

Crystal Clear 550

Material Safety Data Sheet

Product Name: Crystal Clear 550

Product Code: 6014

HMIS Code: H – 2 F – 0 R – 1 P – G

(Health – Fire – Reactivity – Personal Protection)

HMIS Rating: 0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe

I. Manufacturer Identification

Manufacture's Name: Winsol Laboratories, Inc.

Address: 1417 NW 51 St. Seattle, WA, 98107

Emergency Phone: 206-782-5500

Date Prepared: 01-01-98

Name of Prepare: Winsol Laboratories, Inc.

Revised: 01-01-98

II. Hazardous Ingredients / Identity Information

Hazardous Components	Cas#	OSHA PEL	ACGIH TLV	Weight %
Hydrochloric Acid	7647-01-0	5PPM	NA	<3
Hydrofluoric Acid	7664-39-3	3PPM	3PPM	<3

Note: Based on the results of product testing, cc-550 would not fall within the toxic or corrosive hazard classifications of DOT. This product is not considered toxic or corrosive under the DOT standards for shipping.

III. Physical / Chemical Characteristics

Boiling Point: 212F @ 760.00 MMoHG

Vapor Density: 10-30 MM HG & 70 F

V.O.C.: N/A

Solubility in Water: 100%

Appearance and Odor: Clear and Slightly Acidic

Specific Gravity (H2O=1): 1.1

Evaporation Rate: Slower than Ether

(Ether=1)

IV. Fire and Explosion Hazard Data

Winsol Crystal Clear 550 is Non-Flammable

Flash point: N.A.

Flammable limits in air by volume: Lower: N/A Upper: N/A

Extinguishing Media: Water Fog

Special Fire Fighting Procedures: Water may be used to keep the fire exposed containers cool until the fire is out. Self contained breathing apparatus with a full-piece

operated in pressure-demand or other positive pressure mode and full body protective clothing.

Unusual Fire and Explosion Hazards: Concentrated acids react with most metals to release hydrogen gas which, under some conditions, can form explosive mixtures with air.

V. Reactivity Data

Stability: Stable

Conditions to Avoid: Not suitable on glass with class two corrosion, or hot surfaces

Incompatibility (Materials to avoid): Avoid contact with strong alkalis. Alkali metals and organic materials.

Hazardous decomposition or byproducts: May form toxic materials. Hydrogen chloride, acid fumes, etc.

Hazardous Polymerization: Hazardous polymerization will not occur

VI. Health Hazard Data

EMERGENCY AND FIRST AID PROCEDURES:

Eyes: Immediately flush with large amounts of water for at least 15 minutes. Lifting upper and lower lids occasionally get immediate medical attention. If physician is not immediately available. Continue flushing with water. Do not use chemical antidote.

Skin: Immediately flush with large quantities of cool water while removing contaminated clothing and shoes until all acid is removed. Paying particular attention to skin under nails. Get medical attention follow by immersing affected part in ice-cold saturated solution of magnesium sulfate (Epsom salt) wash clothing before reuse. Discard contaminated shoes.

Ingestion: Do not induce vomiting will cause further damage to the throat dilute by giving large amounts of water. Immediately follow with mineral oil or milk of magnesia. Keep person warm, quiet and get medical attention.

Inhalation: If affected remove individual to fresh air if breathing is difficult, give oxygen if breathing has stopped, give artificial respiration and get medical attention.

Inhalation health risks and symptoms of exposure: Mist may cause damage to nasal and respiratory passages.

Skin and eye contact health risks and symptoms of exposure:

Eye: May cause severe damage and even blindness very rapidly.

Skin: Both the liquid and vapor may cause severe burns which may not be immediately painful or visible.

Skin absorption health risks and symptoms of exposure: Both the liquid and vapor can cause burns which may not be immediately painful or visible.

Ingestion health risks and symptoms of exposure: Results in severe damage to mucous membranes and deep tissues can result in death on penetration to vital areas.

Health hazards (Acute and chronic): N.A.

Carcinogenicity: Non-carcinogenic

NTP? NO

IARC Monographs? No

OSHA Regulated? No

Medical conditions generally aggravated by exposure: burns and cuts

VII. Precautions for Safe Handling and Use

Steps to be taken in case material is released or spilled: Get protective equipment. Contain spill and pump into marked containers for reclamation or disposal for small spills, neutralize with sodium bicarbonate. Soda ash or dilute caustic soda solution and flush to sewer system in accordance with regulatory permit requirements. If possible, clean up spill area on a dry basis and then flush with plenty of water.

Waste disposal method: Dispose of spilled or waste product and other contaminated materials in licensed landfill or treatment facility in accordance with all local, state and federal regulations.

Precautions to be taken in handling and storing: Store in cool area away from heat and oxidizing agents.

Other Precautions: Containers of this material may be hazardous when emptied, since emptied containers retain product residues (vapor, liquid and/or solids), all hazard precautions given in the data sheet must be observed.

VIII. Control Measures

Respiratory Protection: If TVL of the product or any component is exceeded, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified condition.

Ventilation: Provide general or mechanical ventilation or local exhaust to keep vapor concentrations below TLV of materials in section II. And LEL in section VI.

Protective Gloves: Use impermeable gloves to prevent prolonged skin contact, such as rubber or neoprene.

Eye Protection: Use safety eyewear designed to protect eyes against liquid splash and mists.

Other protective clothing or equipment: Use protective clothing to prevent skin contact. Use head caps, boots, and chemical aprons when necessary.

Work/Hygienic Practices: eye washes and safety showers in the work place are recommended. Wash hands after using. Monitor exposure levels.

XI. Other Regulatory Information

Emergence response number for shipping only: Not required

D.O.T. Proper shipping name: Cleaner, no special hazard

DOT regulatory guideline test results:

DOT skin corrosion: No sign of dermal corrosion was noted at any of the test sites based on these results, the test material (Crystal Clear 550) is considered NON-CORROSIVE to the skin when applied as received.

DOT acute dermal toxicity: The single dose acute dermal LD-50 of Crystal Clear 550 is greater than 1000 MG/KG of body weight a liquid with a acute dermal LD-50 greater than 1000 MG/KG is not classified as a "poisonous material" Under DOT 173.132 Class 6 division 5.1 based on the results of this study, Crystal Clear 550 would not fall within the poisonous category under DOT regulatory guidelines.

DOT acute oral toxicity: The single dose acute orals LD-50 of Crystal Clear 550 is greater than 500 MG/KG of bodyweight when administered as received. A liquid with an acute oral LD-50 greater than 500 MG/KG is not classified as a “poisonous material” under dot 1 132 Class 5 Division 6, division 6.1 based on the results of the study. Crystal Clear 550 would not fall under DOT regulation guidelines within the poisonous category.

DOT acute inhalation toxicity: the acute inhalation LC-50 of Crystal Clear 550 is greater than 11.89 MGL/L (normal) when aerosolized as received. A material with an acute inhalation LC-50 greater than 10 MG/L is not classified as poisonous material – under DOT 173.132 Class 6. Division 6.1 Based on the results of this study. Crystal Clear 550 would not fall within the poisonous category under DOT regulatory guidelines.

SARA Title III / Section 313 Supplier notification: This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the emergency planning and community right to know act of 1986 and of 40 CFR 372.

CAS: #	Chemical Name	Percent by Weight
7647-01-0	Hydrochloric Acid	<3
7664-39-3	Hydrofluoric Acid	<3

IX. Disclaimer

Notice: Although the information and recommendations set forth herein (hereinafter “Information”) are presented in good faith and believed to be correct as of the date hereof, Winsol Laboratories, Inc. makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to the suitability for their purposes prior to use. In no event will Winsol Laboratories, inc. be responsible for damaged of any nature whatsoever resulting from the use of or reliance upon information. No representations or warranties, either express or implied, of merchantability, fitness for a particular purpose or of any other nature are made hereunder with respect to information or the product to which information refers.

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