

SECTION I – IDENTIFICATION

<u>GHS PRODUCT IDENTIFIER</u>	2807.000.00
<u>TRADE NAME AND SYNONYMS</u>	ROADBOND EN 1™ (Roadbond, EN 1)
<u>CHEMICAL PRODUCT TYPE</u>	Soil Stabilizer
<u>MANUFACTURER'S NAME</u>	C.S.S. Technology, Inc.
<u>ADDRESS</u>	P.O. Box 549 6413 Hill City Highway Tolar, Texas 76476 800-305-6190
<u>EMERGENCY TELEPHONE</u>	Chemtrec National 1-800-424-9300 (Contract #CCN3572) International 1-703-527-3887

SECTION II – HAZARD IDENTIFICATION

<u>GHS CLASSIFICATION</u>	2807.000.00 Corrosive
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May evolve Sulfur Dioxide vapors on boiling
Causes severe burns.

SECTION III – COMPOSITION HAZARDOUS INGREDIENTS

<u>CHEMICAL NAME:</u>	Sulphuric Acid
<u>EU INDEX NO.:</u>	016-020-00-8
<u>EEC (EINECS) NO.:</u>	231-639-5
<u>CASE NO.:</u>	7664-93-9
<u>COMPOSITION COMMENTS:</u>	>50% Sulphuric Acid

* All ingredients are proprietary, all are listed on the TSCA inventory list.

SECTION IV – FIRST AID MEASURES

GENERAL: IN ALL CASES OF DOUBT OR WHEN SYMPTOMS PERSIST, ALWAYS SEEK MEDICAL ATTENTION.

INHALATION: Move victim to fresh air, lay him down with legs raised, loosen collar and belt, and cover with a blanket. If breathing is difficult, give oxygen administered by a trained respiration and then administer oxygen. Get medical attention.

INGESTION: If swallowed - DO NOT INDUCE VOMITING. Give cold water or ice to rinse mouth with. Give milk of magnesia, milk, or egg whites. If vomiting does occur, give fluids again. Keep victim warm and quiet. Get immediate medical attention. Do not give anything by mouth to an unconscious person.

SKIN: Remove contaminated clothing immediately and flush affected area with water for at least fifteen minutes. If pain or irritation persists, get medical attention. Launder clothing before reusing.

EYES: Immediately flush eyes with running water for at least fifteen minutes. If pain and/or irritation persists, get medical attention.

SECTION V – FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Normally nonflammable. Use extinguishing media suitable against surrounding fire or the cause of the fire.

SPECIAL FIRE FIGHTING PROCEDURES: Unsuitable extinguishing media – Do not use water.

HAZARDOUS COMBUSTION PRODUCTS: Toxic or corrosive vapors may be released in fire situation.

PROTECTIVE MEASURES IN FIRE: Fire fighters should wear self-contained breathing apparatus.

SECTION VI – ACCIDENTAL RELEASE MEASURES:

PERSONAL PRECAUTION IN SPILL: Stop leaks and contain spill. Avoid direct contact with skin, eyes and clothing. Wear appropriate protective clothing.

ENVIRONMENTAL PRECAUTIONS: Prevent contamination of soil, drains and surface water.

SPILL CLEANUP METHODS: Reclaim if possible. Dilute spill with large amounts of water then neutralize with soda ash or lime. Dispose in accordance with state and federal regulations. After all visible traces have been removed, flush area with large amounts of water.

SECTION VII – HANDLING AND STORAGE

USAGE PRECAUTIONS: HANDLING – Product should be used in accordance with good industrial principles for handling and storage of hazardous chemicals. Never add water to this product, react violently with evolution of heat. Avoid contact with strong alkalis or reactive metals. Wear safety equipment and provide a water source to rinse spills and splashes.

SAFE STORAGE: Store product in original container in covered storage that is well ventilated with adequate protection from theft, flooding or damage.

SECTION VIII – EXPOSURE CONTROLS AND PERSONAL PROTECTION

<u>INGREDIENT NAME:</u>	CAS No.:	STD:	LT EXP 8 Hrs	ST EXP 15 Min
SULFURIC ACID	7664-93-9	OES	1 mg/m3	

VENTILATION: Work in well-ventilated area. Respiratory protection required in insufficiently ventilated working areas.

RESPIRATORS: For short periods of work, a suitable RPE fitted with a combination E1 filter cartridge is recommended.

PROTECTIVE GLOVES: Use impervious gloves.

EYE PROTECTION: Where the potential for eye contact exists, splash-proof goggles or face shield must be worn.

OTHER PROTECTIONS: Wear protective clothing and closed footwear. Apron. Wear personal protective equipment appropriate to the quantity of material handled.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE AND ODOR: Dark amber liquid, sharp sulfurous smell.

DENSITY/SPECIFIC GRAVITY (h20=1): 1.70

pH VALUE SOLUTION: 1.0

FREEZING POINT: -56 C°

BOILING POINT: 182 C°

SOLUBILITY DESCRIPTION: Completely soluble in water. Wetting ability excellent.

FLASH POINT: 17 C°

VAPOR PRESSURE: 0.001

BOILING POINT: 182 degrees C

COLD STABILITY: Excellent

SECTION X – STABILITY AND REACTIVITY

STABILITY: Stable under normal conditions of use.

CONDITIONS TO AVOID: Store away from reactive materials.

MATERIALS TO AVOID: Alkalis, bases and oxidizing agents. Most common metals, halogen compounds, nitrates, permanganates, combustible materials.

HAZARDOUS DECOMP. PRODUCTS: Thermal decomposition may release noxious, toxic or corrosive gases or vapors.

SECTION XI – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA: LC50. Inhalation. Rat. 0.51 mg/l (aerosol or mist).

TOXIC DOSE: 900 MG/KG (ORAL-RBT).

TOXICOLOGICAL INFORMATION: The European Sulphuric Acid Association suggest exposure levels should be reduced as far as possible and certainly below 0.3 mg/m3, based on epidemiological evidence of irritant effects of sulphuric acid mist.

INHALATION: Inhalation of mist or vapor will cause irritation of the upper respiratory tract, high concentrations may cause damage to mucous membranes and lungs.

INGESTION: May cause burns to mucous membranes, throat and stomach. May cause severe internal injury.

SKIN: Liquid causes severe irritation and burns on prolonged contact.

EYES: Liquid causes severe burns. Risk of serious damage to eye.

MEDICAL SYMPTOMS: Irritation of eyes and mucous membranes. Burning sensation in mouth. Severe skin irritation. Liquid irritates mucous membranes and may cause abdominal pain if swallowed.

SECTION XII – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: When diluted with water, non-corrosive.

BIO ACCUMULATION: Not expected to bio-accumulate.

DEGRADABILITY: Neutralized by natural alkalinity.

ACUTE FISH TOXICITY: No toxic effects to fish species or water quality changes to the surface waters that may be

subjected to runoff.

SECTION XIII – DISPOSAL CONSIDERATION

DISPOSAL METHODS: This material may be disposed of by adding large amounts of water to the product to dilute to a minimum of 250:1. Container must be rinsed out three times with clean water, then can be disposed according to local, state and federal laws.

SECTION XVI – TRANSPORT INFORMATION

UN NUMBER: UN1830
UN PROPER SHIPPING NAME: Sulphuric Acid With More Than 51% Acid
CLASS: 8, Corrosive
GROUP: II
HAZARD No.: 80 Corrosive or slightly corrosive substance

SECTION XV – REGULATORY INFORMATION

LABEL FOR SUPPLY:



RISK PHRASES: Causes burns.

SAFETY PHRASES: Contact with eyes, flush eyes with running water for at least fifteen minutes, if pain and/or irritation persists, get medical attention. Contact with skin, remove contaminated clothing immediately and flush affected area with water for at least fifteen minutes, if pain and/or irritation persists, get medical attention. Launder clothing before reusing. Inhalation, move to fresh air, lay down with legs raised, loosen collar and belt, cover with a blanket, if breathing is difficult, seek medical attention and give oxygen administered by a trained administer. Ingestion, DO NOT INDUCE VOMITING, give cold water or ice to rinse mouth, give milk of magnesia, milk or egg whites, if vomiting does occur, give fluids again, keep warm and quiet, get immediate medical attention. Do not give anything by mouth to an unconscious person.

SECTION XVI – OTHER INFORMATION

INFORMATION SOURCES: This product has been classified in accordance with regulations.

REVISION COMMENTS: 2014 Revision of MSDS.

ISSUED BY: C.S.S. Technology, Inc.

SDS No.: 1

DATE: January 27, 2014

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