

MATERIAL SAFETY DATA SHEET

Product Name : 656 I

Date Issued : 1/17/12

SECTION 1 : PRODUCT AND COMPANY IDENTIFICATION

Product Name: 656
Formula : Multi-component mixture

Chemical Synonym / C# : c656
Chemical Family: Strong acid

Supplier : Specialty Chemicals Inc. 208 Widedon Landing Hilton, NY 14468

Information Telephone : (585)752-2320

Emergency Telephone : (607)529-3218

SECTION 2 : COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous Ingredient(s)	CAS #	% (w/w)	ACGIH TLV (mg/m3)	
			TWA	STEL
Sulfuric Acid	7664-93-9	< 25.0	1 *	3 *(strong inorganic acid mists)

Unlisted components are considered non-hazardous as per 29CFR1910.1200g2C. See section 15 for specific state right-to-know information if applicable.

SECTION 3 : HAZARD IDENTIFICATION

Emergency Overview : DANGER! Extremely corrosive. Causes severe burns. Reacts violently with water. Concentrated Sulfuric Acid will react with many organic materials and may cause fire due to the heat of the reaction. Not flammable, but reacts with most metals to form explosive hydrogen gas. Read the entire MSDS for a more thorough evaluation of the hazards.

POTENTIAL HEALTH EFFECTS:

Eye Contact: Can cause permanent eye injury. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure the cornea and cause blindness.

Skin Contact: Can cause permanent skin damage. Symptoms may include redness, burning, and swelling of skin, burns, and other skin damage.

Ingestion: Swallowing this material may be harmful or fatal. Symptoms may include severe stomach and intestinal irritation (nausea, vomiting, diarrhea), abdominal pain, and vomiting of blood. Swallowing this material may cause burns and destroy tissue in the mouth, throat, and digestive tract. Low blood pressure and shock may occur as a result of severe tissue injury.

Inhalation: Breathing of vapor or mist is possible. Breathing this material may be harmful or fatal. Symptoms may include severe irritation and burns to the nose, throat, and respiratory tract.

SECTION 4 : FIRST AID MEASURES

General:

Eye Contact: If material gets into eyes, immediately flush eyes gently with water for at least 15 minutes while holding eyelids apart. If symptoms develop as a result of vapor exposure, immediately move individual away from exposure and into fresh air before flushing as recommended above. Seek immediate medical attention.

Skin Contact: Remove contaminated clothing. Flush exposed area with large amounts of water. If skin is damaged, seek immediate medical attention. If skin is not damaged and symptoms persist, seek medical attention. Launder clothing before reuse.

Ingestion: Seek immediate medical attention. Do not induce vomiting. Vomiting will cause further damage to the mouth and throat. If individual is conscious and alert, immediately rinse mouth with water and give milk or water to drink. If possible, do not leave individual unattended.

Inhalation: If symptoms develop, immediately remove individual away from exposure and into fresh air. Seek immediate medical attention; keep person warm and quiet. If person is not breathing, begin artificial respiration. If breathing is difficult, administer oxygen.

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Note to Physicians : Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material : skin, lung (for example, asthma-like conditions).

SECTION 5 : FIRE FIGHTING MEASURES

Flash Point : N/A **Method Used:** N/A **Flammable Limits:** LEL = N/A UEL = N/A

Extinguishing Media: Dry chemical.

Fire Fighting Procedures: Water may be used to keep fire-exposed containers cool until fire is out. Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

Unusual Fire and Explosion Hazards: Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Steps to be taken in case material is released or spilled:

Small Spill: Cover the contaminated surface with sodium bicarbonate or soda ash / flaked lime mixture (50:50). Mix and add water if necessary to form a slurry. Scoop up slurry and wash site with soda ash solution. Proper mixing procedures are essential. Trained personnel should conduct this procedure. Untrained personnel should be removed from the spill area.

Large Spill: Persons not wearing protective equipment should be excluded from area of spill until clean-up is completed. Stop spill at source. Dike to prevent spreading. Pump to salvage tank.

SECTION 7 : HANDLING AND STORAGE

Handling: Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in data sheet must be observed. Addition to water releases heat which can result in violent boiling and spattering. Always add slowly and in small amounts. Never use hot water. Never add water to acids. Always add acids to water.

SECTION 8 : EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: If workplace exposure limit(s) of product or any component is exceeded (see section 2), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.

Engineering Controls : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).

Skin Protection: Wear resistant gloves (consult your safety equipment supplier). To prevent skin contact, wear impervious clothing and boots.

Eye Protection: Chemical splash goggles and face shield (8" minimum) in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type safety glasses. (Consult your industrial hygienist).

Exposure Guidelines: See section 2 for ACGIH recommendations for each hazardous ingredient.

SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance / Odor: Off-white, clear liquid, acidic odor.

Water Solubility: Complete

Specific Gravity: 1.19 **Boiling Point (°F):** 212+

% volatile: N/A

Vapor Density (air=1): N/A

pH (1%): < 1.0

Evaporation Rate(water=1): N/A

Vapor Pressure(mmHg): N/A

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SECTION 10 : STABILITY AND REACTIVITY

Hazardous Decomposition Products: May form acid vapors.

Chemical Stability: Stable.

Incompatibility with other Substances: Vigorous reactions with water; alkaline solutions; metals, metal powder; carbides; chlorates; fuminates; nitrates; picrates; strong oxidizing, reducing, or combustible organic materials. Acid reacts with most metals to release hydrogen gas which can form explosive mixtures with air.

Hazardous Polymerization: Will not occur.

SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicological Data: Toxicological studies were not performed on the blended product, although it is considered to be corrosive to the eyes and skin, due to its acidity.

Toxicological Data (as Sulfuric Acid) :

LD50 (oral, rat) = 2140 mg/kg

LC50 (inhalation, rat) = 510 mg/m³ for 2 hours

LC50 (inhalation, guinea pigs) = 30 mg/m³ (8 hours)

Skin effects : (rabbit) = severe irritation

Animal testing indicates Sulfuric Acid is a slight skin irritant when tested as a 10% solution.

Eye effects (rabbit) = severe irritation

Animal testing indicates Sulfuric Acid is a moderate eye irritant when tested as a 10% solution.

Carcinogenicity: This product contains **Sulfuric Acid**. The International Agency for Research on Cancer (IARC) and the National Toxicology Program (NTP) have listed strong-inorganic-mists containing Sulfuric Acid as causing cancer in humans.

SECTION 12 : ECOLOGICAL INFORMATION

Exotoxic Effects (as Sulfuric Acid) : Harmful to aquatic life in very low concentrations. May be dangerous if enters water intake; Fish toxicity critical concentration = 10 mg/l; 7.34 mg/l/48 hours - Lymnaea Palustris - 0-100% mortality.

96 hour LC50 (bluegill sunfish) = 10,5 ppm

48 hour TLM (flounder) = 100 - 300 ppm

SECTION 13 : DISPOSAL CONSIDERATIONS

Waste Disposal Method: Cleaned-up material may be an RCRA Hazardous Waste on disposal due to the corrosivity characteristic. Do not flush to surface water or sanitary sewer system. Dispose of in accordance with all applicable local, state and federal regulations. If approved, neutralize and transfer to waste treatment system.

Is the unused product a RCRA hazardous waste (40CFR261.33) if discarded? Yes
If yes, the RCRA ID number is : D002 (see 40CFR261.23 if applicable).

SECTION 14 : TRANSPORTATION INFORMATION

Transportation Emergency Telephone Number: 3E 24 hour number : (866)302-6855*

*Please refer to c# referenced in section 1 of this msds.

DOT Proper Shipping Name: Sulfuric Acid *with not more than 51% acid*

DOT Hazard Class / Product Identification Number / Packing Group / DOT Label:
8, UN2796, II

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SECTION 15 : REGULATORY INFORMATION

US FEDERAL REGULATIONS :

TSCA (Toxic Substances Control Act) Status : TSCA (United States) The intentional ingredients of this product are listed.

CERCLA RQ - 40 CFR 302.4(a) :

<u>Component</u>	<u>RQ (lbs)</u>
Sulfuric Acid	1000

SARA 302 Components - 40 CFR 355 Appendix A

<u>Section 302 Component(s)</u>	<u>TPQ (lbs)</u>	<u>RQ (lbs)</u>
Sulfuric Acid	1000	1000

SARA 311/312 Classification - 40 CFR 370.2 :

(as Sulfuric Acid) : Acute (Immediate) Health, Chronic (Delayed) Health, Reactivity

SARA 313 Components - 40 CFR 372.65:

<u>Section 313 Component(s)</u>	<u>CAS #</u>	<u>%</u>
Sulfuric Acid (acid aerosols)	7664-93-9	< 25.0

OSHA Process Safety Management 29CFR 1910 :

<u>Component</u>	<u>Condition</u>	<u>TQ (lbs)</u>
None listed		

EPA Accidental Release Prevention 40 CFR 68 :

<u>RMP Component (s)</u>	<u>Condition</u>	<u>TQ (lbs)</u>
None listed		

INTERNATIONAL REGULATIONS:

Inventory Status (as Sulfuric Acid):

Sulfuric Acid is on the following lists : Canadian Domestic Substance List (DSL), Canadian WHMIS (Class D1A - Very Toxic, Class E - Corrosive).

STATE AND LOCAL REGULATIONS:

California Safe Drinking Water Act (Prop. 65) Listing : None listed.

State Right-To-Know :

Sulfuric Acid, CAS# 7664-93-9, is on the following lists : New Jersey Right-to-Know Label Information, Pennsylvania Right-to-Know Label Information.

SECTION 16 : OTHER INFORMATION

NFPA Rating : HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 2
NFPA hazard degree designation 704: 4 = extreme, 3 = high, 2 = moderate, 1 = slight, 0 = none.

Information and data compiled to compose this MSDS is correct to the best of our knowledge as of the printed date, and is offered solely for your consideration, investigation, and verification.