

1. PRODUCT IDENTIFICATION

1.1. PRODUCT IDENTIFIERS:

Product Catalog Number:

F006

Product Description:

Stop Solution

1.2. RELEVANT IDENTIFIED USES:

Product Use:

Used in ELISA/Western Blot Kit tests.

1.3. DETAILS OF THE SUPPLIER OF THE SDS:

Manufacturer's Name:

Cygnus Technologies, LLC

Address:

4332 Southport Supply Rd SE
Southport, NC 28461 USA

1.4. EMERGENCY TELEPHONE NUMBER:

Emergency Phone:

910-454-9442 (Emergency contact)

Monday-Friday 8:30am-5:00pm

Business Phone:

910-454-9442 (Product information)

2. HAZARD IDENTIFICATION

2.1. CLASSIFICATION OF SUBSTANCE OR MIXTURE:

Classification of the substance of mixture:

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS):

Skin corrosion/irritation (Category 1)

Serious eye damage/irritation (Category 1)

2.2. LABEL ELEMENTS:

GHS Label Elements

Pictogram: Corrosion (GHS05)



Signal Word: Danger

Hazard Statement(s): H314: Causes severe skin burns and eye damage.

Prevention: P260: Do not breathe dust/fume/gas/mist/vapors/spray.

P264: Wash skin thoroughly after handling.

P280: Wear protective gloves/eye protection/face protection.

Response: P301+P330+P331:IF SWALLOWED: rinsed mouth. Do NOT induce vomiting.

P303+P361+P353:IF ON SKIN (or hair):Remove/Take off immediately all contaminated clothing. Rinse SKIN with water/shower.

P363: Wash contaminated clothing before use.

P304+P340:IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P310: Immediately call POISON CENTER or doctor.

P321: Specific treatment (see supplemental first aid instructions on this label)

P305+P351+P338:IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

P405: Store locked up.

Disposal: P501: Dispose of contents/container to an approved waste disposal plant.

2.3. OTHER HAZARDS: No other hazards known.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

3.1. SUBSTANCE: N/A

3.2. MIXTURE:

HAZARDOUS INGREDIENTS:	CAS#	EINECS #	ICSC#	Amount	Hazard Classification	Hazard Code
Sulfuric Acid	7664-93-9	231-639-5	0362	< 3%	Severe skin burns and eye damage	H314
Each of the other components present is nonhazardous or less than the 1 percent concentration cut off limits (0.1% concentration for potential carcinogens, reproductive toxins, respiratory tract sensitizers, and mutagens)					Not Classified	None

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Note: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2004 format. This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard *JIS Z 7250: 2000*. See Section 2 for full text of Ingredient Risk Phrases and Safety Phrases.

4. FIRST-AID MEASURES

4.1. DESCRIPTION OF FIRST AID MEASURES:

General Advice: Seek medical attention. Show SDS

EYE CONTACT: Open victim's eyes while under gentle running water. Use sufficient force to open eyelids. Have victim "roll" eyes, flush for a minimum of 15 minutes. Remove contact lenses, if worn. Seek medical attention if irritation persists.

SKIN CONTACT: Wash contacted area with soap and water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. Seek medical attention if irritation develops and persists.

INHALATION: If breathed in, move victim to fresh air. If not breathing, give artificial respiration. Seek medical attention.

INGESTION: If swallowed, call physician or poison control center for most current information. Do not induce vomiting. Rinse mouth. Take a copy of the label and SDS with the victim to the health professional.

4.2. MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED: See section 2 and/or section 11.

4.3. INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: No data available.

5. FIRE-FIGHTING MEASURES

5.1. EXTINGUISHING MEDIA: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

5.2. SPECIFIC HAZARDS ARISING FROM THE MIXTURE: Carbon oxides, nitrogen oxides, Sulfur oxides, hydrogen chloride gas.

5.3. ADVICE FOR FIREFIGHTERS:

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS: Wear self contained breathing apparatus for firefighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

6.1. PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES: Proper protective equipment should be used. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Personnel should be trained for spill response operations.

6.2. ENVIRONMENTAL PRECAUTIONS: N/A

6.3. METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP: Trained personnel following pre-planned procedures should handle non-incident releases. Absorb spilled material using polypads or other suitable absorbent material. Place all spill residue in an appropriate container and seal. Decontaminate the area thoroughly. Do not mix with wastes from other materials. Dispose of in accordance with applicable Federal, State, and local procedures (see Section 13, Disposal Considerations.)

6.4. REFERENCE TO OTHER SECTIONS: For disposal see section 13.

7. HANDLING AND STORAGE

7.1. PRECAUTIONS FOR SAFE HANDLING: Avoid getting the mixture ON YOU or IN YOU. Wash thoroughly after handling. Do not eat, drink, smoke, or apply cosmetics while using the mixture. Avoid breathing mists or sprays generated by the mixture. Use in a well-ventilated location. Remove contaminated clothing immediately.

7.2. CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: Store product in properly labeled, closed containers. Protect from physical damage. Keep containers closed when not in use. No incompatibilities known.

8. EXPOSURE CONTROLS – PERSONAL PROTECTION

8.1. CONTROL PARAMETERS:

COMPONENTS WITH WORKPLACE CONTROL PARAMETERS

Component	CAS#	Value	Control Parameters	Basis
Sulfuric Acid	7664-93-9	TWA	0.2 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
		TWA	1 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants-- 1910.1000
		TWA	1 mg/m3	USA. Occupational Exposure Limits (OSHA)- Table Z-1 Limits for Air Contaminants

DERIVED NO EFFECT LEVEL (DNEL)

Application Area	Exposure Routes	Health Effect	Value
Workers	Inhalation	Acute local effects	0.1 mg/m3
Workers	Inhalation	Long-term local effects	0.05 mg/m3

PREDICTED NO EFFECT CONCENTRATION (PNEC)

Compartment	Value
Marine Water	0.00025 mg/l
Fresh Water	0.0025 mg/l
Marine Sediment	0.002 mg/kg
Fresh Water Sediment	0.002 mg/kg
Onsite Sewage Treatment Plant	8.8 mg/l

8.2. EXPOSURE CONTROLS:

8.2.1. APPROPRIATE ENGINEERING CONTROLS: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the workday. Use with adequate ventilation to ensure exposure levels are maintained below the established limits.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection,) and those of Japan. Please reference applicable regulations and standards for relevant details.

8.2.2. PERSONAL PROTECTION EQUIPMENT:

RESPIRATORY PROTECTION: Use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134,) equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Tightly fitting safety goggles or safety glasses with side shields recommended. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

SKIN PROTECTION: Compatible protective gloves recommended. Use proper glove removal technique and ensure outside of glove is not touched. Wash hands after removing gloves. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

BODY PROTECTION: Use body protection appropriate for task. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. described in U.S. OSHA 29 CFR 1910.136.

8.2.3. ENVIRONMENTAL EXPOSURE CONTROLS: N/A

9. PHYSICAL and CHEMICAL PROPERTIES

9.1. INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES:

APPEARANCE/COLOR:	Clear liquid	ODOR:	No data available
ODOR THRESHOLD:	No data available	PH:	No data available
MELTING POINT/FREEZING POINT:	No data available	INITIAL BOILING POINT/RANGE:	No data available
FLASH POINT:	No data available	EVAPORATION RATE (n-BuAc+1):	No data available
FLAMMABILITY (SOLID/GAS):	No data available	UPPER/LOWER FLAMMABILITY/EXPLOSOVE LIMITS:	No data available
VAPOR PRESSURE:	No data available	VAPOR DENSITY:	No data available
RELATIVE DENSITY:	No data available	WATER SOLUBILITY:	Soluble

PARTITION COEFFICIENT:n-octanol/water: No data available **AUTO-IGNITION TEMPERATURE:** No data available
DECOMPOSITION TEMPERATURE: No data available **VISCOSITY:** No data available
EXPLOSIVE PROPERTIES: No data available **OXIDIZING PROPERTIES:** No data available
9.2. OTHER SAFETY INFORMATION: No data available

10. STABILITY AND REACTIVITY

10.1. REACTIVITY: No data available.
10.2. CHEMICAL STABILITY: Stable under recommended storage conditions.
10.3. POSSIBLE OF HAZARDOUS REACTIONS: No data available.
10.4. CONDITIONS TO AVOID: Extreme temperatures and direct sunlight.
10.5. INCOMPATIBLE MATERIALS: Bases. Halides. Organic materials. Finely powdered metals.
10.6. HAZARDOUS DECOMPOSITION PRODUCTS: Sulfur oxides.

11. TOXICOLOGICAL INFORMATION

11.1. INFORMATION ON LIKELY ROUTES OF EXPOSURE: See Section 4
SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS: See Section 4.
DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE:
Irritancy of product: None known.
Sensitization to the product: This product is not known to cause human skin or respiratory sensitization.
Reproductive toxicity information: Listed below is information concerning the effects of this product and its components on the human reproductive system.
Mutagenicity – The components of this product are not reported to produce mutagenic effects in humans.
Embryotoxicity – The components of this product are not reported to produce embryotoxic effects in humans.
Teratogenicity – The components of this product are not reported to produce teratogenic effects in humans.
Reproductive Toxicity – The components of this kit are not reported to produce reproductive effects in humans.
NUMERICAL MEASURES OF TOXICITY: None known
CARCINOGENICITY
NTP Regulated – No
IARC Regulated – No
OSHA Regulated – No
ACGIH Regulated – No

12. ECOLOGICAL INFORMATION

12.1. TOXICITY: No data available.
12.2. PERSISTENCE AND DEGRADABILITY: No data available.
12.3. BIOACCUMULATIVE POTENTIAL: No data available.
12.4. MOBILITY IN SOIL: No data available.
12.5. OTHER ADVERSE EFFECTS: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

13.1. PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Members States and Japan.

14. TRANSPORTATION INFORMATION

14.1. US DOT, IATA, IMO, ADR:
DOT Classification
UN Number:2796 Class 8 Packing Group: II
Proper Shipping Name: Sulfuric acid
IATA Labeling Requirements
UN Number:2796 Class 8 Packing Group: II
Proper Shipping Name: Sulfuric acid

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS: This product is not classified as dangerous goods, per U.S. DOT regulations, under 49 CFR 172.101.

TRANSPORT CANADA, TRANSPORTATION OF DANGEROUS GOODS REGULATIONS: This product is not classified as Dangerous Goods, per regulations of Transport Canada.

INTERNATIONAL AIR TRANSPORT ASSOCIATION (IATA): This product is not classified as Dangerous Goods, by rules of IATA.

INTERNATIONAL MARITIME ORGANIZATION (IMO) DESIGNATION: This product is not classified as Dangerous Goods by the International Maritime Organization.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is not classified by the United Nations Economic Commission for Europe to be dangerous goods.

15. REGULATORY INFORMATION

15.1. International Inventories

TSCA Complies

DSL/NDSL Complies

EINECS/ELINCS Complies

ENCS Does not Comply

IECSC Complies

KECL Complies

PICCS Complies

AICS Complies

UNITED STATES REGULATIONS:

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:

Component	SARA 313 - Threshold Values%
Sulfuric acid 7664-93-9 (<3)	1.0

SARA 311/312: Acute health: Yes; Chronic health: Yes; Fire: No; Reactivity: No

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	Reportable Quantities	Toxic Pollutants	Priority Pollutants	Hazardous Substances
Sulfuric acid 7664-93-9	1000 lb	-	-	X

U.S. CERCLA REPORTABLE QUANTITY (RQ): 1000lbs

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 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

CANADIAN REGULATIONS:

CANADIAN DSL/NDL INVENTORY STATUS: All of the components of this product are on the DSL Inventory or exempt.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS: No component of this product is on the CEPA First Priorities Substance Lists.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: E Corrosive material D2A Very toxic materials



EUROPEAN ECONOMIC COMMUNITY INFORMATION:

EU DANGEROUS PREPARATIONS DIRECTIVE (DPD) LABELING AND CLASSIFICATION: This product does not meet the definition of any hazard class, as defined by the European Union Council Directives 67/548/EEC and 1999/445/EC and subsequent Directives. For information on classification under CLP Regulation (EC) 1271/2008, please refer to section 16 (Other Information.)

Classification – None. **Risk Phrases** –None.

Safety Phrases – S24/25: Avoid contact with skin and eyes. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/37/39: Wear suitable protective clothing, gloves and eye/face protection.

16. OTHER INFORMATION

Full text of H Statements referred to under sections 2 and 3
H314 Causes severe skin burns and eye damage.

Prepared By: Yvonne Fenrich
Date: 26OCT2018

All chemicals may pose unknown hazards and should be used with cautions. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, *Cygnus Technologies, LLC* assumes no responsibility for the completeness or accuracy of the information contained herein. Users should consider these data only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials and the safety and health of employees and customers and protection of the environment.

End of SDS Sheet