



Green Plains

GHS SAFETY DATA SHEET

SANITARY SEWER WASTE WATER

SDS DATE: 09/28/2017

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME (GHS Product Identifier): Sanitary sewer waste water
(Other means of Identification): Sewer water, effluent

PRODUCT INTENDED USE AND RESTRICTION: Waste by-product of human and industrial activity

MANUFACTURER: Green Plains, Inc.
DIVISION:

Green Plains Atkinson LLC. 87590 Hill Crest Rd. Atkinson, NE 68713 P.O. Box 391, Atkinson, NE 68713 Phone: 402-925-5570 Fax: 402-925-2988 <input checked="" type="checkbox"/>	Green Plains Bluffton LLC. 1441 S. Adams St., Bluffton, IN 46714 Phone: 260-353-1212 Fax: 260-353-1100 <input checked="" type="checkbox"/>	Green Plains Central City LLC. 214 20 th St., Central City, NE 68826 Phone: 308-946-9700 Fax: 308-946-2623 <input checked="" type="checkbox"/>	Green Plains Fairmont LLC. 1125 N Bixby Road, Fairmont, MN 56031 Phone: 507-238-3600 Fax: 507-238-3624 <input checked="" type="checkbox"/>	Green Plains Hereford LLC 4300 County Road 8 Hereford, TX 79045 Phone: 806-258-7800 Fax: 806-258-7801 <input checked="" type="checkbox"/>
Green Plains Holdings II LLC.-Lakota 1660 428 th St., Lakota, IA 50451 Phone: 515-886-2222 Fax: 515-886-2127 <input checked="" type="checkbox"/>	Green Plains Holdings II LLC.-Riga 7025 Siberhorn Hwy, Blissfield, MI 49228 P.O. Box 12, Riga, MI 49276 Phone: 517-486-6190 Fax: 517-486-6192 <input checked="" type="checkbox"/>	Green Plains Hopewell LLC 701 South 6th Avenue Hopewell, VA 23860 Phone: 804-668-0010 Fax: 804-668-0020 <input checked="" type="checkbox"/>	Green Plains Madison LLC 395 Bissell St Madison, IL 63060 Phone: 618-451-4420 Fax: 618-452-8946 <input checked="" type="checkbox"/>	Green Plains Mt Vernon LLC 8999 W Franklin Rd Mt Vernon, IN 47620 Phone: 812-985-4023 Fax: 812-985-9983 <input checked="" type="checkbox"/>
Green Plains Obion LLC. 2098 McDonald Rd., Rives, TN 38253/P.O. Box 95, Obion, TN 38240 Phone: 731-536-1286 Fax: 731-536-1434 <input checked="" type="checkbox"/>	Green Plains Ord LLC. 48267 Val-E Road, Ord, NE 68862 Phone: 308-496-4823 Fax: 308-496-4890 <input checked="" type="checkbox"/>	Green Plains Otter Tail LLC. 24096 170th Ave., Fergus Falls, MN 56537 Phone: 218-998-4301 Fax: 218-998-4302 <input checked="" type="checkbox"/>	Green Plains Shenandoah LLC. 4124 Airport Rd., Shenandoah, IA 51601 Phone: 712-246-2932 Fax: 712-246-3988 <input checked="" type="checkbox"/>	Green Plains Superior LLC. 1495 320th Ave, Superior, IA 51363 Phone: 712-858-4666 Fax: 712-858-4684 <input checked="" type="checkbox"/>
Green Plains Wood River LLC. 7874 South 140th Road, Wood River, NE 68883 Phone: 308-385-1200 Fax: 308-385-9990 <input checked="" type="checkbox"/>	Green Plains York LLC 1414 County Rd O York, NE 68467 Phone: 402-362-2285 Fax: 402-362-7041 <input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Green Plains Grain Company LLC. Archer 2132 Archer Road Archer, NE 68816 Phone: 308-795-2211 <input type="checkbox"/>	Green Plains Grain Company LLC. Cimarron 19016 Road I Kismet, KS 67859 Phone: 620-624-6296 Fax: 620-624-4411 <input type="checkbox"/>	Green Plains Grain Company LLC. Essex 411 North Street, Essex, IA 51638 Phone: 712-379-3155 Fax: 712-379-3175 <input type="checkbox"/>	Green Plains Grain Company LLC. Hopkins 200 N. Railroad Hopkins, MO 64461 Phone: 660-778-3331 Fax: 660-778-3676 <input type="checkbox"/>	<input type="checkbox"/>

CHEMTREC PHONE (24HR Emergency Telephone): 1-800-424-9300 (Within U.S.A)

INTERNATIONAL CHEMTREC CALL: 1-703-527-3887

OTHER CALLS: 1-402-884-8700 (M-F, 8 AM-5 PM, Central time (U.S.A & Canada); within U.S.A)

FAX PHONE: 1-402-884-8776 (M-F, 8 AM-5 PM, Central time (U.S.A & Canada); within U.S.A)

SECTION 1 NOTES: None Available

SECTION 2: HAZARDS IDENTIFICATION

GHS LABELING AND CLASSIFICATION: This product meets the definition of the following hazard classes as defined by the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).



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GHS CLASSIFICATION ACCORDING TO ANNEX II:

HEALTH	ENVIRONMENTAL	PHYSICAL
Acute toxicity (Oral)-Category 4 Acute toxicity (Inhalation)-Category 4	Acute Aquatic Hazard 3	Not applicable
SIGNAL WORD:		WARNING
SYMBOL:		
HAZARD STATEMENT:		H302: Harmful if swallowed H332: Harmful if inhaled H402: Harmful to aquatic life
PRECAUTIONARY STATEMENTS:	PREVENTIVE:	P261: Avoid breathing dust/fume/gas/mist/vapors/spray P264: Wash///thoroughly after handling P270: Do not eat, drink or smoke when using this product P271: Use only outdoors or in a well-ventilated area P273: Avoid release to the environment P280: Wear protective gloves/protective clothing/eye protection/face protection
	RESPONSE:	P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor/.../if you feel unwell P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing
	STORAGE:	N/A
	DISPOSAL:	P501: Dispose of contents/container to ..in accordance with local/regional/national/international regulation

Any Regional Considerations: N/A

SECTION 2 NOTES: Sewage may contain water, urine, feces, other biological components, blood pathogen, and industrial wastes. Certain jobs requiring entering into sewer pipe would pose more risk because the adverse atmosphere conditions in the confined space. Death cases due to working inside the sanitary sewer manhole were reported. Special cautions must be taken. It is critical that procedures for safe confined space entry are utilized each time a worker enters a confined space.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME: Dihydrogen Oxide
COMMON NAME: Water
CHEMICAL FAMILY: N/A
CHEMICAL FORMULA: H₂O
SYNONYMS: N/A

INGREDIENT: Water

NAME	CAS#	EC#	ICSC#	% WT	% VOL
Water	7732-18-5	231-791-2	None	95.0%-100%	95.0%-100%

CARCINOGENICITY

OSHA: NOT APPLICABLE
OTHER: N/A

ACGIH: NOT APPLICABLE

NTP: NOT APPLICABLE

IARC: NOT APPLICABLE

IMPURITIES/STABILIZING ADDITIVES IDENTIFICATION: N/A

IMPURITIES/STABILIZING ADDITIVES CLASSIFICATION (if applicable): N/A

SECTION 3 NOTES: None Available

SECTION 4: FIRST AID MEASURES

Contaminated individuals of chemical exposure must be taken for medical attention if any adverse effect occurs. Rescuers should be taken for medical attention, if necessary. Take copy of label and MSDS to health professional with contaminated individual.

EMERGENCY OVERVIEW: Sanitary sewer waste water contains human waste material that may present human health hazards and adverse effects on the environment when untreated. Sewer water may contain fecal coliform bacteria, which, according to some authorities, may indicate a higher risk of pathogens being present in the water. Some waterborne pathogenic diseases that may coincide with fecal coliform contamination include ear infections, dysentery, typhoid fever, viral and bacterial gastroenteritis, and hepatitis A. The presence of fecal coliform tends to affect humans more than it does aquatic creatures, though not exclusively.



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Untreated organic matter that contains fecal coliform can be harmful to the environment. Aerobic decomposition of this material can reduce dissolved oxygen levels if discharged into rivers or waterways. This may reduce the oxygen level enough to kill fish and other aquatic life. Reduction of fecal coliform in wastewater may require the use of chlorine and other disinfectant chemicals. Such materials may kill the fecal coliform and disease bacteria. They also kill bacteria essential to the proper balance of the aquatic environment, endangering the survival of species dependent on those bacteria. So higher levels of fecal coliform require higher levels of chlorine and threat those aquatic organisms.

Sewer waste water may also be accompanied by sewer gas, a complex mixture of toxic and non-toxic gases produced and collected in sewage systems by the decomposition of organic household or industrial waste. Sewer gases include hydrogen sulfide, ammonia, methane, carbon dioxide, sulfur dioxide and nitrogen oxides. Improper disposal of petroleum products such as gasoline and mineral spirits contribute to sewer gas hazards. Sewer gases are of concern due to their odor, health effects, and potential for creating fire or explosion.

ROUTES OF ENTRY/FIRST AID:

EYES CONTACT: Flush with water for 15 minutes

SKIN CONTACT: Wash with water

INHALATION: Remove victim to fresh air as quickly as possible. If victim is not breathing qualified personnel should administer artificial respiration and call for medical attention. If breathing is difficult, administer oxygen

INGESTION: No first aid should be needed

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: N/A

NOTES TO PHYSICIANS OR FIRST AID PROVIDERS: N/A

SECTION 4 NOTES: Rescuers should not attempt to retrieve victims of exposure to this product without adequate personal protective equipment, which should include-at minimum-self-contained breathing apparatus

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Use appropriate media for surrounding fire

PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE FIGHTERS: Use self-contained breathing apparatus in case of hydrogen sulfide/methane

UNUSUAL FIRE AND EXPLOSION HAZARDS:

(Define specific hazards arising from the chemical e.g., nature of any hazardous combustion products)

Associated gases such as methane and hydrogen sulfide may cause fire and explosion hazards

HAZARDOUS DECOMPOSITION PRODUCTS: Sewer gas (hydrogen sulfide, methane, etc.) may result from decomposition

FLAMMABLE LIMITS IN AIR (% by volume): Not flammable

UPPER LIMIT:

LOWER LIMIT:

FLASH POINT: Not flammable

F:

C:

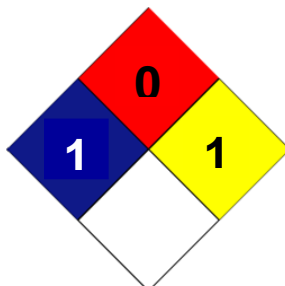
METHOD USED: N/A

AUTOIGNITION TEMPERATURE: Not flammable

F:

C:

NFPA HAZARD CLASSIFICATION:



HEALTH=1
FLAMMABILITY=0
REACTIVITY=1
OTHER=N/A

HMIS HAZARD CLASSIFICATION (0-4 scale):

Sanitary Sewer Waste Water	
HEALTH	1
FLAMMABILITY	0

1

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PHYSICAL HAZARD

PERSONAL PROTECTION

Safety glasses and gloves

SECTION 5 NOTES: None Available

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Avoid becoming contaminated with sewage; avoid breathing in sewage dust or spray; do not touch your face or smoke, eat or drink, unless you have washed your hands and face thoroughly with soap and water; clean all exposed wounds, however small, and cover with a sterile waterproof dressing; change out of contaminated clothing before eating, drinking or smoking; if you suffer from a skin problem, seek medical advice before working with sewage; clean contaminated equipment on site; do not take contaminated clothing home for washing.

ENVIRONMENTAL PRECAUTIONS: Keep other contaminants away from sewers

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: In all conditions: Clearly mark the contaminated area; Wear appropriate PPEs; Keep children and interested bystanders away from cleanup activities; Only experienced people can use hydrated lime; Do not mix cleaning/disinfecting chemicals. In non-freezing conditions: If the spilled material can't be recovered using hand tools, a commercial vacuum/pump truck should be called to remove all visible liquid and solid material; When the area is visibly clean, either a chlorine/water solution or hydrated lime should be applied to the spill area to disinfect; If the spill occurred in a heavily populated area and odor may be an issue or within 100 feet of surface water, hydrated lime should be applied to the area in place of chlorine bleach. Enough hydrated lime should be applied to raise the pH to at least 12. After the spill area has been cleaned, the barriers may be removed and access to the area restored. In freezing or frozen conditions: Clean up the spill as much as possible before it becomes completely frozen; If possible, the frozen sewage should be removed down to the natural ground surface and the recovered material disposed of properly. This could require that approval be obtained from the local government for disposal in a permitted landfill. An acceptable alternative solution is to stock pile the frozen sewage in an approved lined containment area until conditions are more favorable for transport and disposal. When the area is visibly clean, either a chlorine/water solution or hydrated lime should be spread across the spill area to disinfect. If the spill occurred in a heavily populated area and odor may be an issue or within 100 feet of surface water, hydrated lime should be applied to the spill area in place of chlorine bleach. The hydrated lime will raise the pH to 12, which will disinfect the area. The area will be disinfected by raising the pH to 12 for at least 1 hour. When the spill area has been cleaned, the barriers can be removed and access to the area restored.

SECTION 6 NOTES: None Available

SECTION 7: HANDLING AND STORAGE

PRECAUTION FOR SAFE HANDLING: Wear appropriate PPEs when handling waste water

CONDITIONS FOR SAFE STORAGE (any incompatibilities): Sewer water should not be stored due to possible sewer gas buildup. Remove to septic system or waste water treatment plant

SECTION 7 NOTES: None Available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS/GUIDELINES:

INGREDIENTS	ACGIH	NIOSH	OSHA-FINAL PELs
Water	N/A	N/A	N/A

ENGINEERING CONTROLS:

VENTILATION: Use local exhaust to prevent accumulation of high concentrations of sewer gases that may accompany sewer waste water

PERSONAL PROTECTIVE EQUIPMENT (PPE):

EYE PROTECTION: Safety goggles or glasses as appropriate for the job

SKIN PROTECTION: Protective gloves of any material appropriate for the job



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RESPIRATORY PROTECTION: Positive pressure air line with full-face mask and escape bottle or self-contained breathing apparatus should be available for emergency use in case of gas buildup

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Safety shoes

SECTION 8 NOTES: None Available

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: May be a clear, gray, or dark color

PHYSICAL STATE: Liquid

COLOR: clear, gray, or dark

ODOR: Pungent, offensive odor. May have rotten eggs smell if H₂S is present

pH AS SUPPLIED: Variable, usually 6-8

pH (Other):

FREEZING POINT:

F: 32.0°F

C: 0°C

BOILING POINT:

F: 212.0°F

C: 100.0°C

MELTING POINT: N/A

F:

C:

FLASH POINT: N/A

F:

C:

EVAPORATION RATE (BASIS=1): N/A

FLAMMABILITY (by %volume): N/A

UPPER FLAMMABILITY LIMIT:

LOWER FLAMMABILITY LIMIT:

VAPOR PRESSURE (mmHg): N/A

@

F:

C:

VAPOR DENSITY (AIR = 1): 1

@

F:

C:

SOLUBILITY IN WATER: Completely soluble

PARTITION COEFFICIENT n-octanol/water: N/A

AUTO-IGNITION TEMPERATURE: N/A

F:

C:

DECOMPOSITION TEMPERATURE: N/A

F:

C:

SPECIFIC GRAVITY (H₂O = 1): 1

@

F:



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C:

PERCENT SOLIDS BY WEIGHT: N/A

PERCENT VOLATILE: N/A
BY WT/BY VOL @
F:
C:

VOLATILE ORGANIC COMPOUNDS (VOC): VOCs may be present in trace amounts
WITH WATER: LBS/GAL
WITHOUT WATER: LBS/GAL

MOLECULAR WEIGHT: N/A

VISCOSITY: N/A
@
F:
C:

SECTION 9 NOTES: None Available

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: N/A

STABILITY: Stable

CONDITIONS TO AVOID (STABILITY): N/A

POSSIBILITY OF HAZARDOUS REACTIONS: N/A

INCOMPATIBILITY MATERIAL: Strong reducing agents, acid chlorides, phosphorous trichloride, phosphorous pentachloride, and phosphorous oxychloride

HAZARDOUS DECOMPOSITION PRODUCTS: N/A

SECTION 10 NOTES: None Available

SECTION 11: TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: Sewer water may contain water-borne pathogens that could cause ear infections, dysentery, typhoid fever, viral and bacterial gastroenteritis, and hepatitis A.

ROUTES OF EXPOSURE: Skin contact, eye contact, inhalation, and ingestion

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

CONTACT WITH EYES: Exposure may cause irritation

CONTACT WITH SKIN: No adverse effects anticipated

INHALATION: Sewer gas often has a "rotten egg" smell due to the hydrogen sulfide content, which can be detected by human olfactory senses in concentrations as low as parts per billion. Exposure to low levels of this chemical can irritate the eyes, cause a cough or sore throat, shortness of breath, and fluid accumulation in the lungs. Prolonged low-level exposure may cause fatigue, pneumonia, loss of appetite, headaches, irritability, poor memory, and dizziness. High concentrations of hydrogen sulfides (>150 ppm) can produce olfactory fatigue, whereby the scent become undetectable. At very high concentrations (>300 ppm), hydrogen sulfide can cause loss of consciousness and death.

INGESTION: Illness from the presence of pathogens, including ear infections, dysentery, typhoid fever, viral and bacterial gastroenteritis, and hepatitis A.

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

ACUTE HEALTH HAZARDS: High concentrations of certain sewer gases, such as hydrogen sulfide, can cause loss of consciousness and death

CHRONIC HEALTH HAZARDS: Ear infections, dysentery, typhoid fever, viral and bacterial gastroenteritis, and hepatitis A



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NUMERICAL MEASURES OF TOXICITY:

LD50/LC50: No data available

IRRITATION DATA: No data available

CARCINOGENICITY: No data available

EPIDEMIOLOGY: No data available

TERATOGENICITY: No data available

REPRODUCTIVE EFFECTS: No data available

NEUROTOXICITY: No data available

MUTAGENICITY: No data available

OTHER: No data available

SECTION 11 NOTES: None Available

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY (AQUATIC AND TERRESTRIAL, WHERE AVAILABLE): If sewer water flows into natural water body, the high concentration of BOD will consume oxygen in the water and result in death of aquatic life.

PERSISTENCE AND DEGRADABILITY: Organics in sewer water are expected to be biodegradable. Some chemicals are more persistent.

BIOACCUMULATIVE POTENTIAL: some chemicals in sewer water may have very high bio-accumulative potential.

MOBILITY IN SOIL: mobile

OTHER ADVERSE EFFECTS: Cause aesthetic problems

SECTION 12 NOTES: None Available

SECTION 13: DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Flush area with water to reduce associated gas vapors in case of spill or accidental release. Gas should dissipate in air. Remove liquids to septic systems or waste water treatment facilities

RCRA HAZARD CLASS: N/A

DESCRIPTION OF WASTE RESIDUES AND INFORMATION ON THEIR SAFE HANDLING AND METHODS OF DISPOSAL, INCLUDING ANY CONTAMINATED PACKAGING: N/A

SECTION 13 NOTES: None Available

SECTION 14: TRANSPORT INFORMATION

U.N. GHS TRANSPORT REQUIREMENT

UN NUMBER: N/A

PROPER SHIPPING NAME: N/A

TRANSPORT HAZARD CLASS: N/A

PACKING GROUP: N/A

LABEL STATEMENT: N/A

MARINE POLLUTANT: N/A

SPECIAL PRECAUTIONS FOR USER: N/A

SECTION 14 NOTES: None Available

SECTION 15: REGULATORY INFORMATION



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U.S. FEDERAL REGULATIONS

TOXIC SUBSTANCE CONTROL ACT (TSCA): N/A

OCCUPATIONAL, SAFETY AND HEALTH ADMINISTRATION (OSHA): N/A

COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT (CERCLA): N/A

CLEAN WATER ACT (CWA): The CWA provides funding and controls for publicly owned sewage treatment works (POTWs); regulates discharges of pollutants into navigable waters through the National Pollution Discharge Elimination System (NPDES); and provides for regulation of nonpoint sources of pollution (i.e., storm water runoff).

CLEAN AIR ACT (CAA): N/A

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT (SARA) TITLE III INFORMATION:

SARA SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES: N/A

SARA SECTION 311/312 (40 CFR 370) HAZARD CATEGORIES: N/A

SARA 313 REPORTABLE INGREDIENTS: N/A

STATE REGULATIONS: N/A

INTERNATIONAL REGULATIONS: N/A

SECTION 15 NOTES: None Available

SECTION 16: OTHER INFORMATION

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Green Plains Inc. be liable for any claims, losses or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Green Plains Inc. has been advised of the possibility of such damages.

REFERENCES:

GHS Annex II
GHS SDS Instruction

ACRONYMS/ABBREVIATIONS:

ACGIH-American Conference of Governmental Industrial Hygienists
CAA-Clean Air Act
CAS-Chemical Abstracts Service
CERCLA-Comprehensive Response Compensation and Liability Act
CHEMTREC-It serves as a round-the-clock resource for obtaining immediate response information for incidents involving hazardous material and dangerous goods.
CWA-Clean Water Act
EC-European Commission
GHS-Globally Harmonized System of Classification and Labeling of Chemicals
IARC-International Agency for the Research on Cancer
ICSC-International Chemical Safety Cards
LC50-The concentration of a chemical in air or of a chemical in water which causes the death of 50% of a group of test animals.
LD50-The amount of a chemical, given all at once, which causes the death of 50% of a group of test animals.
NIOSH-The National Institute for Occupational Safety and Health
NTP-National Toxicology Program
OSHA-Occupational Safety and Health Administration
RCRA-Resource Conservation and Recovery Act
RQ-Reportable Quantity
SARA-Superfund Amendments and Reauthorization Act
STOST-SE-Specific Target Organ Toxicity Single Exposure
TPQ-Threshold Planning Quantity
TSCA-Toxic Substance Control Act
U.N.-United Nation
UNCED-United Nations Conference on Environment and Development
VOL-Volume
WT-Weight



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