye Dam 1 (H318) STOT SE 3 (H335) Aquatic Chronic 3 (H412)	1-5%
Non-Hazardous Ingredients	Mixture	Mixture	Not Hazardous	Balance

Solution 2

Chemical Name	CAS#	EINECS#	Classification	Amount (% wt/vol)
Sodium Dodecyl Sulfate	151-21-3	205-788-1	Acute Tox 4 (H302) Skin Irrit 2 (H315) Eye Dam 1 (H318)	1-5%
Maleic Acid	110-16-7	203-742-5	Acute Tox 4 (H302) Skin Irrit 2 (H315) Eye Irrit 2 (H319) Skin Sens 1 (H317) STOT SE 3 (H335)	0.1-1%
Non-Hazardous Ingredients	Mixture	Mixture	Not Hazardous	Balance

The exact concentration is being withheld as a trade secret.

Refer to Section 16 for the full text of the GHS and EU Classifications.

SECTION 4: FIRST AID MEASURES

4.1 Description of First Aid Measures:

Eye: Flush eyes with large quantities of water for several minutes, while holding the eyelids apart. Get medical attention if irritation persists.

Skin: Flush thoroughly with water for several minutes. Get medical attention if irritation or rash occurs. Remove and launder clothing before re-use.

Inhalation: If inhaled, remove victim to fresh air. Get medical attention if you feel unwell.

Ingestion: If small quantities are swallowed, give one glass of water to drink. Do not induce vomiting unless directed to do so by medical personnel. If large amounts are swallowed or discomfort occurs, get medical attention.

4.2 Most Important symptoms and effects, both acute and delayed: Direct contact may cause moderate eye irritation. Direct contact may cause slight skin irritation. Inhalation may cause respiratory tract irritation. Solution may cause allergic skin reaction with itching and hives.

4.3 Indication of any immediate medical attention and special treatment needed: Immediate medical attention is not required.

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Extinguishing Media: Use any media that is suitable for the surrounding fire.

5.2 Special Hazards Arising from the Substance or Mixture: This product is not flammable or combustible but will burn under fire conditions. Thermal decomposition may release oxides of carbon.

5.3 Advice for Fire-Fighters: Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water spray. Contain water used in fire incidences involving the undiluted product.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, Protective Equipment and Emergency Procedures: Isolate the area and remove unprotected people. Wear suitable protective clothing to prevent skin and eye contact. Ventilate the area.

6.2 Environmental Precautions:

Report releases as required by local, state and federal authorities.

6.3 Methods and Material for Containment and Cleaning Up: Wipe or shovel up. Place material into an appropriate container for disposal. Clean the area with large quantities of water. Comply with Federal, State or local regulations on reporting spills.

6.4 Reference to Other Sections:

Refer to Section 8 for Personal Protective Equipment and Section 13 for Disposal information.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for Safe Handling: Avoid contact with eyes, skin and clothing. Wear protective clothing and equipment. Do not breathe mist or vapors. Use only with adequate ventilation. Wash thoroughly with water after handling. Keep containers closed when not in use. Wash clothing before re-use.

Do not reuse containers. Empty containers retain product residues which can be hazardous. Follow all SDS precautions when handling empty containers.

7.2 Conditions for Safe Storage, Including any Incompatibilities: Keep in a closed container in a cool, dry, ventilated area when not in use. Keep away from oxidizers and other incompatible materials.

7.3 Specific end use(s): Use as a dental unit waterline shock treatment. Use in conjunction with regular dental unit water testing.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control Parameters:

Chemical Name	Exposure Limits
Hydrogen Peroxide	1 ppm TWA ACGIH TLV 1 ppm TWA OSHA PEL 1 ppm TWA Canada- Ontario OEL 1 ppm TWA Canada- Québec OEL 0.5 ppm TWA, 0.5 ppm STEL DFG MAK 1 ppm TWA, 2 ppm STEL UK WEL
Sodium Dodecyl Sulfate	None Established
Maleic Acid	None Established
Non-Hazardous Ingredients	None Established

8.2 Exposure Controls:

Appropriate Engineering Controls: Use with adequate general or local exhaust ventilation to maintain exposure levels below the occupational exposure limits.

Personal Protective Equipment:

Respiratory Protection: In operations where exposure levels are excessive, an approved respirator with dust/mist cartridges or supplied air respirator should be used. Respirator selection and use should be based on contaminant type, form and concentration. Follow applicable regulations and good Industrial Hygiene practice.

Skin Protection: Follow facility requirements for operation. Chemical resistant gloves are recommended to prevent prolonged skin contact. Contact your glove supplier for assistance in selecting an appropriate glove.

Eye/Face Protection: Chemical safety glasses or dust goggles are recommended to avoid eye contact.

Other: Impervious coveralls, apron and boots are required to prevent prolonged skin contact and contamination of personal clothing.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Appearance: Solution 1: Clear liquid Solution 2: Blue Liquid	Vapor Pressure: Not applicable
Odor: No odor	Vapor Density: Not applicable
Odor Threshold: Not available	Relative Density: Solution 2: >1
pH: Solution 1: 2.1-2.5 Solution 2: 9.5-10.5	Solubility (ies): Fully miscible
Melting/Freezing Point: Not available	Partition Coefficient Octanol/Water: Not applicable
Initial Boiling Point/Range: Not applicable	Auto-ignition Temperature: Not applicable
Flashpoint: None	Decomposition Temperature: Not available
Evaporation Rate: Not applicable	Viscosity: Not determined
Flammability (solid, gas): Not applicable	Explosive Properties: Not explosive
Flammable Limits: LEL: Not applicable UEL: Not applicable	Oxidizing Properties: Not an oxidizer.

9.2 Other Information: None available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity: Not normally reactive

10.2 Chemical Stability: Stable under normal storage and handling conditions.

10.3 Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

10.4 Conditions to Avoid: Avoid elevated temperatures.

10.5 Incompatible Materials: Strong oxidizers, strong acids.

10.6 Hazardous Decomposition Products: When heated to decomposition emits oxides of carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects:

Eye: Direct contact may cause mild irritation.

Skin: Direct skin contact may cause slight skin irritation.

Inhalation: Inhalation may cause irritation of the nose, throat and respiratory tract.

Ingestion: Ingestion may cause gastrointestinal irritation, nausea and vomiting.

Chronic Hazards: None known.

Acute Toxicity Values:

Solution 1:

Calculated ATE_{mix}: Oral LD50 >5,000 mg/kg

Hydrogen Peroxide: Oral rat LD50 805 mg/kg; Inhalation rat LC50 0.17 mg/L/4 hr (no deaths at highest concentration available)

Solution 2:

Calculated ATE_{mix}: Oral >5,000 mg/kg; Dermal >5,000 mg/kg; Inhalation >5.29 mg/L

Sodium Dodecyl Sulfate: Oral rat LD50 1200 mg/kg; Dermal rabbit LD50 >2000 mg/kg

Maleic Acid: Oral rat LD50 708 mg/kg; Dermal rabbit LD50 1560 mg/kg

Irritation: Solution 1 has been tested and shows mild irritation in eyes, fully reversed in 72 hours and slight irritation for skin not driving classification. Solution 2 has been tested and shows moderate irritation in eyes, fully reversible in 7 days and moderate irritation to skin.

Corrosivity: Product is not expected to be corrosive.

Sensitization: Solution 1 is not expected to be a contact sensitizer. Solution 2 has been tested and is not a contact sensitizer.

Carcinogenicity: None of the components is listed as a carcinogen or suspected carcinogen by IARC, NTP, OSHA, or the EU CLP.

Germ Cell Mutagenicity: Not expected to cause germ cell mutagenicity.

Reproductive Toxicity: Not expected to cause reproductive harm.

Specific Target Organ Toxicity:

Single Exposure: None known.

Repeated Exposure: None known.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity:

No data available for the mixture. This product is not expected to be hazardous to the environment.

12.2 Persistence and Degradability: No data available.

12.3 Bioaccumulative Potential: No data available.

12.4 Mobility in Soil: No data available

12.5 Results of PBT and vPvB Assessment: No data available

12.6 Other Adverse Effects: Not applicable

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste Treatment Methods:

Dispose in accordance with local and national environmental regulations.

SECTION 14: TRANSPORTATION INFORMATION

	14.1 UN Number	14.2 UN Proper Shipping Name	14.3 Hazard Class(s)	14.4 Packing Group	14.5 Environmental Hazards
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US DOT	None	Not regulated	None	None	Not applicable
Canadian TDG	None	Not Regulated	None	None	Not applicable
EU ADR/RID	None	Not regulated	None	None	Not applicable
IMDG	None	Not regulated	None	None	Not applicable
IATA/ICAO	None	Not regulated	None	None	Not applicable

14.6 Special Precautions for User: Not applicable

14.7 Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

15.1 Safety, Health and Environment Regulations/Legislation Specific for the Substance or Mixture:

U.S. FEDERAL REGULATIONS:

CERCLA 103 Reportable Quantity: This product is not subject to reporting under CERCLA. Some states have more stringent reporting requirements. Report all spills in accordance with local, state, and federal regulations.

SARA TITLE III:

Hazard Category for Section 311/312: Refer to Section 2 for OSHA Hazard Classification.

Section 313 Toxic Chemicals: This product contains the following chemicals subject to SARA Title III Section 313 Reporting requirements: None

Section 302 Extremely Hazardous Substances (TPQ): None

EPA Toxic Substances Control Act (TSCA) Status: All of the components of this product are listed on TSCA inventory.

INTERNATIONAL REGULATIONS:

CANADIAN REGULATIONS

Canadian Environmental Protection Act: This product contains one or several components listed on either the Domestic Substances List (DSL) or Non- Domestic Substances list (NDSL).

This SDS has been prepared according to the criteria of the Controlled Products Regulation (CPR) and the SDS contains all of the information required by the CPR.

EUROPEAN REGULATIONS

REACH: A-dec, Inc. products comply with REACH regulation as applicable. For more information, contact Nisus Corporation.

SVHC: This product contains the following Substances of Very High Concern (SVHCs): None

15.2 Chemical Safety Assessment: None required.

SECTION 16: OTHER INFORMATION

NFPA Rating: Health = 1 Flammability = 0 Instability = 0
HMIS Rating: Health = 1 Flammability = 0 Physical Hazard = 0

Revision Summary: 2021/06/10: New SDS

GHS Classification for Reference (See Sections 2 and 3):

Ox Liq 1 Oxidizing Liquid Category 1
Acute Tox 4 Acute Toxicity Category 4
Skin Corr 1A Skin Corrosion Category 1A
Skin Irrit 2 Skin Irritation Category 2
Skin Sens 1 Skin Sensitizer Category 1
Eye Dam 1 Eye Damage Category 1
Eye Irrit 2 Eye Irritation Category 2
STOT SE 3 Specific Toxic Organ Toxicity – Single Exposure Category 3
Aquatic Chronic 3 Aquatic Chronic Toxicity Category 3

H271 May cause fire or explosion; strong oxidizer.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H317 May cause allergic skin reaction.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H332 Harmful if inhaled.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

NOTICE

The above information is believed to be correct but does not propose to be all inclusive and shall be used only as a guide. A-dec, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. This information relates only to the product designated herein and does not relate to its use in combination with any other material or process.