

CRYSTAL CLEAR 550

Material Safety Data Sheet

6014

MATERIAL SAFETY DATA SHEET
OSHA FORM 174

PRODUCT NAME: CRYSTAL CLEAR 550

PRODUCT CODE: 6014

HMIS CODES: 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

SECTION I - MANUFACTURER IDENTIFICATION

MANUFACTURER'S NAME: WINSOL LABORATORIES, INC.

ADDRESS: 1417 NW 51ST, SEATTLE, WA., 98107

EMERGENCY PHONE: 206/782-5500

DATE PREPARED: 01-01-98 NAME OF PREPARER: WINSOL LABORATORIES, INC.

REVISED: 01-01-09

SECTION 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.

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: 2120 F @760.00 MM HG SPECIFIC GRAVITY (H2O=1): 1.1

VAPOR DENSITY: 10-30 MM HG @70 F EVAPORATION RATE: SLOWER THAN ETHER

V.O.C.: N.A.

SOLUBILITY IN WATER: 100%

APPEARANCE AND ODOR: CLEAR AND SLIGHTLY ACIDIC

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

WINSOL CRYSTAL CLEAR 550 IS NON-FLAMMABLE.

FLASH POINT: N.A.

FLAMMABLE LIMITS IN AIR BY VOLUME- UPPER: N.A. LOWER: 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 FACE-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.

SECTION 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 ALKALIES, 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.

SECTION VI - HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:

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.

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.

SECTION VI - HEALTH HAZARD DATA CONT.

INGESTION - DO NOT INDUCE VOMITING. VOMITING WILL CAUSE FURTHER DAMAGE TO THE THROAT. DILUTE BY GIVING LARGE QUANTITIES 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

SECTION 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 A 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 SOLID, ALL HAZARD PRECAUTIONS GIVEN IN THIS DATA SHEET MUST BE OBSERVED.

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION: IF TLV OF THE PRODUCT OR ANY COMPONENT IS EXCEEDED, A NIOSH/MSHA RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS UNDER SPECIFIED CONDITIONS.

VENTILATION: PROVIDE GENERAL OR MECHANICAL VENTILATION OR LOCAL EXHAUST TO KEEP VAPOR CONCENTRATIONS BELOW TLV OF MATERIALS IN SECTION II AND LEL IN SECTION IV.

PROTECTIVE GLOVES: USE IMPERMEABLE GLOVES TO PREVENT PROLONGED SKIN CONTACT, SUCH AS RUBBER OR NEOPRENE.

EYE PROTECTION: USE SAFETY EYE WEAR DESIGNED TO PROTECT EYES AGAINST LIQUID SPLASH AND MISTS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: USE PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT. USE HEAD CAPS, RUBBER BOOTS AND OVERALLS WHEN NECESSARY.

WORK/HYGIENIC PRACTICES: EYE WASHES AND SAFETY SHOWERS IN THE WORK PLACE ARE RECOMMENDED. WASH HANDS AFTER USING. MONITOR EXPOSURE LEVELS.

SECTION IX - OTHER REGULATORY INFORMATION

EMERGENCY 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 BODYWEIGHT. 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 6.1. BASED ON THE RESULTS OF THIS STUDY, CRYSTAL CLEAR 550, WOULD NOT FALL WITHIN THE POISONOUS CATEGORY UNDER DOT REGULATORY GUIDELINES.

SECTION IX - OTHER REGULATORY INFORMATION CONTINUED

DOT REGULATORY GUIDELINE TEST RESULTS CONTINUED:

DOT ACUTE ORAL TOXICITY: THE SINGLE DOSE ACUTE ORAL 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 173.132 CLASS 6, DIVISION 6.1. BASED ON THE RESULTS OF THIS STUDY, CRYSTAL CLEAR 550 WOULD NOT FALL UNDER DOT REGULATORY GUIDELINES WITHIN THE POISONOUS CATEGORY.

DOT ACUTE INHALATION TOXICITY: THE ACUTE INHALATION LC-50 OF CRYSTAL CLEAR 550 IS GREATER THAN 11.89 MG/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 |

SECTION X - 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 damages 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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REVISIONS

01-01-09 - UPDATE