SAFETY DATA SHEETS

This SDS packet was issued with item:

071362573

N/A

ICX Renew®
by A-dec, Inc.
SAFETY DATA SHEET

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

1.1 Product Identifier:

Trade name: ICX Renew®
SDS Date of Preparation: 06/01/2022

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

Product Use: Use as a dental unit waterline shock treatment. Use only according to label directions.
It is a violation of Federal law to use this product in a manner inconsistent 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
Tel: +1.503.538.7478 outside
USA/CAN Fax: 503-537-2702
Website: www.a-dec.com

Distributors:

A-dec Australia
Unit 8
5-9 Ricketty Street
Mascot, NSW 2020
Australia
Tel: 1.800.225.010 within AU
Tel: +61.(0).2.8332.4000 outside AU

A-dec China
A-dec (Hangzhou) Dental Equipment Co., Ltd.
528 Shunfeng Road
Qianjiang Economic Development Zone
Hangzhou 311106
Zheijiang, China
Tel: 400.600.5434 within China
Tel: +86.571.89026088 outside China

A-dec United Kingdom
Austin House, 11 Liberty Way
Nuneaton, Warwickshire CV11 6RZ
England
Tel: 0800.ADEC.UK (2332.85) within UK
Tel: +44.(0).24.7635.0901 outside UK

1.4 Emergency Telephone Number:

Contact the A-dec Distributor, listed in section 1.3, closest to your location.
For SDS information guidance, contact INFOTRAC:
1.800.535.5053 – within USA/CAN
1.352.323.3500 – outside USA/CAN

Australia Poison Information Centre: 131 126

SECTION 2: HAZARDS IDENTIFICATION

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 Lauryl Sulfate, Maleic Acid

Statements of Hazard

H320 Causes eye irritation.

Precautionary Phrases

P264 Wash hands thoroughly after handling.
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

3.1 Mixture:

Solution 1

Chemical Name	CAS# / EINECS#/ Reach Registration #	GHS Classification	%	ATE/ Specific Concentration limits/ M-Factor
Non-Hazardous Ingredients	Mixture	Not Classified	Balance	None
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	1.5-2.5%	ATE Oral: 693.7-1193 mg/kg SCL: ≥70% Oxid. Liq. 1 SCL: 50-<70% Oxid. Liq. 2 SCL: ≥70% Skin Corr. 1A SCL: 50-<70% Skin Corr. 1B SCL: 35-<50% Skin Irrit. 2 SCL: 8-<50% Eye Dam. 1 SCL: 5-<8% Eye Irrit. 2 SCL: ≥35% STOT SE 3

Solution 2

Chemical Name	CAS# / EINECS#/ Reach Registration #	GHS Classification	%	ATE/ Specific Concentration limits/ M-Factor
Non-Hazardous Ingredients	Mixture	Not Classified	Balance	None
Sodium Lauryl Sulfate	151-21-3/ 205-788-1	Acute Tox 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 3, H412	1.5-2.5%	ATE Oral: 1200 mg/kg SCL: ≥20% Eye Dam. 1 SCL: 10-<20% Eye Irrit. 2
Maleic Acid	110-16-7/ 203-742-5	Acute Tox 4, H302, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens 1, H317 STOT SE 3, H335	0.1-0.3%	SCL: ≥0.1% Skin Sens. 1

The exact concentration is being withheld as a trade secret.

Refer to Section 16 for the full text of the GHS 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 of mists or vapors may cause respiratory tract irritation.

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, ammonia, nitrogen oxides, and biuret.

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: Cover with an inert absorbent material and collect 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
Non-Hazardous Ingredients	None Established
Hydrogen Peroxide	1 ppm TWA ACGIH TLV 1 ppm TWA OSHA PEL 0.5 ppm TWA, 0.5 ppm STEL DFG MAK 1 ppm TWA, 2 ppm STEL UK WEL 1 ppm TWA AU OEL
Sodium Lauryl Sulfate	None Established
Maleic Acid	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:

Physical State: Liquid	**Vapor Density:** Not determined
Appearance: Solution 1: Clear liquid Solution 2: Blue Liquid	**Relative Vapor Density (at 20°C):** Not determined
Color: Clear or Blue	**Specific Gravity:** Not determined
Odor: Odorless	**Density/Relative Density:** Solution 1: 1.005 Solution 2: 1.067
Odor Threshold: Not determined	**Solubility(ies):** Fully miscible in water
Melting Point/Freezing Point: Not determined	**Octanol/Water Partition Coefficient:** Not determined
Boiling Point/Range: Not determined	**Auto-ignition Temperature:** Not determined
pH: Solution 1: 1.9 - 2.4 Solution 2: 9.0 - 10.5	**Decomposition Temperature:** Not determined
Flash Point: Not determined	**Kinematic Viscosity:** Solution 1: 1.092 at 20°C Solution 2: 1.461 at 20°C
Evaporation Rate: Not determined	**Particle Characteristics:** Not applicable
Explosive Limits: LEL: Not determined **UEL:** Not determined	**Flammability (gas, liquid, solid):** Not flammable or combustible
Vapor Pressure: Not determined	**Particle Characteristics:** Not applicable
Saturated Vapor Concentration: Not determined	**Particle Size:** Not applicable
Release of Invisible Flammable Vapors and Gases: Not applicable	

9.2 Other Information:

9.2.1 Information with regard to physical hazard classes: Not applicable

9.2.2 Other Safety Characteristics: Not applicable

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, ammonia, nitrogen oxides, and biuret.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects:

Potential Health Effects:

Eye: Direct contact may cause mild eye irritation.
Skin: Direct skin contact may cause slight skin irritation.
Inhalation: Inhalation of mists or vapors 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 693.7 mg/kg (70% solution), Oral rat LD50 1193 mg/kg (35% solution), 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 Lauryl 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

Skin Corrosion/Irritation: Solution 1 has been tested and shows slight irritation for skin. Solution 2 has been tested and shows moderate irritation to skin. Based on the available data, the classification criteria are not met.

Serious Eye Damage/Irritation: Solution 1 has been tested and shows mild irritation in eyes, fully reversed in 72 hours. Solution 2 has been tested and shows moderate irritation in eyes, fully reversible in 7 days.

Respiratory or Skin Sensitization: Solution 1 is not expected to be a contact sensitizer. Solution 2 has been tested and is not a contact sensitizer. Based on the results of a dermal sensitization study the classification criteria are not met.

Germ Cell Mutagenicity: Based on the available data, the classification criteria are not met.

Carcinogenicity: None of the components of this product are listed as carcinogens by OSHA, IARC, NTP, or the EU CLP.

Reproductive Toxicity: Based on the available data, the classification criteria are not met.

Specific Target Organ Toxicity:
Single Exposure: Based on the available data, the classification criteria are not met.

Repeat Exposure: Based on the available data, the classification criteria are not met.

Aspiration Hazard: Based on the available data, the classification criteria are not met.

11.2 Information on other hazards: Not applicable

11.2.1 Endocrine disrupting properties: Not applicable

11.2.2 Other information: Not applicable

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 Endocrine disrupting properties: None known.

12.7 Other adverse effects: None known.

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
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
AU ADG	None	Not Regulated	None	None	Not applicable

14.6 Special Precautions for User: Not applicable

14.7 Maritime transport in bulk according to IMO instruments: Not applicable

SECTION 15: REGULATORY INFORMATION

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

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.

STATE REGULATIONS:

California Proposition 65: This product does not contain substances known in the State of California to cause cancer and/or reproductive harm.

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 A-dec, Inc.

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

AUSTRALIAN REGULATIONS:
Montreal Protocol (Ozone Depleting Substances): None present

The Stockholm Convention (Persistent Organic Pollutants): None present
The Rotterdam Convention (Prior Informed Consent): Not applicable
Basel Convention: Not applicable
International Convention for the Prevention of Pollution from Ships (MARPOL): Not applicable
Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP): Not applicable

Australian Inventory of Chemical Substances: Contact A-Dec,Inc. for Inventory regulatory status.

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:
1/23/2019: New SDS
5/9/2019: Components adjusted for Solution 2.
6/1/2022: Revised SDS format.

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

Ox Liq 1 Oxidizing Liquid Category 1	H271 May cause fire or explosion; strong oxidizer.
Acute Tox 4 Acute Toxicity Category 4	H302 Harmful if swallowed.
Skin Corr 1A Skin Corrosion Category 1A	H314 Causes severe skin burns and eye damage.
Skin Irrit 2 Skin Irritation Category 2	H315 Causes skin irritation.
Skin Sens 1 Skin Sensitizer Category 1	H317 May cause allergic skin reaction.
Eye Dam 1 Eye Damage Category 1	H318 Causes serious eye damage.
Eye Irrit 2 Eye Irritation Category 2	H319 Causes serious eye irritation.
Eye Irrit 2 Eye Irritation Category 2B	H320 Causes eye irritation
STOT SE 3 Specific Toxic Organ Toxicity – Single Exposure Category 3	H332 Harmful if inhaled. H335 May cause respiratory irritation.
Aquatic Chronic 3 Aquatic Chronic Toxicity Category 3	H412 Harmful to aquatic life with long lasting effects.

List of Abbreviations or Acronyms:
ACGIH American Conference of Industrial Hygienists
ADG Australian Dangerous Goods
AICS Australian Inventory of Chemical Substances
AU Australia
EU European Union
GHS Globally Harmonized System of Classification and Labelling of Chemicals
IARC International Agency of Research on Cancer
IATA International Air Transport Association
IMDG International Maritime Dangerous Goods
LC Lethal Concentration
LD Lethal Dosage
LEL Lower Explosive Limit
NTP National Toxicology Program
OEL Occupational Exposure Limits
OSHA Occupational Safety and Health Administration
PEL Permissible Exposure Limit

SDS Safety Data Sheet
STEL Short Term Exposure Limit
TWA Time-Weighted Average
UEL Upper Explosive Limit
WHS Work Health and Safety

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.

This SDS conforms to the requirements of US HazCom 2012, Canadian WHMIS 2015, EU Regulation No. 2020/878, and Australian WHS 2021. Please contact A-dec, Inc. for more information.