



SAFETY DATA SHEET

Stopping Reagent

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: MICRO-PLATE Stopping Reagent (60ml, 1000ml)

GENERAL USE: For use with all MICRO-PLATE Testing devices. The solution is used to stop the reaction between the substrate reagent and the provided sample. Once the reaction is stopped the result can be measured spectrophotometrically.

ORASURE PRODUCT NUMBERS: 61521, 61522

MANUFACTURER

OraSure Technologies, Inc.
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EMERGENCY CONTACT INFORMATION

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CANUTEC: 613-996-6666

COMMENTS: To the best of our knowledge, this Safety Data Sheet conforms to the requirements of the US OSHA 29 CFR 1910.1200, Regulation EC 1907/ 2006 and Canadian Hazardous Products Act.

2. HAZARD IDENTIFICATION

This product should be handled only by qualified personnel trained in laboratory procedures and familiar with their potential hazards. Specific warnings are given in the instructions for use. The absence of a specific warning should not be interpreted as an indication of safety.

NOTE: Handling, storing or shipping of this product should pose no threat to the individual. If no leak or excessive damage is noted there is no recommended Personal Protective Equipment (PPE) required.

GHS Signal Word: DANGER

GHS CLASSIFICATION:

Health	Environmental	Physical
Acute Toxicity – Category 1	None	Corrosive – Category 1

GHS LABEL:

Symbols: Acutely Toxic, Corrosive	
Hazard Statements: H303 May be harmful if swallowed H314 Causes severe skin burns and eye damage H330 Fatal if inhaled H402 Harmful to aquatic	Precautionary Statements: P260 Do not breathe dust/fumes/gas/mist/vapors/spray. P280 Wear protective gloves/protective clothing/eye protection/face protection. P285 In case of inadequate ventilation, wear respiratory protection. P305+351+338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses, if present and easy to do – continue rinsing. P310 Immediately call a POISON CENTER or doctor/physician.

ROUTES OF ENTRY: Inhalation, ingestion and absorption

HMIS Classification: Health = 3, Chronic Health Hazard = 0, Flammability = 0, Physical hazard = 2.

3. COMPOSITION / INFORMATION ON INGREDIENTS

COMMENTS: The following information is furnished for those hazardous constituents that require regulatory control or disclosure at the concentration found in the solution. Note that the information here is often based on data for the chemical raw material (Weight by %, exposure limits, etc.).

Components	CAS Number	Weight %	OSHA TWA:	OSHA STEL:	ACGIH TLV:	ACGIH STEL:
Sulfuric Acid	7664-93-9	5.3-5.5%	1 mg/m ³	N/A	0.2 mg/m ³	N/A
Water	7732-18-5	94.7-94.5%	N/A	N/A	N/A	N/A

4. FIRST AID MEASURES

GENERAL ADVICE: Move out of dangerous area. Consult a physician. Show the safety data sheet to the doctor.

EYES: Flush eyes with copious water for at least 15 minutes. Ensure adequate flushing by separating the eyelids with fingers while flushing with water. Check for and if possible remove contact lenses. OBTAIN MEDICAL ATTENTION.

SKIN: Remove contaminated clothing immediately. Flush/wash the affected area with soap and water for at least 15 minutes. Wash clothing before reuse. Consult a physician if required.

INGESTION: DO NOT induce vomiting. Rinse mouth with water. OBTAIN MEDICAL ATTENTION IMMEDIATELY.

INHALATION: Remove person from exposure area to fresh air. Treat apparent signs and symptoms: if not breathing give artificial respiration; if breathing is difficult give oxygen. Obtain Medical Attention.

5 FIRE FIGHTING MEASURE

EXTINGUISHING AGENT: Use water spray, Alcohol resistant Aqueous Film Forming Foam, dry chemical or Carbon Dioxide.

FIRE FIGHTING PROCEDURES: Conventional firefighting full protective equipment (with NIOSH-approved self-contained breathing apparatus) and procedures appropriate for the surrounding fire should be sufficient.

NFPA HAZARD INDEX: Health = 3, Flammability = 0, Reactivity = 2, Special = W.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL/ LEAK: Avoid breathing vapors, mist or gas and ensure adequate ventilation. Evacuate personnel to a safe area.

Secure in an appropriate, labeled, container. Material used to absorb the spill may require hazardous material waste disposal in accordance with all Local, State and Federal regulations. Utilize appropriate Personal Protective Equipment (PPE), including gloves, lab coat or apron and eye/face protection. Do not allow spill to enter sewers, confined spaces, drains or waterways.

LARGE SPILLS: If possible, contain chemical by diking. Secure in an appropriate, labeled, container. Soak up with inert absorbent material and dispose of as "Hazardous Waste". Properly disposal of the material in accordance with all Local, State and Federal regulations. Utilize appropriate Personal Protective Equipment (PPE), including gloves, lab coat or apron and eye/face protection. Do not allow spill to enter sewers, confined spaces, drains or waterways.

NOTE: Do not let product enter drains or water ways.

7. HANDLING AND STORAGE

HANDLING: Avoid breathing in vapors or mist. Take normal measures for preventative fire protection.

STORAGE: Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed. Store all reagents at 2-8°C (35.6 – 46.4°F).

NOTE: Handling and storing of the packaged solution should not pose any threat to the shipper. If the product integrity is in question due to excessive damage, utilize proper safety procedures and handle using appropriate PPE.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Chemical Name	ACGIH	NIOSH	OSHA – Final PEL'S
Sulfuric Acid	0.2 mg/m ³	N/A	1 mg/m ³

VENTILATION: Use adequate general or localized ventilation if required. Respiratory protection is not required under normal use of this product. If respiratory protection is needed, follow the OSHA regulation, 29CFR1910.134. Always use a NIOSH approved respirator when necessary.

EYE PROTECTION: Wear appropriate eye/face protection to prevent eye contact while directly working with the chemical agents. Eye and Face PPE must conform to ANSI Z87.1-2003 (US) or EN 166 (EU) Standards.

PROTECTIVE GLOVES: Wear appropriate protective gloves according to the amount and concentration of the chemical, when working directly with the reagent. Replace torn or punctured gloves promptly.

SKIN AND BODY: Wear appropriate body protection to the amount and concentration for the chemical present at the location to prevent contact. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.

COMMENTS: General chemical/industrial hygiene practices are recommended when working with the product. General ventilation should maintain airborne concentration below the permissible exposure limit. Facilities that are storing, handling or using the reagent should be equipped with and emergency eyewash/shower or appropriate means for proper flushing of the eyes and/or body.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Clear liquid

MOLECULAR WEIGHT: 98.08 g/mol

VAPOR PRESSURE: 1 mmHg @ 145.8°C (294.4°F)

SOLUBILITY: Soluble

MELTING POINT: -3°C (37°F)

pH: > 1

MOLECULAR FORMULA: H₂O₄S

VAPOR DENSITY (Air = 1): 0.7

BOILING POINT: 290°C (554°F)

10. STABILITY AND REACTIVITY

STABLE: The product is known to be stable under normal temperatures, pressures, use and storage conditions.

INCOMPATIBLE MATERIALS: Avoid contact with alkalis, amines, anhydrides, combustibles, organics, oxidizers and powdered metals.

HAZARDOUS DECOMPOSITION PRODUCTS: May emit Sulfur Oxides under normal fire conditions.

11. TOXICOLOGICAL INFORMATION

Test Type	Results
Acute toxicity	Rat, Oral: 2140 mg/kg Rat, Inhalation: 510 mg/m ³ – 2H
Skin corrosion/irritation	Rabbit, Skin: Corrosive and destructive to tissue.
Serious eye damage/eye irritation	Rabbit, eyes: Severe eye irritation.

CARCINOGENICITY: IARC has determined that occupational exposure to strong-inorganic-acid mist containing Sulfuric Acid is carcinogenic to humans (group 1).

SIGNS & SYMPTOMS OF EXPOSURE: Material may be extremely destructive to tissue of the mucus membrane and upper respiratory tract, eyes and skin. Inflammation of contact area, edema and burning sensation may occur. Headaches, nausea, dizziness, cough, pulmonary edema, wheezing and shortness of breath may be delayed.

RTECS Number: WS5600000.

12. ECOLOGICAL INFORMATION

NOTE: As offered, for its intended use, the product is not known to have a negative effect on the environment. The below Ecological information will be provided based on the individual chemicals contained in the product.

ECOTOXICITY:


Fish: *Gambusia Affnis* (Mosquito fish): LC50 = 42 mg/l; 96 h.

13. DISPOSAL CONSIDERATION

DISPOSAL METHOD: Disposal of hazardous wastes, product or packaging must be conducted in accordance with all applicable Local, State and Federal Regulations. This section specifies the general and United States RCRA requirements. Processing, use or contamination of the solution may change waste management requirements and options. Contact the authority having jurisdiction for your area for specific disposal requirements.

14. TRANSPORTATION INFORMATION




DOT/IATA/DGM/TDG/IMO:

	PROPER SHIPPING NAME:	Sulfuric Acid (with not more than 51% acid)
	TECHICAL NAME:	N/A
	PRIMARY HAZARD CLASS/DIVISION:	8
	UN/NA NUMBER:	UN2796
	PACKING GROUP:	II
	LABEL:	Corrosive
	IATA PACKING INSTRUCTION:	
	Cargo Aircraft:	855
	Passenger Aircraft:	Y840 (0.5 liter maximum per package)
	IMDG:	
	EmS Number:	F-A , S-B

NOTE: This product is not a marine pollutant.

15. REGULATORY INFORMATION

NOTE: The information here is often based on data for the chemical raw material. The kit contains a significantly diluted concentration in an aqueous solution; thus, unless otherwise noted the assessment below has NOT taken hazard reduction processing into consideration when possible.

Region/Area/Location	Additional Requirements	
United States	29 CFR 1910.1200 (OSHA): Corrosive SARA 302/313: Listed State Right to Know Listed: Pennsylvania, New Jersey & Massachusetts. California Prop. 65: Listed	40 CFR 116-117 (EPA): Corrosive SARA 311/312: Acute/Chronic Health Hazard
Canada (WHMIS)	Canada DSL Listed: Yes  D1A: Very Toxic, Immediate & Serious	Classification: D1A, D2A,E  D2A: Very Toxic, Other effects  E: Corrosive

16. OTHER INFORMATION

The information contained herein is accurate to the best of our knowledge. OraSure Technologies Inc. makes no warranty of any kind, expressed or implied, concerning the safe use of this material in the process or in combination with other substances.

SUMMARY OF CHANGES: 5/5/2011; Information update and reformatted to comply with the Globally Harmonized System.