

SECTION 1: IDENTIFICATION

MANUFACTURED FOR:	YOUNG INNOVATIONS, INC. - DBA DEFEND
ADDRESS:	2260 WENDT STREET
CITY, STATE, ZIP:	ALGONQUIN, IL 60102 USA
TELEPHONE:	1-800-275-0020
PRODUCT ITEM NO.:	SO-9600-
PRODUCT NAME/IDENTIFIER:	TARTAR & STAIN REMOVER
COMMON NAME:	LIQUID
RECOMMENDED USE OF THE CHEMICAL & RESTRICTIONS ON USE:	N/A
24 HR EMERGENCY PHONE #	INFOTRAC 1-800-535-5053 / OUTSIDE U.S. 1-352-323-3500

SECTION 2: HAZARD(S) IDENTIFICATION

OSHA/HCS STATUS: THIS MATERIAL IS CONSIDERED HAZARDOUS BY THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200).

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE: SKIN CORROSION - CATEGORY 1
SERIOUS EYE DAMAGE - CATEGORY 1

GHS LABEL ELEMENTS
HAZARD PICTOGRAMS:


SIGNAL WORD: DANGER

HAZARD STATEMENTS: CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

PRECAUTIONARY STATEMENTS

PREVENTION: WEAR PROTECTIVE GLOVES, PROTECTIVE CLOTHING AND EYE OR FACE PROTECTION. WASH THOROUGHLY AFTER HANDLING.

RESPONSE: IF INHALED: REMOVE PERSON TO FRESH AIR AND KEEP COMFORTABLE FOR BREATHING.

IMMEDIATELY CALL A POISON CENTER OR DOCTOR. IF SWALLOWED: IMMEDIATELY CALL A POISON CENTER OR DOCTOR. RINSE MOUTH. DO NOT INDUCE VOMITING. IF ON SKIN (OR HAIR): TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER. IMMEDIATELY CALL A POISON CENTER OR DOCTOR. WASH CONTAMINATED CLOTHING BEFORE REUSE. 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.

STORAGE: STORE LOCKED UP.

DISPOSAL: DISPOSE OF CONTENTS AND CONTAINER IN ACCORDANCE WITH ALL LOCAL, REGIONAL, NATIONAL AND INTERNATIONAL REGULATIONS.

HAZARDS NOT OTHERWISE CLASSIFIED: NONE KNOWN.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

SUBSTANCE/MIXTURE: MIXTURE

OTHER MEANS OF IDENTIFICATION: NOT AVAILABLE.

INGREDIENT NAME	%	CAS NUMBER
SULPHAMIDIC ACID	≤5	5329-14-6

ANY CONCENTRATION SHOWN AS A RANGE IS TO PROTECT CONFIDENTIALITY OR IS DUE TO BATCH VARIATION.

THERE ARE NO ADDITIONAL INGREDIENTS PRESENT WHICH, WITHIN THE CURRENT KNOWLEDGE OF THE SUPPLIER AND IN THE CONCENTRATIONS APPLICABLE, ARE CLASSIFIED AND HENCE REQUIRE REPORTING IN THIS SECTION.

OCCUPATIONAL EXPOSURE LIMITS, IF AVAILABLE, ARE LISTED IN SECTION 8.

SECTION 4: FIRST AID MEASURES**DESCRIPTION OF NECESSARY FIRST AID MEASURES**

EYE CONTACT: GET MEDICAL ATTENTION IMMEDIATELY. CALL A POISON CENTER OR PHYSICIAN. IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER, OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. CHECK FOR AND REMOVE ANY CONTACT LENSES. CONTINUE TO RINSE FOR AT LEAST 10 MINUTES. CHEMICAL BURNS MUST BE TREATED PROMPTLY BY A PHYSICIAN.

INHALATION: GET MEDICAL ATTENTION IMMEDIATELY. CALL A POISON CENTER OR PHYSICIAN. REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. IF IT IS SUSPECTED THAT FUMES ARE STILL PRESENT, THE RESCUER SHOULD WEAR AN APPROPRIATE MASK OR SELF-CONTAINED BREATHING APPARATUS. IF NOT BREATHING, IF BREATHING IS IRREGULAR OR IF RESPIRATORY ARREST OCCURS, PROVIDE ARTIFICIAL RESPIRATION OR OXYGEN BY TRAINED PERSONNEL. IT MAY BE DANGEROUS TO THE PERSON PROVIDING AID TO GIVE MOUTH-TO-MOUTH RESUSCITATION. IF UNCONSCIOUS, PLACE IN RECOVERY POSITION AND GET MEDICAL ATTENTION IMMEDIATELY. MAINTAIN AN OPEN AIRWAY. LOOSEN TIGHT CLOTHING SUCH AS A COLLAR, TIE, BELT OR WAISTBAND. IN CASE OF INHALATION OF DECOMPOSITION PRODUCTS IN A FIRE, SYMPTOMS MAY BE DELAYED. THE EXPOSED PERSON MAY NEED TO BE KEPT UNDER MEDICAL SURVEILLANCE FOR 48 HOURS.

SKIN CONTACT: GET MEDICAL ATTENTION IMMEDIATELY. CALL A POISON CENTER OR PHYSICIAN. WASH CONTAMINATED SKIN WITH SOAP AND WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. WASH CONTAMINATED CLOTHING THOROUGHLY WITH WATER BEFORE REMOVING IT, OR WEAR GLOVES. CONTINUE TO RINSE FOR AT LEAST 10 MINUTES. CHEMICAL BURNS MUST BE TREATED PROMPTLY BY A PHYSICIAN. WASH CLOTHING BEFORE REUSE. CLEAN SHOES THOROUGHLY BEFORE REUSE.

INGESTION: GET MEDICAL ATTENTION IMMEDIATELY. CALL A POISON CENTER OR PHYSICIAN. WASH OUT MOUTH WITH WATER. REMOVE DENTURES IF ANY. IF MATERIAL HAS BEEN SWALLOWED AND THE EXPOSED PERSON IS CONSCIOUS, GIVE SMALL QUANTITIES OF WATER TO DRINK. STOP IF THE EXPOSED PERSON FEELS SICK AS VOMITING MAY BE DANGEROUS. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. IF VOMITING OCCURS, THE HEAD SHOULD BE KEPT LOW SO THAT VOMIT DOES NOT ENTER THE LUNGS. CHEMICAL BURNS MUST BE TREATED PROMPTLY BY A PHYSICIAN. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF UNCONSCIOUS, PLACE IN RECOVERY POSITION AND GET MEDICAL ATTENTION IMMEDIATELY. MAINTAIN AN OPEN AIRWAY. LOOSEN TIGHT CLOTHING SUCH AS A COLLAR, TIE, BELT OR WAISTBAND.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED**POTENTIAL ACUTE HEALTH EFFECTS**

EYE CONTACT: CAUSES SERIOUS EYE DAMAGE.

INHALATION: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

SKIN CONTACT: CAUSES SEVERE BURNS.

INGESTION: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

OVER-EXPOSURE SIGNS/SYMPTOMS

EYE CONTACT: ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING: PAIN, WATERING, REDNESS.

INHALATION: NO SPECIFIC DATA.

SKIN CONTACT: ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING: PAIN OR IRRITATION, REDNESS, BLISTERING MAY OCCUR

INGESTION: ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING: STOMACH PAINS

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

NOTES TO PHYSICIAN: IN CASE OF INHALATION OF DECOMPOSITION PRODUCTS IN A FIRE, SYMPTOMS MAY BE DELAYED. THE EXPOSED PERSON MAY NEED TO BE KEPT UNDER MEDICAL SURVEILLANCE FOR 48 HOURS.

SPECIFIC TREATMENTS: NO SPECIFIC TREATMENT.

PROTECTION OF FIRST-AIDERS: NO ACTION SHALL BE TAKEN INVOLVING ANY PERSONAL RISK OR WITHOUT SUITABLE TRAINING. IF IT IS SUSPECTED THAT FUMES ARE STILL PRESENT, THE RESCUER SHOULD WEAR AN APPROPRIATE MASK OR SELF-CONTAINED BREATHING APPARATUS. IT MAY BE DANGEROUS TO THE PERSON PROVIDING AID TO GIVE MOUTH-TO-MOUTH RESUSCITATION. WASH CONTAMINATED CLOTHING THOROUGHLY WITH WATER BEFORE REMOVING IT, OR WEAR GLOVES.

SEE TOXICOLOGICAL INFORMATION (SECTION 11)

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

SUITABLE EXTINGUISHING MEDIA: USE AN EXTINGUISHING AGENT SUITABLE FOR THE SURROUNDING FIRE.

UNSUITABLE EXTINGUISHING MEDIA: NONE KNOWN.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: IN A FIRE OR IF HEATED, A PRESSURE INCREASE WILL OCCUR AND THE CONTAINER MAY BURST.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS: DECOMPOSITION PRODUCTS MAY INCLUDE THE FOLLOWING MATERIALS:
NITROGEN OXIDES
SULFUR OXIDES

SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS: PROMPTLY ISOLATE THE SCENE BY REMOVING ALL PERSONS FROM THE VICINITY OF THE INCIDENT IF THERE IS A FIRE. NO ACTION SHALL BE TAKEN INVOLVING ANY PERSONAL RISK OR WITHOUT SUITABLE TRAINING.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS: FIRE-FIGHTERS SHOULD WEAR APPROPRIATE PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS (SCBA) WITH A FULL FACE-PIECE OPERATED IN POSITIVE PRESSURE MODE.

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

FOR NON-EMERGENCY PERSONNEL: NO ACTION SHALL BE TAKEN INVOLVING ANY PERSONAL RISK OR WITHOUT SUITABLE TRAINING. EVACUATE SURROUNDING AREAS. KEEP UNNECESSARY AND UNPROTECTED PERSONNEL FROM ENTERING. DO NOT TOUCH OR WALK THROUGH SPILLED MATERIAL. DO NOT BREATHE VAPOR OR MIST. PROVIDE ADEQUATE VENTILATION. WEAR APPROPRIATE RESPIRATOR WHEN VENTILATION IS INADEQUATE. PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT.

FOR EMERGENCY RESPONDERS: IF SPECIALIZED CLOTHING IS REQUIRED TO DEAL WITH THE SPILLAGE, TAKE NOTE OF ANY INFORMATION IN SECTION 8 ON SUITABLE AND UNSUITABLE MATERIALS. SEE ALSO THE INFORMATION IN "FOR NON- EMERGENCY PERSONNEL".

ENVIRONMENTAL PRECAUTIONS: AVOID DISPERSAL OF SPILLED MATERIAL AND RUNOFF AND CONTACT WITH SOIL, WATERWAYS, DRAINS AND SEWERS. INFORM THE RELEVANT AUTHORITIES IF THE PRODUCT HAS CAUSED ENVIRONMENTAL POLLUTION (SEWERS, WATERWAYS, SOIL OR AIR).

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

SMALL SPILL: STOP LEAK IF WITHOUT RISK. MOVE CONTAINERS FROM SPILL AREA. DILUTE WITH WATER AND MOP UP IF WATER-SOLUBLE. ALTERNATIVELY, OR IF WATER-INSOLUBLE, ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER. DISPOSE OF VIA A LICENSED WASTE DISPOSAL CONTRACTOR.

LARGE SPILL: STOP LEAK IF WITHOUT RISK. MOVE CONTAINERS FROM SPILL AREA. APPROACH RELEASE FROM UPWIND. PREVENT ENTRY INTO SEWERS, WATER COURSES, BASEMENTS OR CONFINED AREAS. WASH SPILLAGES INTO AN EFFLUENT TREATMENT PLANT OR PROCEED AS FOLLOWS. CONTAIN AND COLLECT SPILLAGE WITH NON-COMBUSTIBLE, ABSORBENT MATERIAL E.G. SAND, EARTH, VERMICULITE OR DIATOMACEOUS EARTH AND PLACE IN CONTAINER FOR DISPOSAL ACCORDING TO LOCAL REGULATIONS (SEE SECTION 13). THE SPILLED MATERIAL MAY BE NEUTRALIZED WITH SODIUM CARBONATE, SODIUM BICARBONATE OR SODIUM HYDROXIDE. DISPOSE OF VIA A LICENSED WASTE DISPOSAL CONTRACTOR. CONTAMINATED ABSORBENT MATERIAL MAY POSE THE SAME HAZARD AS THE SPILLED PRODUCT. NOTE: SEE SECTION 1 FOR EMERGENCY CONTACT INFORMATION AND SECTION 13 FOR WASTE DISPOSAL.

SECTION 7: HANDLING AND STORAGE**PRECAUTIONS FOR SAFE HANDLING**

PROTECTIVE MEASURES: PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). DO NOT GET IN EYES OR ON SKIN OR CLOTHING. DO NOT BREATHE VAPOR OR MIST. DO NOT INGEST. IF DURING NORMAL USE THE MATERIAL PRESENTS A RESPIRATORY HAZARD, USE ONLY WITH ADEQUATE VENTILATION OR WEAR APPROPRIATE RESPIRATOR. KEEP IN THE ORIGINAL CONTAINER OR AN APPROVED ALTERNATIVE MADE FROM A COMPATIBLE MATERIAL, KEPT TIGHTLY CLOSED WHEN NOT IN USE. KEEP AWAY FROM ALKALIS. EMPTY CONTAINERS RETAIN PRODUCT RESIDUE AND CAN BE HAZARDOUS. DO NOT REUSE CONTAINER.

ADVICE ON GENERAL OCCUPATIONAL HYGIENE: EATING, DRINKING AND SMOKING SHOULD BE PROHIBITED IN AREAS WHERE THIS MATERIAL IS HANDLED, STORED AND PROCESSED. WORKERS SHOULD WASH HANDS AND FACE BEFORE EATING, DRINKING AND SMOKING. REMOVE CONTAMINATED CLOTHING AND PROTECTIVE EQUIPMENT BEFORE ENTERING EATING AREAS. SEE ALSO SECTION 8 FOR ADDITIONAL INFORMATION ON HYGIENE MEASURES.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: STORE IN ACCORDANCE WITH LOCAL REGULATIONS. STORE IN ORIGINAL CONTAINER PROTECTED FROM DIRECT SUNLIGHT IN A DRY, COOL AND WELL-VENTILATED AREA, AWAY FROM INCOMPATIBLE MATERIALS (SEE SECTION 10) AND FOOD AND DRINK. STORE LOCKED UP. SEPARATE FROM ALKALIS. KEEP CONTAINER TIGHTLY CLOSED AND SEALED UNTIL READY FOR USE. CONTAINERS THAT HAVE BEEN OPENED MUST BE CAREFULLY RESEALED AND KEPT UPRIGHT TO PREVENT LEAKAGE. DO NOT STORE IN UNLABELED CONTAINERS. USE APPROPRIATE CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION. SEE SECTION 10 FOR INCOMPATIBLE MATERIALS BEFORE HANDLING OR USE.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

CONTROL PARAMETERS

OCCUPATIONAL EXPOSURE LIMITS:

INGREDIENT NAME	EXPOSURE LIMITS
SULPHAMIDIC ACID	NONE.

BIOLOGICAL EXPOSURE INDICES: NO EXPOSURE INDICES KNOWN.

APPROPRIATE ENGINEERING CONTROLS: IF USER OPERATIONS GENERATE DUST, FUMES, GAS, VAPOR OR MIST, USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO KEEP WORKER EXPOSURE TO AIRBORNE CONTAMINANTS BELOW ANY RECOMMENDED OR STATUTORY LIMITS.

ENVIRONMENTAL EXPOSURE CONTROLS: EMISSIONS FROM VENTILATION OR WORK PROCESS EQUIPMENT SHOULD BE CHECKED TO ENSURE THEY COMPLY WITH THE REQUIREMENTS OF ENVIRONMENTAL PROTECTION LEGISLATION. IN SOME CASES, FUME SCRUBBERS, FILTERS OR ENGINEERING MODIFICATIONS TO THE PROCESS EQUIPMENT WILL BE NECESSARY TO REDUCE EMISSIONS TO ACCEPTABLE LEVELS.

INDIVIDUAL PROTECTION MEASURES

HYGIENE MEASURES: WASH HANDS, FOREARMS AND FACE THOROUGHLY AFTER HANDLING CHEMICAL PRODUCTS, BEFORE EATING, SMOKING AND USING THE LAVATORY AND AT THE END OF THE WORKING PERIOD.

APPROPRIATE TECHNIQUES SHOULD BE USED TO REMOVE POTENTIALLY CONTAMINATED CLOTHING. WASH CONTAMINATED CLOTHING BEFORE REUSING. ENSURE THAT EYEWASH STATIONS AND SAFETY SHOWERS ARE CLOSE TO THE WORKSTATION LOCATION.

EYE/FACE PROTECTION: SAFETY EYEWEAR COMPLYING WITH AN APPROVED STANDARD SHOULD BE USED WHEN A RISK ASSESSMENT INDICATES THIS IS NECESSARY TO AVOID EXPOSURE TO LIQUID SPLASHES, MISTS, GASES OR DUSTS. IF CONTACT IS POSSIBLE, THE FOLLOWING PROTECTION SHOULD BE WORN, UNLESS THE ASSESSMENT INDICATES A HIGHER DEGREE OF PROTECTION: CHEMICAL SPLASH GOGGLES AND/ OR FACE SHIELD. IF INHALATION HAZARDS EXIST, A FULL-FACE RESPIRATOR MAY BE REQUIRED INSTEAD.

SKIN PROTECTION:

HAND PROTECTION: CHEMICAL-RESISTANT, IMPERVIOUS GLOVES COMPLYING WITH AN APPROVED STANDARD SHOULD BE WORN AT ALL TIMES WHEN HANDLING CHEMICAL PRODUCTS IF A RISK ASSESSMENT INDICATES THIS IS NECESSARY. CONSIDERING THE PARAMETERS SPECIFIED BY THE GLOVE MANUFACTURER, CHECK DURING USE THAT THE GLOVES ARE STILL RETAINING THEIR PROTECTIVE PROPERTIES. IT SHOULD BE NOTED THAT THE TIME TO BREAKTHROUGH FOR ANY GLOVE MATERIAL MAY BE DIFFERENT FOR DIFFERENT GLOVE MANUFACTURERS. IN THE CASE OF MIXTURES, CONSISTING OF SEVERAL SUBSTANCES, THE PROTECTION TIME OF THE GLOVES CANNOT BE ACCURATELY ESTIMATED.

BODY PROTECTION: PERSONAL PROTECTIVE EQUIPMENT FOR THE BODY SHOULD BE SELECTED BASED ON THE TASK BEING PERFORMED AND THE RISKS INVOLVED AND SHOULD BE APPROVED BY A SPECIALIST BEFORE HANDLING THIS PRODUCT.

OTHER SKIN PROTECTION: APPROPRIATE FOOTWEAR AND ANY ADDITIONAL SKIN PROTECTION MEASURES SHOULD BE SELECTED BASED ON THE TASK BEING PERFORMED AND THE RISKS INVOLVED AND SHOULD BE APPROVED BY A SPECIALIST BEFORE HANDLING THIS PRODUCT.

RESPIRATORY PROTECTION: BASED ON THE HAZARD AND POTENTIAL FOR EXPOSURE, SELECT A RESPIRATOR THAT MEETS THE APPROPRIATE STANDARD OR CERTIFICATION. RESPIRATORS MUST BE USED ACCORDING TO A RESPIRATORY PROTECTION PROGRAM TO ENSURE PROPER FITTING, TRAINING, AND OTHER IMPORTANT ASPECTS OF USE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

THE CONDITIONS OF MEASUREMENT OF ALL PROPERTIES ARE AT STANDARD TEMPERATURE AND PRESSURE UNLESS OTHERWISE INDICATED.

APPEARANCE

PHYSICAL STATE: LIQUID.

COLOR: WHITE TO YELLOWISH.

ODOR: SULFUROUS. [SLIGHT].

ODOR THRESHOLD: NOT AVAILABLE.

PH: <1.

MELTING POINT/FREEZING POINT: NOT AVAILABLE.

BOILING POINT, INITIAL BOILING POINT, AND BOILING RANGE: 105°C (221°F).

FLASH POINT: CLOSED CUP: >93.3°C (>199.9°F).

FLAMMABILITY: NOT AVAILABLE.

LOWER AND UPPER EXPLOSION LIMIT/FLAMMABILITY LIMIT: NOT AVAILABLE.

VAPOR PRESSURE: NOT APPLICABLE.

RELATIVE VAPOR DENSITY: NOT AVAILABLE.

RELATIVE DENSITY: 1.1.

SOLUBILITY IN WATER: NOT AVAILABLE.

PARTITION COEFFICIENT: N-OCTANOL/WATER: NOT APPLICABLE.

AUTO-IGNITION TEMPERATURE: NOT APPLICABLE.

DECOMPOSITION TEMPERATURE: NOT AVAILABLE.

VISCOSITY: NOT AVAILABLE.

PARTICLE CHARACTERISTICS

MEDIAN PARTICLE SIZE: NOT APPLICABLE.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: NO SPECIFIC TEST DATA RELATED TO REACTIVITY AVAILABLE FOR THIS PRODUCT OR ITS INGREDIENTS.

CHEMICAL STABILITY: THE PRODUCT IS STABLE.

POSSIBILITY OF HAZARDOUS REACTIONS: UNDER NORMAL CONDITIONS OF STORAGE AND USE, HAZARDOUS REACTIONS WILL NOT OCCUR.

CONDITIONS TO AVOID: NO SPECIFIC DATA.

INCOMPATIBLE MATERIALS: ATTACKS MANY METALS PRODUCING EXTREMELY FLAMMABLE HYDROGEN GAS WHICH CAN FORM EXPLOSIVE MIXTURES WITH AIR. REACTIVE OR INCOMPATIBLE WITH THE FOLLOWING MATERIALS: ALKALIS.

HAZARDOUS DECOMPOSITION PRODUCTS: UNDER NORMAL CONDITIONS OF STORAGE AND USE, HAZARDOUS DECOMPOSITION PRODUCTS SHOULD NOT BE PRODUCED

SECTION 11: TOXICOLOGICAL INFORMATION
INFORMATION ON TOXICOLOGICAL EFFECTS
ACUTE TOXICITY:

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	DOSE	EXPOSURE
SULPHAMIDIC ACID	LD50 ORAL	RAT	3160 MG/KG	-

IRRITATION/CORROSION:

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	SCORE	EXPOSURE	OBSERVATION
SULPHAMIDIC ACID	EYES - MODERATE IRRITANT	RABBIT	-	20 MG	-
	SKIN - MILD IRRITANT	HUMAN	-	120 HOURS 4 % I	-

SENSITIZATION: NOT AVAILABLE.

MUTAGENICITY: NOT AVAILABLE.

CARCINOGENICITY: NOT AVAILABLE.

REPRODUCTIVE TOXICITY: NOT AVAILABLE.

TERATOGENICITY: NOT AVAILABLE.

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE): NOT AVAILABLE.

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE): NOT AVAILABLE.

ASPIRATION HAZARD: NOT AVAILABLE.

INFORMATION ON THE LIKELY ROUTES OF EXPOSURE: NOT AVAILABLE.

POTENTIAL ACUTE HEALTH EFFECTS
EYE CONTACT: CAUSES SERIOUS EYE DAMAGE.

INHALATION: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

SKIN CONTACT: CAUSES SEVERE BURNS.

INGESTION: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS
EYE CONTACT: ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING: PAIN, WATERING, REDNESS.

INHALATION: NO SPECIFIC DATA.

SKIN CONTACT: ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING: PAIN OR IRRITATION, REDNESS, BLISTERING MAY OCCUR.

INGESTION: ADVERSE SYMPTOMS MAY INCLUDE THE FOLLOWING: STOMACH PAINS.

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE
SHORT TERM EXPOSURE
POTENTIAL IMMEDIATE EFFECTS: NOT AVAILABLE.

POTENTIAL DELAYED EFFECTS: NOT AVAILABLE.

LONG TERM EXPOSURE
POTENTIAL IMMEDIATE EFFECTS: NOT AVAILABLE.

POTENTIAL DELAYED EFFECTS: NOT AVAILABLE.

POTENTIAL CHRONIC HEALTH EFFECTS: NOT AVAILABLE.

GENERAL: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

CARCINOGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

MUTAGENICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

REPRODUCTIVE TOXICITY: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

NUMERICAL MEASURES OF TOXICITY
ACUTE TOXICITY ESTIMATES:

PRODUCT/INGREDIENT NAME	ORAL (MG/KG)	DERMAL (MG/KG)	INHALATION (GASES) (PPM)	INHALATION (VAPORS) (MG/L)	INHALATION (DUSTS AND MISTS) (MG/L)
TARTAR & STAIN REMOVER LIQUID BULK	75059.4	N/A	N/A	N/A	N/A
SULPHAMIDIC ACID	3160	N/A	N/A	N/A	N/A

SECTION 12: ECOLOGICAL INFORMATION
TOXICITY:

PRODUCT/INGREDIENT NAME	RESULT	SPECIES	EXPOSURE
SULPHAMIDIC ACID	ACUTE LC50 14200 MG/L FRESH WATER	FISH - <i>PIMEPHALES PROMELAS</i>	96 HOURS

PERSISTENCE AND DEGRADABILITY: NOT AVAILABLE.

BIOACCUMULATIVE POTENTIAL:

PRODUCT/INGREDIENT NAME	LOGPOW	BCF	POTENTIAL
SULPHAMIDIC ACID	0.101	-	LOW






MOBILITY IN SOIL
SOIL/WATER PARTITION COEFFICIENT (KOC): NOT AVAILABLE.

OTHER ADVERSE EFFECTS: NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHODS: THE GENERATION OF WASTE SHOULD BE AVOIDED OR MINIMIZED WHEREVER POSSIBLE. DISPOSAL OF THIS PRODUCT, SOLUTIONS AND ANY BY-PRODUCTS SHOULD AT ALL TIMES COMPLY WITH THE REQUIREMENTS OF ENVIRONMENTAL PROTECTION AND WASTE DISPOSAL LEGISLATION AND ANY REGIONAL LOCAL AUTHORITY REQUIREMENTS. DISPOSE OF SURPLUS AND NON-RECYCLABLE PRODUCTS VIA A LICENSED WASTE DISPOSAL CONTRACTOR. WASTE SHOULD NOT BE DISPOSED OF UNTREATED TO THE SEWER UNLESS FULLY COMPLIANT WITH THE REQUIREMENTS OF ALL AUTHORITIES WITH JURISDICTION. WASTE PACKAGING SHOULD BE RECYCLED. INCINERATION OR LANDFILL SHOULD ONLY BE CONSIDERED WHEN RECYCLING IS NOT FEASIBLE. THIS MATERIAL AND ITS CONTAINER MUST BE DISPOSED OF IN A SAFE WAY. CARE SHOULD BE TAKEN WHEN HANDLING EMPTIED CONTAINERS THAT HAVE NOT BEEN CLEANED OR RINSED OUT. EMPTY CONTAINERS OR LINERS MAY RETAIN SOME PRODUCT RESIDUES. AVOID DISPERSAL OF SPILLED MATERIAL AND RUNOFF AND CONTACT WITH SOIL, WATERWAYS, DRAINS AND SEWERS.

SECTION 14: TRANSPORT INFORMATION

	DOT CLASSIFICATION	TDG CLASSIFICATION	MEXICO CLASSIFICATION	IMDG	IATA
UN NUMBER	UN3264	UN3264	UN3264	UN3264	UN3264
UN PROPER SHIPPING NAME	CORROSIVE LIQUID, ACIDIC, INORGANIC, N. O.S.(SULFAMIC ACID)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.(SULFAMIC ACID)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.(SULFAMIC ACID)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N. O.S.(SULFAMIC ACID)	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.(SULFAMIC ACID)
TRANSPORT HAZARD CLASS(ES)	8 	8 	8 	8 	8 
PACKING GROUP	III	III	III	III	III
ENVIRONMENTAL HAZARDS	NO.	NO.	NO.	NO.	NO.

ADDITIONAL INFORMATION
TDG CLASSIFICATION: PRODUCT CLASSIFIED AS PER THE FOLLOWING SECTIONS OF THE TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: 2.40-2.42 (CLASS 8).

SPECIAL PRECAUTIONS FOR USER: TRANSPORT WITHIN USER'S PREMISES: ALWAYS TRANSPORT IN CLOSED CONTAINERS THAT ARE UPRIGHT AND SECURE. ENSURE THAT PERSONS TRANSPORTING THE PRODUCT KNOW WHAT TO DO IN THE EVENT OF AN ACCIDENT OR SPILLAGE.

TRANSPORT IN BULK ACCORDING TO IMO INSTRUMENTS: NOT AVAILABLE.

SECTION 15: REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: TSCA 8(A) CDR EXEMPT/PARTIAL EXEMPTION: NOT DETERMINED

CLEAN AIR ACT SECTION 112 (B) HAZARDOUS AIR POLLUTANTS (HAPS): NOT LISTED

CLEAN AIR ACT SECTION 602 CLASS I SUBSTANCES: NOT LISTED

CLEAN AIR ACT SECTION 602 CLASS II SUBSTANCES: NOT LISTED

DEA LIST I CHEMICALS (PRECURSOR CHEMICALS): NOT LISTED

DEA LIST II CHEMICALS (ESSENTIAL CHEMICALS): NOT LISTED

SARA 302/304

COMPOSITION/INFORMATION ON INGREDIENTS: NO PRODUCTS WERE FOUND.

SARA 304 RQ: NOT APPLICABLE.

SARA 311/312

CLASSIFICATION: SKIN CORROSION - CATEGORY 1

SERIOUS EYE DAMAGE - CATEGORY 1

COMPOSITION/INFORMATION ON INGREDIENTS

NAME	%	CLASSIFICATION
SULPHAMIDIC ACID	≤5	SKIN IRRITATION - CATEGORY 2 EYE IRRITATION - CATEGORY 2A

STATE REGULATIONS

MASSACHUSETTS: NONE OF THE COMPONENTS ARE LISTED.

NEW YORK: NONE OF THE COMPONENTS ARE LISTED.

NEW JERSEY: THE FOLLOWING COMPONENTS ARE LISTED: SULPHAMIC ACID.

PENNSYLVANIA: NONE OF THE COMPONENTS ARE LISTED.

CALIFORNIA PROP. 65: THIS PRODUCT DOES NOT REQUIRE A SAFE HARBOR WARNING UNDER CALIFORNIA PROP. 65.

INTERNATIONAL REGULATIONS:

CHEMICAL WEAPON CONVENTION LIST SCHEDULES I, II & III CHEMICALS: NOT LISTED.

MONTREAL PROTOCOL: NOT LISTED.

STOCKHOLM CONVENTION ON PERSISTENT ORGANIC POLLUTANTS: NOT LISTED.

ROTTERDAM CONVENTION ON PRIOR INFORMED CONSENT (PIC): NOT LISTED.

UNECE AARHUS PROTOCOL ON POPS AND HEAVY METALS: NOT LISTED.

INVENTORY LIST

AUSTRALIA: ALL COMPONENTS ARE LISTED OR EXEMPTED.

CANADA: ALL COMPONENTS ARE LISTED OR EXEMPTED.

CHINA: ALL COMPONENTS ARE LISTED OR EXEMPTED.

EURASIAN ECONOMIC UNION: RUSSIAN FEDERATION INVENTORY: ALL COMPONENTS ARE LISTED OR EXEMPTED.

JAPAN: JAPAN INVENTORY (CSCL): ALL COMPONENTS ARE LISTED OR EXEMPTED.

JAPAN INVENTORY (ISHL): NOT DETERMINED.

NEW ZEALAND: ALL COMPONENTS ARE LISTED OR EXEMPTED.

PHILIPPINES: ALL COMPONENTS ARE LISTED OR EXEMPTED.

REPUBLIC OF KOREA: ALL COMPONENTS ARE LISTED OR EXEMPTED.

TAIWAN: ALL COMPONENTS ARE LISTED OR EXEMPTED.

THAILAND: ALL COMPONENTS ARE LISTED OR EXEMPTED.

TURKEY: NOT DETERMINED.

UNITED STATES: ALL COMPONENTS ARE LISTED OR EXEMPTED.

VIET NAM: ALL COMPONENTS ARE LISTED OR EXEMPTED.

SECTION 16: ADDITIONAL INFORMATION

HAZARDOUS MATERIAL INFORMATION SYSTEM (U.S.A.)

HEALTH	/	3
FLAMMABILITY		1
PHYSICAL HAZARDS		0

CAUTION: HMIS[®] RATINGS ARE BASED ON A 0-4 RATING SCALE, WITH 0 REPRESENTING MINIMAL HAZARDS OR RISKS, AND 4 REPRESENTING SIGNIFICANT HAZARDS OR RISKS. ALTHOUGH HMIS[®] RATINGS AND THE ASSOCIATED LABEL ARE NOT REQUIRED ON SDS OR PRODUCTS LEAVING A FACILITY UNDER 29 CFR 1910.1200, THE PREPARER MAY CHOOSE TO PROVIDE THEM. HMIS[®] RATINGS ARE TO BE USED WITH A FULLY IMPLEMENTED HMIS[®] PROGRAM. HMIS[®] IS A REGISTERED TRADEMARK AND SERVICE MARK OF THE AMERICAN COATINGS ASSOCIATION, INC.

THE CUSTOMER IS RESPONSIBLE FOR DETERMINING THE PPE CODE FOR THIS MATERIAL. FOR MORE INFORMATION ON HMIS[®] PERSONAL PROTECTIVE EQUIPMENT (PPE) CODES, CONSULT THE HMIS[®] IMPLEMENTATION MANUAL.

NATIONAL FIRE PROTECTION ASSOCIATION (U.S.A.)



PROCEDURE USED TO DERIVE THE CLASSIFICATION:

CLASSIFICATION	JUSTIFICATION
SKIN CORROSION - CATEGORY 1 SERIOUS EYE DAMAGE - CATEGORY 1	ON BASIS OF TEST DATA ON BASIS OF TEST DATA

KEY TO ABBREVIATIONS: ATE = ACUTE TOXICITY ESTIMATE
 BCF = BIOCONCENTRATION FACTOR
 GHS = GLOBALLY HARMONIZED SYSTEM OF CLASSIFICATION AND LABELLING OF CHEMICALS
 IATA = INTERNATIONAL AIR TRANSPORT ASSOCIATION
 IBC = INTERMEDIATE BULK CONTAINER
 IMDG = INTERNATIONAL MARITIME DANGEROUS GOODS
 LOGPOW = LOGARITHM OF THE OCTANOL/WATER PARTITION COEFFICIENT
 MARPOL = INTERNATIONAL CONVENTION FOR THE PREVENTION OF POLLUTION FROM SHIPS, 1973 AS MODIFIED BY THE PROTOCOL OF 1978. ("MARPOL" = MARINE POLLUTION)
 N/A = NOT AVAILABLE
 SGG = SEGREGATION GROUP
 UN = UNITED NATIONS

REFERENCES: NOT AVAILABLE.

NOTICE TO READER: TO THE BEST OF OUR KNOWLEDGE, THE INFORMATION CONTAINED HEREIN IS ACCURATE. HOWEVER, NEITHER THE ABOVE-NAMED SUPPLIER, NOR ANY OF ITS SUBSIDIARIES, ASSUMES ANY LIABILITY WHATSOEVER FOR THE ACCURACY OR COMPLETENESS OF THE INFORMATION CONTAINED HEREIN.

FINAL DETERMINATION OF SUITABILITY OF ANY MATERIAL IS THE SOLE RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

INFORMATION CONTAINED WITHIN THIS SDS IS ONLY TO BE DISTRIBUTED AS REQUIRED BY LAW.

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