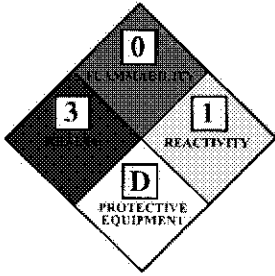



Material Safety Data Sheet

Used to comply with
 OSHA's Hazard Communication Standard
 29 CFR 1910.1200 and Appendices

This Form Prepared by:
 ADVENT AGE TECHNICAL SERVICE
 Phone 800-764-1669

IDENTITY (as used on product label)

INVACARE HEAVY DUTY CLEANER		Health	3
	24 HOUR Medical Emergency 800-228-5635 	Flammability	0
		Reactivity	1
		Protective Equipment	D
Product Description One-Step Acid Cleaner Sanitizer	Formula Proprietary Blend	Chemical Family N.A.	EPA REGISTERED
D.O.T. Proper Shipping Name: Corrosive Liquid, Acidic, Inorganic, N.O.S. (Contains Phosphoric Acid)	Shipping ID Number UN3264	Packing Group III	Hazard Class 8 Corrosive Material

Section I - Manufacturers or Suppliers Data

Silcraft / Invacare Corporation	Primary Phone: 800-347-5440
528 Hughes Drive	Secondary Phone: 800-348-4848
Traverse City, MI 49686	Date prepared August 24, 1998

Section II - Hazard Ingredients / Identity Information

Orthophosphoric Acid: Phosphoric Acid CAS Registry Number 7664-38-2	1mg/m ³ TWA	8.5% wt/wt
Oxalic Acid CAS Registry Number 144-62-7	1mg/m ³ TWA	1.0 -5.0% wt/wt
Alkyl (C14-50%, C12-40%, C16-10%) Dimethyl Benzyl Ammonium Chloride CAS Registry Number 68424-85-1	No Limits Established	1.0% wt/wt
Octyl Decyl Dimethyl Ammonium Chloride CAS Registry 32426-11-2	No Limits Established	0.75% wt/wt
Didecyl Dimethyl Ammonium Chloride CAS Registry Number 7173-51-5	No Limits Established	0.45% wt/wt

Dioctyl Dimethyl Ammonium Chloride CAS Registry Number 5538-94-3	0.3% wt/wt No Limits Established
This product contains no other ingredient considered hazardous according to the criteria of 29 CFR 1910.1200, OSHA.	
This product does not contain any know carcinogens NTP annual report, 29 CFR 1910. App.Z	

Section III - Physical / Chemical Characteristics

Boiling Point - 212 degrees F.	Specific Gravity 1.055 @ 25 degrees C	Vapor Pressure - N.A.
Melting Point - N.A.	Solubility in Water - Complete	Vapor Density - N.A.
Appearance and Odor - Blue, non viscous solution, soap scent pH < 2.0 concentrate		

Section IV - Fire and Explosion Hazard Data

No Fire or Explosion Hazard under normal conditions - Not Flammable

Section V - Reactivity Data

Stability	Conditions to Avoid	Materials to Avoid
Stable	Do not store at high temperature, store below 100 ° F may cause product leakage	Avoid mixing with any other cleaning product Avoid sodium hypochlorite, and other strong alkali such as caustic soda or caustic potash, contact with metals such as aluminum, tin, zinc and their alloys will produce flammable hydrogen gas. Mixing with cyanides, sulfides and sulfites may release poisonous gas.
Mixing with incompatible materials may produce hydrogen gas, chlorine gas, sulfur dioxide, hydrogen sulfide, nitrous oxide, ammonia vapor and other poisonous gases.		
Hazardous polymerization will not occur		

Section VI - Health Hazard Data

<p>Effects of Exposure</p>	<p>Inhalation of mists may cause irritation to nose throat and mucous membranes. Pulmonary irritation, Pulmonary edema, tissue damage, and chemical burns. Severity depends on degree of exposure. Corrosive Ingestion: Harmful or fatal if swallowed. May cause nausea, vomiting, and gastrointestinal irritation, swelling of the larynx, respiratory distress, skeletal muscle paralysis, circulatory shock and convulsions. Corrosive Skin Contact may cause severe irritation, dermatitis, and chemical burns. Corrosive Eye Contact is corrosive, causes eye burns, may cause temporary or permanent vision loss and blindness. Acute & Chronic: Corrosive to all body tissues, harmful skin contact may not cause immediate pain.</p>
<p>Routes of Entry</p>	<p>Ingestion, Skin Absorption, Broken Skin, Eyes, Inhalation</p>
<p>Target Organs</p>	<p>Eyes, Skin, Respiratory, Circulatory, and G.I. Systems</p>

Section VII - Precautions for Safe Handling and Use

Protective Gear		Normal Use	Spill Handling
Respiratory Protection		Avoid Vapor wear Full Face Shield	Full Face Shield and respirator mask, self contained breathing apparatus
Ventilation - Local Exhaust Ventilation - General Mechanical		Not Required	extra ventilation helpful
Protective Gloves		Required	Required
Eye Protection		Full Face Shield	Goggles may be needed when concentrated liquid may splash in eyes
Other Protective Clothing or Equipment		Water resistant apron or better	Complete water resistant suit recommended
Precautions	Working Practices and Hygienic Practices	Use as directed on product label and instruct personnel in using protective gear. Handle carefully to avoid spills	If concentrated liquid is spilled on clothing, change clothing and wash off skin and rinse with clear water for 15 minutes as soon as possible. Spills should be soaked up from floor using sand or other inert non-combustible absorbent material.

Emergency	Response Data
Fire (Product is Non Flammable)	For fires in area use appropriate media, such as water spray, dry chemical, carbon dioxide, or foam. Heat and fire in the area will increase air born vapor, use respiratory protection
	Special Procedures: Evacuate area of unprotected personnel . Wear protective clothing including a NIOSH approved, self contained breathing apparatus.
	Unusual Hazards: The temperature conditions of a fire may promote the reaction of the product with some metals such as aluminum, zinc, and tin releasing flammable hydrogen gas.
First Aid Measures Give First Aid as listed and then call 800-228-5635 or Contact a Physician for further medical instructions	Inhalation: Move victim to a fresh air location, give artificial respiration if patient is not breathing. Ingestion: Do not induce vomiting. If patient is conscious and can swallow, administer milk or water. Skin: Remove contaminated clothes and flood with clear water for 15 minutes. Eyes: Flood eyes for 15 minutes with lukewarm water (not hot) having the patient blink as much as possible.

Section VIII - Control Measures

Waste disposal method	Follow federal, state and local regulations
Precautions in handling and storage	Prevent from freezing - expands upon freezing which could cause the container to leak
Other precautions	Use only as directed on the product label. Use all protective gear as indicated. Do not mix with other chemical products. (Mixing chemical products with other chemical products may liberate poisonous or explosive gases and in some cases enough heat could be generated to cause ignition.)

The Data in this Material Safety Data Sheet relates only to the specific material designated and does not relate to its use in combination with any other material or process. The Data contained is believed to be accurate, however; since use conditions vary and are therefore outside of our control, we make no warranties, expressed or implied and assume no liability for failure to follow product use directions and safety precautions.