

Common Name: S-T DRAIN OPENER

Manufacturer: SANTEEN PRODUCTS

SDS Revision Date: 7/3/2015

SDS Format: GHS-US

Item Number(s): 32UU97, 32UU98

Manufacturer Model Number(s):

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SAFETY DATA SHEET

ISSUE DATE: 30-DEC-2009

REVISION DATE: 03-JUL-2015

VERSION: 2

1. IDENTIFICATION



PRODUCT IDENTIFIER:

PRODUCT NAME: S-T DRAIN OPENER

OTHER MEANS OF IDENTIFICATION:

SDS #: SAPC-001

UN/ID NO: UN1830

RECOMMENDED USE OF THE CHEMICAL AND RESTRICTIONS ON USE:

RECOMMENDED USE: ACID CLEANER.

DETAILS OF THE SUPPLIER OF THE SAFETY DATA SHEET:

SUPPLIER ADDRESS:

SANTEEN PRODUCTS COMPANY
10509 MILLER DRIVE
GALESBURG, MI 49053

EMERGENCY TELEPHONE NUMBER:

COMPANY PHONE NUMBER: 616-502-4928

EMERGENCY TELEPHONE (24 HR):

INFOTRAC:

1-352-323-3500 (INTERNATIONAL)
1-800-535-5053 (NORTH AMERICA)

2. HAZARDS IDENTIFICATION



APPEARANCE: BROWN LIQUID

PHYSICAL STATE: LIQUID

ODOR: DISTINCT ODOR

CLASSIFICATION:

SKIN CORROSION/IRRITATION: CATEGORY 1 SUB-CATEGORY B
SERIOUS EYE DAMAGE/EYE IRRITATION: CATEGORY 1
CORROSIVE TO METALS: CATEGORY 1

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC): MAY BE HARMFUL IF SWALLOWED

SIGNAL WORD: DANGER

HAZARD STATEMENTS:

CAUSES SEVERE SKIN BURNS AND EYE DAMAGE
MAY BE CORROSIVE TO METALS

CORROSION

PRECAUTIONARY STATEMENTS - PREVENTION:

DO NOT BREATHE DUST/FUME/GAS/MIST/VAPORS/SPRAY
WASH FACE, HANDS AND ANY EXPOSED SKIN THOROUGHLY AFTER HANDLING
WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION
KEEP ONLY IN ORIGINAL CONTAINER

PRECAUTIONARY STATEMENTS - RESPONSE:

IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN

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

IF ON SKIN (OR HAIR):

REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH
WATER/SHOWER

WASH CONTAMINATED CLOTHING BEFORE REUSE

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

IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING

IN CASE OF SPILL: ABSORB SPILLAGE TO PREVENT MATERIAL DAMAGE

PRECAUTIONARY STATEMENTS - STORAGE:

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

3. COMPOSITION/INFORMATION ON INGREDIENTS



CHEMICAL NAME	CAS NO	WEIGHT-%
SULFURIC ACID	7664-93-9	85-87

IF CHEMICAL NAME/CAS NO IS "PROPRIETARY" AND/OR WEIGHT-% IS LISTED AS A RANGE, THE SPECIFIC CHEMICAL IDENTITY AND/OR PERCENTAGE OF COMPOSITION HAS BEEN WITHHELD AS A TRADE SECRET.

4. FIRST-AID MEASURES



FIRST AID MEASURES:

GENERAL ADVICE: PROVIDE THIS SDS TO MEDICAL PERSONNEL FOR TREATMENT.

EYE CONTA:

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 CONTACT:

IF ON SKIN (OR HAIR):

REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER. IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. 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.

INGESTION:

IF SWALLOWED:

RINSE MOUTH. DO NOT INDUCE VOMITING. IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN.

MOST IMPORTANT SYMPTOMS AND EFFECTS:

SYMPTOMS:

MAY BE HARMFUL IF SWALLOWED. CAUSES SEVERE SKIN BURNS AND EYE DAMAGE.

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

NOTES TO PHYSICIAN: TREAT SYMPTOMATICALLY.

5. FIRE-FIGHTING MEASURES



SUITABLE EXTINGUISHING MEDIA:

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

UNSUITABLE EXTINGUISHING MEDIA: NOT DETERMINED.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: NOT DETERMINED.

HAZARDOUS COMBUSTION PRODUCTS:

CONTACT WITH SOFT METALS MAY EVOLVE FLAMMABLE HYDROGEN GAS.

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: USE PERSONAL PROTECTIVE EQUIPMENT AS REQUIRED.

ENVIRONMENTAL PRECAUTIONS:

SEE SECTION 12 FOR ADDITIONAL ECOLOGICAL INFORMATION.

METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:

METHODS FOR CONTAINMENT:

PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO.

METHODS FOR CLEAN-UP:

SOAK UP WITH ABSORBENT MATERIAL. NEUTRALIZE WITH AN ALKALINE MATERIAL. COLLECT SPILLAGE. DISPOSE OF CONTENTS/CONTAINER TO AN APPROVED WASTE DISPOSAL PLANT.

7. HANDLING AND STORAGE



PRECAUTIONS FOR SAFE HANDLING:

ADVICE ON SAFE HANDLING:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING AND EYE/FACE PROTECTION. DO NOT BREATHE DUST/FUME/GAS/MIST/VAPORS/SPRAY. WASH FACE, HANDS, AND ANY EXPOSED SKIN THOROUGHLY AFTER HANDLING. KEEP ONLY IN ORIGINAL CONTAINER.

CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES:

STORAGE CONDITIONS:

KEEP CONTAINER TIGHTLY CLOSED AND STORE IN A COOL, DRY AND WELL-VENTILATED PLACE. STORE LOCKED UP. STORE IN CORROSIVE RESISTANT CONTAINER WITH A RESISTANT INNER LINER.

INCOMPATIBLE MATERIALS: METALS. WATER. CHLORINE BLEACH. OXIDIZING AGENTS.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



EXPOSURE GUIDELINES:

CHEMICAL NAME	ACGIH TLV	OSHA PEL	NIOSH IDLH
SULFURIC ACID	TWA: 0.2 MG/M3	TWA: 1 MG/M3 (VACATED)	IDLH: 15 MG/M3
7664-93-9	THORACIC FRACTION	TWA: 1 MG/M3	TWA: 1 MG/M3

APPROPRIATE ENGINEERING CONTROLS:

ENGINEERING CONTROLS:

APPLY TECHNICAL MEASURES TO COMPLY WITH THE OCCUPATIONAL EXPOSURE LIMITS.
SHOWERS. EYEWASH STATIONS. VENTILATION SYSTEMS.

INDIVIDUAL PROTECTION MEASURES, SUCH AS PERSONAL PROTECTIVE EQUIPMENT:

EYE/FACE PROTECTION:

GOGGLES. FACE PROTECTION SHIELD. REFER TO 29 CFR 1910.133 FOR EYE AND FACE PROTECTION REGULATIONS.

SKIN AND BODY PROTECTION:

CHEMICAL RESISTANT GLOVES. IMPERVIOUS FOOTWEAR. REFER TO 29 CFR 1910.138 FOR APPROPRIATE SKIN AND BODY PROTECTION.

RESPIRATORY PROTECTION:

NO PROTECTIVE EQUIPMENT IS NEEDED UNDER NORMAL USE CONDITIONS. IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT. REFER TO 29 CFR 1910.134 FOR RESPIRATORY PROTECTION REQUIREMENTS.

GENERAL HYGIENE CONSIDERATIONS:

HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE.

9. PHYSICAL AND CHEMICAL PROPERTIES



INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

PHYSICAL STATE: LIQUID

APPEARANCE: BROWN LIQUID

ODOR: DISTINCT ODOR

COLOR: BROWN

ODOR THRESHOLD: NOT DETERMINED

PROPERTY	VALUES	REMARKS - METHOD
PH	<1	
MELTING POINT/FREEZING POINT	NOT DETERMINED	
BOILING POINT/BOILING RANGE	276.1 DEG. C / 529 DEG. F	(APPROXIMATE)
FLASH POINT	NOT DETERMINED	
EVAPORATION RATE	NOT DETERMINED	
FLAMMABILITY (SOLID, GAS)	LIQUID- NOT APPLICABLE	
UPPER FLAMMABILITY LIMITS	NOT DETERMINED	
LOWER FLAMMABILITY LIMIT	NOT DETERMINED	
VAPOR PRESSURE	1.7 MM	@ 121 DEG. C

VAPOR DENSITY	>1	(AIR=1)
SPECIFIC GRAVITY	1.793	(WATER = 1)
WATER SOLUBILITY	MISCIBLE IN WATER	
SOLUBILITY IN OTHER SOLVENTS	NOT DETERMINED	
PARTITION COEFFICIENT	NOT DETERMINED	
AUTO-IGNITION TEMPERATURE	NOT DETERMINED	
DECOMPOSITION TEMPERATURE	NOT DETERMINED	
KINEMATIC VISCOSITY	NOT DETERMINED	
DYNAMIC VISCOSITY	NOT DETERMINED	
EXPLOSIVE PROPERTIES	NOT DETERMINED	
OXIDIZING PROPERTIES	NOT DETERMINED	

10. STABILITY AND REACTIVITY



REACTIVITY: NOT REACTIVE UNDER NORMAL CONDITIONS.

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: KEEP OUT OF REACH OF CHILDREN.

INCOMPATIBLE MATERIALS: METALS. WATER. CHLORINE BLEACH. OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS:

FLAMMABLE HYDROGEN GAS GENERATED IN CONTACT WITH SOFT METALS.

11. TOXICOLOGICAL INFORMATION



INFORMATION ON LIKELY ROUTES OF EXPOSURE:

PRODUCT INFORMATION:

EYE CONTACT: CAUSES SEVERE EYE DAMAGE.

SKIN CONTACT: CAUSES SEVERE SKIN BURNS.

INHALATION: DO NOT INHALE.

INGESTION: MAY BE HARMFUL IF SWALLOWED.

COMPONENT INFORMATION:

CHEMICAL NAME	ORAL LD50	DERMAL LD50	INHALATION LC50
SULFURIC ACID	= 2140 MG/KG (RAT)		= 510 MG/M3 (RAT) 2 H
7664-93-9			

INFORMATION ON PHYSICAL, CHEMICAL AND TOXICOLOGICAL EFFECTS:

SYMPTOMS: PLEASE SEE SECTION 4 OF THIS SDS FOR SYMPTOMS.

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

CARCINOGENICITY:

IARC HAS CLASSIFIED "STRONG INORGANIC ACID MIST CONTAINING SULFURIC ACID" AS A CATEGORY 1 CARCINOGEN, SUBSTANCE THAT IS CARCINOGENIC TO HUMANS. THIS CLASSIFICATION DOES NOT APPLY TO LIQUID FORMS OF SULFURIC ACID. INORGANIC MIST IS NOT GENERATED UNDER NORMAL USE OF THIS PRODUCT.

CHEMICAL NAME	ACGIH	IARC	NTP	OSHA
SULFURIC ACID 7664-93-9	A2	GROUP 1	KNOWN	X

LEGEND:

ACGIH (AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS):
A2 - SUSPECTED HUMAN CARCINOGEN

IARC (INTERNATIONAL AGENCY FOR RESEARCH ON CANCER):
GROUP 1 - CARCINOGENIC TO HUMANS

NTP (NATIONAL TOXICOLOGY PROGRAM):
KNOWN - KNOWN CARCINOGEN

OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION OF THE US DEPARTMENT OF LABOR): X - PRESENT

NUMERICAL MEASURES OF TOXICITY: NOT DETERMINED

12. ECOLOGICAL INFORMATION



ECOTOXICITY:

THE PRODUCT IS NOT CLASSIFIED AS ENVIRONMENTALLY HAZARDOUS. HOWEVER, THIS DOES NOT EXCLUDE THE POSSIBILITY THAT LARGE OR FREQUENT SPILLS CAN HAVE A HARMFUL OR DAMAGING EFFECT ON THE ENVIRONMENT.

COMPONENT INFORMATION:

CHEMICAL NAME	ALGAE/AQUATIC PLANTS	FISH	TOXICITY TO MICROORGANISMS	CRUSTACEA
SULFURIC ACID 7664-93-9		500: 96 H BRACHYDANIO RERIO MG/L LC50 STATIC		29: 24 H DAPHNIA MAGNA MG/L EC50

PERSISTENCE/DEGRADABILITY: NOT DETERMINED.

BIOACCUMULATION: NOT DETERMINED.

MOBILITY: NOT DETERMINED

OTHER ADVERSE EFFECTS: NOT DETERMINED

13. DISPOSAL CONSIDERATIONS



WASTE TREATMENT METHODS:

DISPOSAL OF WASTES:

DISPOSAL SHOULD BE IN ACCORDANCE WITH APPLICABLE REGIONAL, NATIONAL AND

LOCAL LAWS AND REGULATIONS.

CONTAMINATED PACKAGING:

DISPOSAL SHOULD BE IN ACCORDANCE WITH APPLICABLE REGIONAL, NATIONAL AND LOCAL LAWS AND REGULATIONS.

CALIFORNIA HAZARDOUS WASTE STATUS:

CHEMICAL NAME	CALIFORNIA HAZARDOUS WASTE STATUS
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SULFURIC ACID	TOXIC
7664-93-9	CORROSIVE

14. TRANSPORT INFORMATION



NOTE:

PLEASE SEE CURRENT SHIPPING PAPER FOR MOST UP TO DATE SHIPPING INFORMATION, INCLUDING EXEMPTIONS AND SPECIAL CIRCUMSTANCES.

DOT:

UN/ID NO: UN1830
PROPER SHIPPING NAME: SULFURIC ACID
HAZARD CLASS: 8
PACKING GROUP: II

IATA:

UN/ID NO: UN1830
PROPER SHIPPING NAME: SULFURIC ACID
HAZARD CLASS: 8
PACKING GROUP: II

IMDG:

UN/ID NO: UN1830
PROPER SHIPPING NAME: SULFURIC ACID
HAZARD CLASS: 8
PACKING GROUP: II

15. REGULATORY INFORMATION



INTERNATIONAL INVENTORIES:

CHEMICAL NAME	TSCA	DSL	NDSL	EINECS	ELINCS
SULFURIC ACID	PRESENT	X		PRESENT	

CHEMICAL NAME	ENCS	IECSC	KECL	PICCS	AICS
SULFURIC ACID	PRESENT	X	PRESENT	X	X

LEGEND:

TSCA: UNITED STATES TOXIC SUBSTANCES CONTROL ACT SECTION 8(B) INVENTORY

DSL/NDSL: CANADIAN DOMESTIC SUBSTANCES LIST/NON-DOMESTIC SUBSTANCES LIST

EINECS/ELINCS:

EUROPEAN INVENTORY OF EXISTING CHEMICAL SUBSTANCES/EUROPEAN LIST OF NOTIFIED CHEMICAL SUBSTANCES

ENCS: JAPAN EXISTING AND NEW CHEMICAL SUBSTANCES

IECSC: CHINA INVENTORY OF EXISTING CHEMICAL SUBSTANCES

KECL: KOREAN EXISTING AND EVALUATED CHEMICAL SUBSTANCES

PICCS: PHILIPPINES INVENTORY OF CHEMICALS AND CHEMICAL SUBSTANCES

AICS: AUSTRALIAN INVENTORY OF CHEMICAL SUBSTANCES

US FEDERAL REGULATIONS:

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	CERCLA/SARA RQ	REPORTABLE QUANTITY (RQ)
SULFURIC ACID 7664-93-9	1000 LB	1000 LB	RQ 1000 LB FINAL RQ RQ 454 KG FINAL RQ

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 %
SULFURIC ACID 7664-93-9	7664-93-9	85-87	1.0

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
SULFURIC ACID 1000 LB				X

US STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:

THIS PRODUCT CONTAINS THE FOLLOWING PROPOSITION 65 CHEMICALS.

CHEMICAL NAME	CALIFORNIA PROPOSITION 65
SULFURIC ACID 7664-93-9	CARCINOGEN

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

CHEMICAL NAME	NEW JERSEY	MASSACHUSETTS	PENNSYLVANIA
SULFURIC ACID 7664-93-9	X	X	X

16. OTHER INFORMATION



NFPA:

HEALTH HAZARDS	3
FLAMMABILITY	0
INSTABILITY	2

SPECIAL HAZARDS NOT DETERMINED

HMIS:

HEALTH HAZARDS	NOT DETERMINED
FLAMMABILITY	NOT DETERMINED
PHYSICAL HAZARDS	NOT DETERMINED
PERSONAL PROTECTION	NOT DETERMINED

ISSUE DATE: 30-DEC-2009

REVISION DATE: 03-JUL-2015

REVISION NOTE: NEW FORMAT

DISCLAIMER:

THE INFORMATION PROVIDED IN THIS SAFETY DATA SHEET IS CORRECT TO THE BEST OF OUR KNOWLEDGE, INFORMATION AND BELIEF AT THE DATE OF ITS PUBLICATION. THE INFORMATION GIVEN IS DESIGNED ONLY AS A GUIDANCE FOR SAFE HANDLING, USE, PROCESSING, STORAGE, TRANSPORTATION, DISPOSAL AND RELEASE AND IS NOT TO BE CONSIDERED A WARRANTY OR QUALITY SPECIFICATION. THE INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR IN ANY PROCESS, UNLESS SPECIFIED IN THE TEXT.