

MATERIAL SAFETY DATA SHEET

Section 1: IDENTIFICATION

Acecide®-C Use-Solution

Recommended Use: For high-level disinfection and/or sterilization of medical instruments

BEST SANITIZERS, INC.

P.O. Box 1360
Penn Valley, CA 95946
(888) 225-3267

BEST SANITIZERS, INC.

310 Providence Mine Rd. Suite 120
Nevada City, CA 95959
(888) 225-3267

CHEMTREC Toll-free 24 hour Emergency Telephone Number: (800) 424-9300

LEGEND HMIS/NFPA		Health	/	1
Severe	4	Flammability		0
Serious	3			
Moderate	2			
Slight	1			
Minimal	0	Physical Hazard		0
		Personal Protection		X

Section 2: HAZARDS

Emergency Overview	DANGER HARMFUL IF SWALLOWED Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles, face shield or safety glasses) and rubber gloves when handling. Wash hands thoroughly with soap and water after handling. Do not use with devices containing silver, copper, or brass. Keep out of reach of children.
Potential short-term health effects	
Routes of exposure	Eye, Skin contact, Inhalation, Ingestion
Eyes	May cause irritation
Skin	May cause irritation
Inhalation	Excessive inhalation may cause respiratory tract irritation and central nervous system effects (headache, dizziness).
Ingestion	Ingestion is unlikely through the normal anticipated use of this product. May cause stomach distress, nausea or vomiting.
Target organs	Eyes. Respiratory system. Skin.
Chronic effects	Prolonged or repeated exposure can cause drying, defatting and dermatitis.
Signs and symptoms	Symptoms may include redness, edema, drying, defatting and cracking of the skin.

Section 3: COMPOSITION INFORMATION

Ingredient	CAS No	EC No	Proportion
Ingredients deemed not to be hazardous	Not applicable	Not applicable	To 100%
Water	7732-18-5	231-791-2	< 95 %
Acetic Acid	64-19-7	200-580-7	< 2%
Peracetic Acid	79-21-0	201-186-8	< 0.5%
Potassium nitrate	7757-79-1	231-818-8	< 0.5%
Tetrasodium etidronate	3794-83-0	223-267-7	< 0.5%
Trisodium phosphate	7601-54-9	231-509-8	< 0.5%

Note: Once the Acecide-C Solutions are mixed, the resulting solution will be contained in the unit and not easily accessed.

Section 4: FIRST AID

Eye (Contact)	Hold eyelids apart and flush the eye continuously with running water for 5-15 minutes.
Skin (Contact)	Remove contaminated clothing and flush skin and hair thoroughly with running water.
Inhalation (Breathing)	If inhaled, remove from contaminated area. Apply artificial respiration if not breathing.
Ingestion (Swallowing)	DO NOT induce vomiting. For advice, contact a doctor.
Advice to Doctor	Treat symptomatically for neutral detergent.
First Aid Facilities	Ensure an eye wash and safety shower are available and ready for use.
Additional Information	No aggravated medical conditions are known to be caused by exposure to the product.

Section 5: FIREFIGHTING MEASURE

Suitable Extinguishing Media	Solution does not burn. Use dry chemical powder, foam, water spray or fog type extinguishers.
Hazards From Combustion Products	Toxic and/or irritating fumes including carbon monoxide and carbon dioxide may be emitted.
Precautions For Fire Fighters and Special Protective Equipment	Keep containers or equipment holding Acecide-C cool by spraying with water.

Section 6: ACCIDENTAL RELEASE MEASURES

Spills / Clean up	<p>For small volumes (approximately less than 1L) - Personal protective equipment should be worn when cleaning up spills. Restrict access to area until completion of cleanup. Stop leak if safe to do so. Collect and dispose of spilled material according to local regulations. Wash away remnants with copious amounts of cold water.</p> <p>In the unlikely event of breach of multiple containers, contain spill with absorbent material, such as sand, vermiculite or other inert material. Prevent spill from entering sewers or waterways. Collect and dispose of spilled material according to local regulations. Wash away remnants with copious amounts of cold water. Clean area by working from the periphery to the centre of spill or from the edge of the room to the centre.</p>
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Section 7: HANDLING AND STORAGE

Precautions for Safe Handling	<p>Product is intended for the high-level disinfection and sterilization of medical instruments. Any non-intended or non-authorized use of this product may result in personal injury or damage to equipment.</p> <p>Do not manually open container.</p> <p>When used in an automatic endoscope reprocessor, do not open machine while in use.</p> <p>Wash hands and face thoroughly after handling and before work breaks, eating, drinking, smoking and using toilet facilities.</p> <p>Do not use with chlorine-based products. The product is acidic in nature and reaction with chlorine-based products may produce poisonous chlorine gas.</p>
Conditions for Safe Storage	<p>Store in a cool, dry, well ventilated area away from direct sunlight and incompatible materials. Keep container tightly sealed. Store between 0°C and 25°C. Note that storage at higher temperatures may reduce product use life. Store unused Acecide-C in the upright position following instructions on the package.</p>

Section 8: EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure Standards

<u>Ingredient</u>	<u>CAS No</u>	<u>ES-TWA</u>	<u>ES-STEL</u>
Hydrogen Peroxide	7722-84-1	1ppm 1.4mg/m ³	Not available
Acetic Acid	64-19-7	10ppm 25mg/m ³	15ppm 37mg/m ³

Biological Limit Values Not available.

Engineering Controls Ensure adequate ventilation to keep airborne concentrations below exposure standards.

Personal Protective Equipment Eye/face protection – Wear safety glasses to prevent eye contact.
 Skin protection – Use nitrile rubber gloves to prevent skin contact.
 Respiratory protection – Respirator is not usually necessary, but if product is irritating, use a respirator suitable for organic vapours.



Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance Clear colourless liquid	Boiling Point Not available
Odour Characteristic	Freezing Point Not available
pH 3.0 - 4.0	Solubility Soluble in water.
Specific Gravity 1.0	Flash Point Not Applicable.
Vapour Pressure Not Available.	Upper and Lower Flammability limits (in air) Not Applicable.
Vapour Density Not Available.	Ignition Temperature Not Applicable.

Section 10: STABILITY AND REACTIVITY

Chemical Stability	Stable under normal ambient storage conditions.
Conditions to avoid	Avoid high temperatures (store between 0°C and 25°C). Protect against physical damage. Do not mix with other chemicals unless instructed to for disposal purposes.
Incompatible materials	Reducing agents and metals (iron, copper, silver, brass, etc.).
Hazardous decomposition products	None known.
Hazardous reactions	Do not use with chlorine-based products. The product is acidic in nature and reaction with chlorine-based products may produce poisonous chlorine gas.

Section 11: TOXICOLOGICAL INFORMATION

HEALTH EFFECTS

Acute

Swallowed	Considered an unlikely route of entry in commercial / industrial environments. May be irritating to gastro-intestinal tract.
Eye	May cause irritation and reddening.
Skin	May cause irritation.
Inhaled	Inhalation of mist may cause irritation.

Chronic

Swallowed No effects known.
Eye No effects known.
Skin No effects known.
Inhalation No effects known.

TOXICITY DATA

Peracetic acid	LD ₅₀ 210mg/kg (oral, mouse)	RTECS SD8750000
Hydrogen peroxide	LD ₅₀ 1518mg/kg (oral, rat)	RTECS MX0890000
Acetic acid	LD ₅₀ 3310mg/kg (oral, rat)	RTECS AF1225000
Potassium nitrate	LD ₅₀ 3015mg/kg (oral, rabbit)	
Tetrasodium etidronate	LD ₅₀ >2000mg/kg (rat)	
Trisodium phosphate	LD ₅₀ 1700mg/kg (oral, rat)	
	LD ₅₀ 2380mg/kg (oral, mouse)	
	LD ₅₀ 2500mg/kg (oral, rabbit)	

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity Not available.
Persistence and degradability Not available.
Mobility Not available.

Section 13: DISPOSAL CONSIDERATIONS

Disposal method Before disposal, check to see if the wastewater conforms to the local, federal, state and national standards (for pH, BOD, COD and other measures). Check with your local Publicly Owned Treatment Works (POTW) to determine if peracetic acid solutions like Acecide-C Use-Solution can be disposed of in the sanitary sewer system. Some POTWs may prohibit the disposal of peracetic acid solutions in the sanitary sewer or may require dilution with copious amounts of water and/or neutralization prior to disposal. In most cases, Acecide-C Use-Solution can be disposed of direct to drain but there may be exceptions.

Section 14: TRANSPORT INFORMATION

Acecide-C Use-Solution will not be transported.
 Not classified as Dangerous Goods by the criteria of the European Transportation Law, including the following regulations: ADR, RID, ADNR, IMDG and ICAO/IATA.

UN Number Not applicable.
UN Proper Shipping Name Not applicable.
Class and subsidiary risk Not applicable.
Packing Group Not applicable.
Special precautions for user Not applicable.
Hazchem Code Not applicable.

Section 15: REGULATORY INFORMATION

Not classified as hazardous by the criteria of EG directive 67/548/EEC.

Section 16: OTHER INFORMATION

Acecide-C Use-Solution is the combined result of mixing Acecide-C Solution 1, with Acecide-C Solution 2 and water. Once the Acecide-C Solutions are mixed and diluted, the resulting Use-Solution should be handled in accordance with this Material Safety Data Sheet.

For further safety information please contact Best Sanitizers Inc. 888-225-3267