

**Common Name:** GREEN ENVY MURIATIC ACID REPLACEMENT

**Manufacturer:** SUNNYSIDE

**SDS Revision Date:** 5/7/2015

**SDS Format:** GHS-US

**Grainger Item Number(s):** 5KPY1

**Manufacturer Model Number(s):**

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SAFETY DATA SHEET

PRODUCT NUMBER: 610

ISSUING DATE: 07-MAY-2015

REVISION DATE: 07-MAY-2015

REVISION NUMBER: 4

UL

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION

AND OF THE COMPANY/UNDERTAKING

PRODUCT IDENTIFIER:

PRODUCT NAME: GREEN ENVY MURIATIC ACID REPLACEMENT

OTHER MEANS OF IDENTIFICATION:

SYNONYMS: NONE

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

RECOMMENDED USE: ETCHANT AND ACIDS

USES ADVISED AGAINST: NO INFORMATION AVAILABLE

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

SUPPLIER NAME: SUNNYSIDE CORPORATION

SUPPLIER ADDRESS:  
225 CARPENTER AVENUE  
WHEELING IL 60090  
US

SUPPLIER PHONE NUMBER:  
PHONE: 8475415700  
FAX: 8475419043

SUPPLIER EMAIL: SSCONTACT@SUNNYSIDECORP.COM

EMERGENCY TELEPHONE NUMBER:  
CHEM TREC: 800-424-9300

## 2. HAZARDS IDENTIFICATION



CLASSIFICATION:

THIS CHEMICAL IS CONSIDERED HAZARDOUS BY THE 2012 OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200)

ACUTE TOXICITY - ORAL: CATEGORY 4  
ACUTE TOXICITY - INHALATION (VAPORS): CATEGORY 3  
ACUTE TOXICITY - INHALATION (DUSTS/MISTS): CATEGORY 3  
SKIN CORROSION/IRRITATION: CATEGORY 1  
SERIOUS EYE DAMAGE/EYE IRRITATION: CATEGORY 1  
SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE): CATEGORY 3  
CORROSIVE TO METALS: CATEGORY 1

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS:

EMERGENCY OVERVIEW:

SIGNAL WORD: DANGER

HAZARD STATEMENTS:

HARMFUL IF SWALLOWED  
TOXIC IF INHALED  
CAUSES SEVERE SKIN BURNS AND EYE DAMAGE  
MAY CAUSE RESPIRATORY IRRITATION. MAY CAUSE DROWSINESS OR DIZZINESS  
MAY BE CORROSIVE TO METALS

SKULLS AND CROSSBONES  
EXCLAMATION MARK  
CORROSION

APPEARANCE: TRANSPARENT

PHYSICAL STATE: LIQUID

ODOR: MILD

PRECAUTIONARY STATEMENTS - PREVENTION:

WASH FACE, HANDS AND ANY EXPOSED SKIN THOROUGHLY AFTER HANDLING  
DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT  
USE ONLY OUTDOORS OR IN A WELL-VENTILATED AREA  
DO NOT BREATHE DUST/FUME/GAS/MIST/VAPORS/SPRAY  
WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION  
KEEP ONLY IN ORIGINAL CONTAINER

PRECAUTIONARY STATEMENTS - RESPONSE:

SPECIFIC TREATMENT (SEE .? ON THIS LABEL)  
IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN  
SPECIFIC TREATMENT (SEE SUPPLEMENTAL FIRST AID INSTRUCTIONS ON THIS LABEL)

EYES:

IF IN EYES:  
RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF  
PRESENT AND EASY TO DO. CONTINUE RINSING IMMEDIATELY CALL A POISON CENTER  
OR DOCTOR/PHYSICIAN

SKIN:

IF ON SKIN (OR HAIR):  
REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH  
WATER/SHOWER

WASH CONTAMINATED CLOTHING BEFORE REUSE

INHALATION:

IF INHALED:  
REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR  
BREATHING

IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN

CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL

INGESTION:

IF SWALLOWED:  
CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL  
RINSE MOUTH  
DO NOT INDUCE VOMITING

SPILL: ABSORB SPILLAGE TO PREVENT MATERIAL DAMAGE

PRECAUTIONARY STATEMENTS - STORAGE:

STORE IN A WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED  
STORE LOCKED UP  
STORE IN CORROSIVE RESISTANT/ .? CONTAINER WITH A RESISTANT INNER LINER

PRECAUTIONARY STATEMENTS - DISPOSAL:

DISPOSE OF CONTENTS/CONTAINER TO AN APPROVED WASTE DISPOSAL PLANT

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC): NOT APPLICABLE

UNKNOWN TOXICITY:

0% OF THE MIXTURE CONSISTS OF INGREDIENT(S) OF UNKNOWN TOXICITY

OTHER INFORMATION: NO INFORMATION AVAILABLE

INTERACTIONS WITH OTHER CHEMICALS: NO INFORMATION AVAILABLE.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS



CHEMICAL NAME	CAS NO	WEIGHT-%	TRADE SECRET
HYDROGEN CHLORIDE	7647-01-0	19	*

\*THE EXACT PERCENTAGE (CONCENTRATION) OF COMPOSITION HAS BEEN WITHHELD AS A TRADE SECRET

### 4. FIRST AID MEASURES



FIRST AID MEASURES:

GENERAL ADVICE:

IMMEDIATE MEDICAL ATTENTION IS REQUIRED. SHOW THIS SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE.

EYE CONTACT:

RINSE IMMEDIATELY WITH PLENTY OF WATER, ALSO UNDER THE EYELIDS, FOR AT LEAST 15 MINUTES. KEEP EYE WIDE OPEN WHILE RINSING. DO NOT RUB AFFECTED AREA. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. SEEK IMMEDIATE MEDICAL ATTENTION/ADVICE.

SKIN CONTACT:

WASH OFF IMMEDIATELY WITH SOAP AND PLENTY OF WATER WHILE REMOVING ALL CONTAMINATED CLOTHES AND SHOES. IMMEDIATE MEDICAL ATTENTION IS REQUIRED.

INHALATION:

REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED, GIVE ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION IMMEDIATELY. DO NOT USE MOUTH-TO-MOUTH METHOD IF VICTIM INGESTED OR INHALED THE SUBSTANCE; GIVE ARTIFICIAL RESPIRATION WITH THE AID OF A POCKET MASK EQUIPPED WITH A ONE-WAY VALVE OR OTHER PROPER RESPIRATORY MEDICAL DEVICE. IF BREATHING IS DIFFICULT, (TRAINED PERSONNEL SHOULD) GIVE OXYGEN. DELAYED PULMONARY EDEMA MAY OCCUR. AVOID DIRECT CONTACT WITH SKIN. USE BARRIER TO GIVE MOUTH-TO-MOUTH RESUSCITATION. GET MEDICAL ATTENTION IMMEDIATELY IF SYMPTOMS OCCUR.

INGESTION:

DO NOT INDUCE VOMITING. RINSE MOUTH IMMEDIATELY AND DRINK PLENTY OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY.

SELF-PROTECTION OF THE FIRST AIDER:

ENSURE THAT MEDICAL PERSONNEL ARE AWARE OF THE MATERIAL(S) INVOLVED, TAKE PRECAUTIONS TO PROTECT THEMSELVES AND PREVENT SPREAD OF CONTAMINATION. AVOID CONTACT WITH SKIN, EYES OR CLOTHING. AVOID DIRECT CONTACT WITH SKIN. USE BARRIER TO GIVE MOUTH-TO-MOUTH RESUSCITATION. USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. WEAR PERSONAL PROTECTIVE CLOTHING (SEE SECTION 8).

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

MOST IMPORTANT SYMPTOMS AND EFFECTS:

BURNING. BURNING SENSATION. COUGHING AND/OR WHEEZING. DIFFICULTY IN BREATHING.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

NOTES TO PHYSICIAN:

PRODUCT IS A CORROSIVE MATERIAL. USE OF GASTRIC LAVAGE OR EMESIS IS CONTRAINDICATED. POSSIBLE PERFORATION OF STOMACH OR ESOPHAGUS SHOULD BE INVESTIGATED. DO NOT GIVE CHEMICAL ANTIDOTES. ASPHYXIA FROM GLOTTAL EDEMA MAY OCCUR. MARKED DECREASE IN BLOOD PRESSURE MAY OCCUR WITH MOIST RALES, FROTHY SPUTUM, AND HIGH PULSE PRESSURE.

## 5. FIRE-FIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA:

USE EXTINGUISHING MEASURES THAT ARE APPROPRIATE TO LOCAL CIRCUMSTANCES AND THE SURROUNDING ENVIRONMENT.

UNSUITABLE EXTINGUISHING MEDIA:

CAUTION: USE OF WATER SPRAY WHEN FIGHTING FIRE MAY BE INEFFICIENT.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

THE PRODUCT CAUSES BURNS OF EYES, SKIN AND MUCOUS MEMBRANES. THERMAL DECOMPOSITION CAN LEAD TO RELEASE OF IRRITATING GASES AND VAPORS.

UNIFORM FIRE CODE:

CORROSIVE: OTHER-LIQUID

TOXIC: LIQUID

HAZARDOUS COMBUSTION PRODUCTS: CARBON OXIDES.

EXPLOSION DATA:

SENSITIVITY TO MECHANICAL IMPACT: NO.

SENSITIVITY TO STATIC DISCHARGE: NO.

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTERS:

AS IN ANY FIRE, WEAR SELF-CONTAINED BREATHING APPARATUS PRESSURE-DEMAND, MSHA/NIOSH (APPROVED OR EQUIVALENT) AND FULL PROTECTIVE GEAR.

## 6. ACCIDENTAL RELEASE MEASURES



PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:

PERSONAL PRECAUTIONS:

ATTENTION!

CORROSIVE MATERIAL. AVOID CONTACT WITH SKIN, EYES OR CLOTHING. ENSURE ADEQUATE VENTILATION. USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED. EVACUATE PERSONNEL TO SAFE AREAS. KEEP PEOPLE AWAY FROM AND UPWIND OF SPILL/LEAK. DO NOT BREATHE VAPOR OR MIST.

OTHER INFORMATION: REFER TO PROTECTIVE MEASURES LISTED IN SECTIONS 7 AND 8.

ENVIRONMENTAL PRECAUTIONS:

ENVIRONMENTAL PRECAUTIONS:

REFER TO PROTECTIVE MEASURES LISTED IN SECTIONS 7 AND 8. PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. SHOULD NOT BE RELEASED INTO THE

ENVIRONMENT. DO NOT ALLOW TO ENTER INTO SOIL/SUBSOIL. PREVENT PRODUCT FROM ENTERING DRAINS.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

METHODS FOR CONTAINMENT:

PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO.

METHODS FOR CLEANING UP:

SOAK UP WITH INERT ABSORBENT MATERIAL. PICK UP AND TRANSFER TO PROPERLY LABELED CONTAINERS.

## 7. HANDLING AND STORAGE



PRECAUTIONS FOR SAFE HANDLING:

HANDLING:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. AVOID CONTACT WITH SKIN, EYES OR CLOTHING. IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT. USE ONLY WITH ADEQUATE VENTILATION AND IN CLOSED SYSTEMS. DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE. DO NOT BREATHE VAPOR OR MIST.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

STORAGE:

KEEP CONTAINERS TIGHTLY CLOSED IN A DRY, COOL AND WELL-VENTILATED PLACE. PROTECT FROM MOISTURE. STORE LOCKED UP. KEEP OUT OF THE REACH OF CHILDREN. STORE AWAY FROM OTHER MATERIALS.

INCOMPATIBLE PRODUCTS: ACIDS. BASES. OXIDIZING AGENT.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



CONTROL PARAMETERS:

EXPOSURE GUIDELINES:

CHEMICAL NAME	ACGIH TLV	OSHA PEL	NIOSH IDLH
HYDROGEN CHLORIDE 7647-01-0	CEILING: 2 PPM	CEILING: 5 PPM	IDLH: 50 PPM
		CEILING: 7 MG/M3	CEILING: 5 PPM
			CEILING: 7 MG/M3

ACGIH TLV:

AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS - THRESHOLD LIMIT VALUE

OSHA PEL:

OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION - PERMISSIBLE EXPOSURE LIMITS IMMEDIATELY DANGEROUS TO LIFE OR HEALTH

OTHER EXPOSURE GUIDELINES:

VACATED LIMITS REVOKED BY THE COURT OF APPEALS DECISION IN AFL-CIO V. OSHA, 965 F.2D 962 (11TH CIR., 1992) SEE SECTION 15 FOR NATIONAL EXPOSURE CONTROL PARAMETERS

APPROPRIATE ENGINEERING CONTROLS:

ENGINEERING MEASURES:

SHOWERS

EYEWASH STATIONS

VENTILATION SYSTEMS

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION: FACE PROTECTION SHIELD.

SKIN AND BODY PROTECTION:

WEAR PROTECTIVE GLOVES AND PROTECTIVE CLOTHING. LONG SLEEVED CLOTHING.

CHEMICAL RESISTANT APRON. IMPERVIOUS GLOVES.

RESPIRATORY PROTECTION:

NO PROTECTIVE EQUIPMENT IS NEEDED UNDER NORMAL USE CONDITIONS. IF EXPOSURE LIMITS ARE EXCEEDED OR IRRITATION IS EXPERIENCED, VENTILATION AND EVACUATION MAY BE REQUIRED.

HYGIENE MEASURES:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. AVOID CONTACT WITH SKIN, EYES OR CLOTHING. WEAR SUITABLE GLOVES AND EYE/FACE PROTECTION. DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE. CONTAMINATED WORK CLOTHING SHOULD NOT BE ALLOWED OUT OF THE WORKPLACE. REGULAR CLEANING OF EQUIPMENT, WORK AREA AND CLOTHING IS RECOMMENDED. WASH HANDS BEFORE BREAKS AND IMMEDIATELY AFTER HANDLING THE PRODUCT. FOR ENVIRONMENTAL PROTECTION, REMOVE AND WASH ALL CONTAMINATED PROTECTIVE EQUIPMENT BEFORE RE-USE. DO NOT BREATHE VAPOR OR MIST.

## 9. PHYSICAL AND CHEMICAL PROPERTIES



PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE: LIQUID

APPEARANCE: TRANSPARENT

COLOR: NO INFORMATION AVAILABLE

ODOR: MILD

ODOR THRESHOLD: NO INFORMATION AVAILABLE

PROPERTY	VALUES	REMARKS	METHOD
PH	2	NONE	KNOWN
MELTING / FREEZING POINT	NO DATA AVAILABLE	NONE	KNOWN
BOILING POINT / BOILING RANGE	100 DEG. C / 212 DEG. F	NONE	KNOWN
FLASH POINT	NONE	NONE	KNOWN
EVAPORATION RATE	NO DATA AVAILABLE	NONE	KNOWN
FLAMMABILITY (SOLID, GAS)	NO DATA AVAILABLE	NONE	KNOWN
FLAMMABILITY LIMIT IN AIR:			
UPPER FLAMMABILITY LIMIT	NO DATA AVAILABLE		
LOWER FLAMMABILITY LIMIT	NO DATA AVAILABLE		

VAPOR PRESSURE	NO DATA AVAILABLE	NONE KNOWN
VAPOR DENSITY	NO DATA AVAILABLE	NONE KNOWN
SPECIFIC GRAVITY	NO DATA AVAILABLE	NONE KNOWN
WATER SOLUBILITY	COMPLETELY SOLUBLE	NONE KNOWN
SOLUBILITY IN OTHER SOLVENTS	NO DATA AVAILABLE	NONE KNOWN
PARTITION COEFFICIENT N-OCTANOL/WATER	NO DATA AVAILABLE	NONE KNOWN
AUTOIGNITION TEMPERATURE	NO DATA AVAILABLE	NONE KNOWN
DECOMPOSITION TEMPERATURE	NO DATA AVAILABLE	NONE KNOWN
KINEMATIC VISCOSITY	NO DATA AVAILABLE	NONE KNOWN
DYNAMIC VISCOSITY	NO DATA AVAILABLE	NONE KNOWN
EXPLOSIVE PROPERTIES	NO DATA AVAILABLE	
OXIDIZING PROPERTIES	NO DATA AVAILABLE	
OTHER INFORMATION:		
SOFTENING POINT	NO DATA AVAILABLE	
VOC CONTENT (%)	NO DATA AVAILABLE	
PARTICLE SIZE	NO DATA AVAILABLE	
PARTICLE SIZE DISTRIBUTION		

## 10. STABILITY AND REACTIVITY



REACTIVITY: NO DATA AVAILABLE.

CHEMICAL STABILITY: STABLE UNDER RECOMMENDED STORAGE CONDITIONS.

POSSIBILITY OF HAZARDOUS REACTIONS: NONE UNDER NORMAL PROCESSING.

HAZARDOUS POLYMERIZATION: HAZARDOUS POLYMERIZATION DOES NOT OCCUR.

CONDITIONS TO AVOID:

EXPOSURE TO AIR OR MOISTURE OVER PROLONGED PERIODS. EXCESSIVE HEAT.

INCOMPATIBLE MATERIALS: ACIDS. BASES. OXIDIZING AGENT.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON OXIDES.

## 11. TOXICOLOGICAL INFORMATION



INFORMATION ON LIKELY ROUTES OF EXPOSURE:

PRODUCT INFORMATION:

INHALATION:

SPECIFIC TEST DATA FOR THE SUBSTANCE OR MIXTURE IS NOT AVAILABLE. CORROSIVE BY INHALATION. (BASED ON COMPONENTS). INHALATION OF CORROSIVE FUMES/GASES MAY CAUSE COUGHING, CHOKING, HEADACHE, DIZZINESS, AND WEAKNESS FOR SEVERAL HOURS. PULMONARY EDEMA MAY OCCUR WITH TIGHTNESS IN THE CHEST, SHORTNESS OF BREATH, BLUISH SKIN, DECREASED BLOOD PRESSURE, AND INCREASED HEART RATE. INHALED CORROSIVE SUBSTANCES CAN LEAD TO A TOXIC EDEMA OF THE LUNGS. PULMONARY EDEMA CAN BE FATAL. MAY CAUSE IRRITATION OF RESPIRATORY TRACT. TOXIC BY INHALATION.

EYE CONTACT:

SPECIFIC TEST DATA FOR THE SUBSTANCE OR MIXTURE IS NOT AVAILABLE. CAUSES BURNS. (BASED ON COMPONENTS). CORROSIVE TO THE EYES AND MAY CAUSE SEVERE DAMAGE INCLUDING BLINDNESS. CAUSES SERIOUS EYE DAMAGE. MAY CAUSE IRREVERSIBLE DAMAGE TO EYES.

SKIN CONTACT:

SPECIFIC TEST DATA FOR THE SUBSTANCE OR MIXTURE IS NOT AVAILABLE. CORROSIVE. (BASED ON COMPONENTS). CAUSES BURNS.

INGESTION:

SPECIFIC TEST DATA FOR THE SUBSTANCE OR MIXTURE IS NOT AVAILABLE. CAUSES BURNS. (BASED ON COMPONENTS). INGESTION CAUSES BURNS OF THE UPPER DIGESTIVE AND RESPIRATORY TRACTS. MAY CAUSE SEVERE BURNING PAIN IN THE MOUTH AND STOMACH WITH VOMITING AND DIARRHEA OF DARK BLOOD. BLOOD PRESSURE MAY DECREASE. BROWNISH OR YELLOWISH STAINS MAY BE SEEN AROUND THE MOUTH. SWELLING OF THE THROAT MAY CAUSE SHORTNESS OF BREATH AND CHOKING. MAY CAUSE LUNG DAMAGE IF SWALLOWED. MAY BE FATAL IF SWALLOWED AND ENTERS AIRWAYS. INGESTION MAY CAUSE IRRITATION TO MUCOUS MEMBRANES. INGESTION MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA. MAY BE HARMFUL IF SWALLOWED.

COMPONENT INFORMATION:

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
HYDROGEN CHLORIDE 7647-01-0	=700 MG/KG (RAT)	>5010 MG/KG (RABBIT)	=3124 PPM (RAT) 1 H

INFORMATION ON TOXICOLOGICAL EFFECTS:

SYMPTOMS:

ERYTHEMA (SKIN REDNESS). BURNING. MAY CAUSE BLINDNESS. COUGHING AND/OR WHEEZING. DIFFICULTY IN BREATHING.

DELAYED AND IMMEDIATE EFFECTS AS WELL AS CHRONIC EFFECTS FROM SHORT AND LONG-TERM EXPOSURE:

SENSITIZATION: NO INFORMATION AVAILABLE.

MUTAGENIC EFFECTS: NO INFORMATION AVAILABLE.

CARCINOGENICITY:

THE TABLE BELOW INDICATES WHETHER EACH AGENCY HAS LISTED ANY INGREDIENT AS A CARCINOGEN.

CHEMICAL NAME	ACGIH	IARC	NTP	OSHA
HYDROGEN CHLORIDE 7647-01-0		GROUP 3		

IARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER):  
GROUP 3 - NOT CLASSIFIABLE AS TO CARCINOGENICITY IN HUMANS

REPRODUCTIVE TOXICITY: NO INFORMATION AVAILABLE.

STOT - SINGLE EXPOSURE: NO INFORMATION AVAILABLE.

STOT - REPEATED EXPOSURE: NO INFORMATION AVAILABLE.

**CHRONIC TOXICITY:**

CHRONIC EXPOSURE TO CORROSIVE FUMES/GASES MAY CAUSE EROSION OF THE TEETH FOLLOWED BY JAW NECROSIS. BRONCHIAL IRRITATION WITH CHRONIC COUGH AND FREQUENT ATTACKS OF PNEUMONIA ARE COMMON. GASTROINTESTINAL DISTURBANCES MAY ALSO BE SEEN. EFFECTS FROM THIS PRODUCT CAUSED BY ACUTE EXPOSURE MAY CAUSE PERMANENT DAMAGE TO TARGET ORGANS AND/OR MAY CAUSE CHRONIC CONDITIONS.

**TARGET ORGAN EFFECTS:**

RESPIRATORY SYSTEM. EYES. SKIN. GASTROINTESTINAL TRACT (GI). SYSTEMIC TOXICITY. TEETH.

ASPIRATION HAZARD: NO INFORMATION AVAILABLE.

**NUMERICAL MEASURES OF TOXICITY PRODUCT INFORMATION:**

THE FOLLOWING VALUES ARE CALCULATED BASED ON CHAPTER 3.1 OF THE GHS DOCUMENT:

ATEMIX (ORAL): 1,152.00 MG/KG

ATEMIX (INHALATION-GAS): 2,603.00 PPM (4 HR)

ATEMIX (INHALATION-DUST/MIST): 0.84 MG/L

ATEMIX (INHALATION-VAPOR): 5.00 ATEMIX

## 12. ECOLOGICAL INFORMATION



ECOTOXICITY: HARMFUL TO AQUATIC LIFE.

CHEMICAL NAME	TOXICITY TO ALGAE	TOXICITY TO FISH	TOXICITY TO MICROORGANISMS	DAPHNIA MAGNA (WATER FLEA)
HYDROGEN CHLORIDE 7647-01-0		96H LC50: =282 MG/L (GAMBUSIA AFFINIS)		

PERSISTENCE AND DEGRADABILITY: NO INFORMATION AVAILABLE.

BIOACCUMULATION: NO INFORMATION AVAILABLE

OTHER ADVERSE EFFECTS: NO INFORMATION AVAILABLE.

## 13. DISPOSAL CONSIDERATIONS



WASTE TREATMENT METHODS:

**DISPOSAL METHODS:**

THIS MATERIAL, AS SUPPLIED, IS A HAZARDOUS WASTE ACCORDING TO FEDERAL REGULATIONS (40 CFR 261).

**CONTAMINATED PACKAGING:**

DISPOSE OF CONTENTS/CONTAINERS IN ACCORDANCE WITH LOCAL REGULATIONS.

US EPA WASTE NUMBER: D002 P102

## 14. TRANSPORT INFORMATION

DOT:  
PROPER SHIPPING NAME: CONSUMER COMMODITY  
HAZARD CLASS: ORM-D  
DESCRIPTION: CONSUMER COMMODITY, ORM-D

TDG:  
UN-NO.: UN3264

PROPER SHIPPING NAME: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

HAZARD CLASS: 8

PACKING GROUP: III

DESCRIPTION:  
UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROGEN CHLORIDE,  
PROPARGYL ALCOHOL), 8, III, MARINE POLLUTANT

MEX:  
UN-NO.: UN3264

PROPER SHIPPING NAME: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

HAZARD CLASS: 8

PACKING GROUP: III

DESCRIPTION:  
UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROGEN CHLORIDE,  
PROPARGYL ALCOHOL), 8, III

ICAO:  
UN-NO.: UN3264

PROPER SHIPPING NAME: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

HAZARD CLASS: 8

PACKING GROUP: III

DESCRIPTION:  
UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROGEN CHLORIDE,  
PROPARGYL ALCOHOL), 8, III

IATA:  
UN-NO.: UN3264

PROPER SHIPPING NAME: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

HAZARD CLASS: 8

PACKING GROUP: III

DESCRIPTION:  
UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROGEN CHLORIDE,  
PROPARGYL ALCOHOL), 8, III

IMDG/IMO:  
UN-NO.: UN3264

PROPER SHIPPING NAME: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

HAZARD CLASS: 8

PACKING GROUP: III

EMS-NO.: F-A, S-B

DESCRIPTION:  
UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROGEN CHLORIDE,  
PROPARGYL ALCOHOL), 8, III, MARINE POLLUTANT

RID:  
UN-NO.: UN3264

PROPER SHIPPING NAME: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

HAZARD CLASS: 8

PACKING GROUP: III

CLASSIFICATION CODE: C1

DESCRIPTION:  
UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROGEN CHLORIDE,  
PROPARGYL ALCOHOL), 8, III

ADR:  
UN-NO.: UN3264

PROPER SHIPPING NAME: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

HAZARD CLASS: 8

PACKING GROUP: III

CLASSIFICATION CODE: C1

TUNNEL RESTRICTION CODE: (E)

DESCRIPTION:  
UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROGEN CHLORIDE,  
PROPARGYL ALCOHOL), 8, III

ADN:  
UN-NO.: UN3264

PROPER SHIPPING NAME: CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.

HAZARD CLASS: 8

PACKING GROUP: III

CLASSIFICATION CODE: C1

SPECIAL PROVISIONS: 274

DESCRIPTION:  
UN3264, CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (HYDROGEN CHLORIDE,  
PROPARGYL ALCOHOL), 8, III

HAZARD LABELS: 8

LIMITED QUANTITY: 5 L

**15. REGULATORY INFORMATION**



INTERNATIONAL INVENTORIES:

TSCA: COMPLIES

DSL: ALL COMPONENTS ARE LISTED EITHER ON THE DSL OR NDSL.

TSCA - UNITED STATES TOXIC SUBSTANCES CONTROL ACT SECTION 8(B) INVENTORY  
DSL/NDSL - CANADIAN DOMESTIC SUBSTANCES LIST/NON-DOMESTIC SUBSTANCES LIST

US FEDERAL REGULATIONS:

SARA 313:

SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA). THIS PRODUCT CONTAINS A CHEMICAL OR CHEMICALS WHICH ARE SUBJECT TO THE REPORTING REQUIREMENTS OF THE ACT AND TITLE 40 OF THE CODE OF FEDERAL REGULATIONS, PART 372

CHEMICAL NAME	CAS NO	WEIGHT-%	SARA 313 - THRESHOLD VALUES %
HYDROGEN CHLORIDE -	7647-01-0	40 - 70	1.0

SARA 311/312 HAZARD CATEGORIES:

ACUTE HEALTH HAZARD: YES  
CHRONIC HEALTH HAZARD: NO  
FIRE HAZARD: NO  
SUDDEN RELEASE OF PRESSURE HAZARD: NO  
REACTIVE HAZARD: NO

CWA (CLEAN WATER ACT):

THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES WHICH ARE REGULATED POLLUTANTS PURSUANT TO THE CLEAN WATER ACT (40 CFR 122.21 AND 40 CFR 122.42)

CHEMICAL NAME	CWA - REPORTABLE QUANTITIES	CWA - TOXIC POLLUTANTS	CWA - PRIORITY POLLUTANTS	CWA - HAZARDOUS SUBSTANCES
HYDROGEN CHLORIDE 7647-01-0	5000 LB			X

CERCLA:

THIS MATERIAL, AS SUPPLIED, CONTAINS ONE OR MORE SUBSTANCES REGULATED AS A HAZARDOUS SUBSTANCE UNDER THE COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT (CERCLA) (40 CFR 302)

CHEMICAL NAME	HAZARDOUS SUBSTANCES RQS	EXTREMELY HAZARDOUS SUBSTANCES RQS	RQ
HYDROGEN CHLORIDE 7647-01-0	5000 LB	5000 LB	RQ: 5000 LB FINAL RQ RQ: 2270 KG FINAL RQ

US STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:  
THIS PRODUCT DOES NOT CONTAIN ANY PROPOSITION 65 CHEMICALS.

U.S. STATE RIGHT-TO-KNOW REGULATIONS:

CHEMICAL NAME	NEW JERSEY	MASSACHUSETTS	PENNSYLVANIA	RHODE ISLAND	ILLINOIS
HYDROGEN CHLORIDE 7647-01-0	X	X	X	X	X
SUPPLIER TRADE SECRET	X				

INTERNATIONAL REGULATIONS:

MEXICO:

NATIONAL OCCUPATIONAL EXPOSURE LIMITS:

COMPONENT	CARCINOGEN STATUS	EXPOSURE LIMITS
HYDROGEN CHLORIDE 7647-01-0 (40 - 70)		MEXICO: CEILING: 5 PPM
		MEXICO: CEILING: 7 MG/M3

MEXICO: OCCUPATIONAL EXPOSURE LIMITS - CARCINOGENS

CANADA:

WHMIS HAZARD CLASS:  
E - CORROSIVE MATERIAL

## 16. OTHER INFORMATION



NFPA:  
HEALTH HAZARDS 3  
FLAMMABILITY 0  
INSTABILITY 0  
PHYSICAL AND CHEMICAL HAZARDS

HMIS:  
HEALTH HAZARDS 3  
FLAMMABILITY 0  
PHYSICAL HAZARD 0  
PERSONAL PROTECTION X

PREPARED BY:  
PRODUCT STEWARDSHIP  
23 BRITISH AMERICAN BLVD.  
LATHAM, NY 12110  
1-800-572-6501

ISSUING DATE: 07-MAY-2015

REVISION DATE: 07-MAY-2015

REVISION NOTE: NO INFORMATION AVAILABLE

DISCLAIMER:

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