

**IDENTIFICATION** 

1.

Catalog Number	BAH-CD28-CD86
<b>Kit Components Usage</b> This product is furnished for LABORATOR	Y RESEARCH USE ONLY. Not for diagnostic or therapeutic use
Supplier Identification	
Company	RayBiotech, Inc. 3607 Parkway Lane, Suite 100 Peachtree Corners, GA 30092 USA
Telephone	1-888-494-8555 (Toll Free); 770-729-2992
Fax	770-206-2393
Website	www.RayBiotech.com
Email	info@raybiotech.com
Emergency Telephone Number	
Emergency Phone #	1-888-494-8555

# 2. HAZARDS IDENTIFICATION

# **Hazardous Ingredients**

- 1. The Stop Solution contains Sulfuric Acid.
- 2. Assay Diluent A contains Sodium Azide.

# **OSHA/HCS** status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

# Classification of the substance or mixture

Sulfuric Acid (Stop Solution): Skin Corr./Irrit. 1A (H314)

Sodium Azide (Assay Diluent A): Short-term (acute) aquatic hazard (Category 3), H402; Long-term (chronic) aquatic hazard (Category 3), H412

# **GHS Label Elements**

Hazard Pictograms

Signal Word/s



Hazard Statements

Sulfuric Acid (Stop Solution): Causes skin irritation (H315); Causes serious eye irritation (H319) Sodium Azide (Assay Diluent A): Harmful to aquatic life with long lasting effects (H412)

None known.

3.	COMPOSITION/INFORMATION ON INGREDIENTS				
	CAS Numbers/other identifiers				
Ingredient Name <u>%</u> CAS Number					
	Sulfuric Acid	0.2	7664-93-9		
	Sodium Azide	<0.01	26628-22-8		

## 4. FIRST-AID MEASURES

## **Description of Necessary First Aid Measures**

Eye Contact	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
Skin Contact	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing and clean shoes before reuse.
Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Ingestion	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

# **Potential Acute Health Effects**

No specific data. Notes to Physician

 Eye Contact
 Sulfuric Acid (Stop Solution): Causes serious eye damage (H319)

 Skin Contact
 Sulfuric Acid (Stop Solution): Causes skin irritation (H315)

 Over-Exposure Signs/Symptoms
 Sulfuric Acid (Stop Solution): Causes skin irritation (H315)

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## **Specific Treatments**

No specific treatment

#### **Protection of First-Aiders**

No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

#### 5. FIRE FIGHTING MEASURES

Extinguishing Media	Use an extiguishing agent suitable for the surrounding fire, such as water spray, carbon dioxide, dry chemical power or appropriate foam. Prevent contact with skin and eyes.
Chemical Hazards from Fire	In a fire or if heated, a pressure increase will occur and the component containers may burst.

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal Precautions, Protective Equipment and Emergency Procedures

For Non- Emergency Personnel	No action shall be taken involving any personal risk or without suitable training.Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For Emergency Responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For Non-Emergency Personnel" above.
Environmental Precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Protective Equipment	Wear respirator, chemical safety goggles, rubber boots and rubber gloves.

### Methods and Materials for Containment and Cleaning Up

Small Spill	Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water- soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large Spill	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non- combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

### 7. STORAGE AND HANDLING

#### Storage

Store the entire kit frozen at -20°C upon arrival.

#### Handling

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Permissible Exposure Limits (PELs)

		Regulatory Limits		Recommended Limits	
		OSHA PEL	Cal/OSHA PEL	NIOSH REL	ACGIH
Substance	CAS No.	mg/m <sup>3</sup>	8-hour TWA (ST) STEL (C) Ceiling	Up to 10-hour TWA (ST) STEL (C) Ceiling	8-hour TWA (ST) STEL (C) Ceiling
Sodium Azide	26628-22-8	-	-	0.3 mg/m <sup>3</sup> (C; Skin)	0.29 mg/m <sup>3</sup> (C)

### **Appropriate Engineering Controls**

Showers Eyewash stations Ventilation systems

#### **Protective Equipment**

Wear suitable protective clothing, including gloves, safety glasses, dust mask, and a laboratory coat.

### **Special Precautions**

Not for human or drug use. Not for household use.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES Clear, colorless Appearance Odor Odorless **Physical State** Liquid pН N/A **Boiling Point** N/A Melting Point N/A Freezing Point N/A Vapor Pressure N/A Vapor Density N/A Specific Gravity N/A **Evaporation Rate** N/A Solubility in Water N/A Odor Threshold N/A Coefficient of Water/Oil Distribution N/A

#### 10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal handling procedures.
Hazardous Reactions	Under normal conditions of storage and use, hazardous reactions will not occur.

# 11. TOXICOLOGICAL INFORMATION Acute toxicity

	Ingredient Name	Result	Species	Dose	
	Sulfuric Acid	LD50	Oral rat Inhalation rat	347 ppm 2140 mg/kg	
	Sodium Azide	LC50 Inhalation LD50 Oral LD50 Dermal	Rat Rabbit Rabbit	37 mg/m3 10 mg/kg 20 mg/kg	
	Carcinogenicity	Not listed as a	carcinogen by ACGIH, IAR	C, NTP, or CA Prop 65	
	Sensitization	Not Available			
	Mutagenicity	Not available			
	Reproductive Toxicity	Not Available	Not Available		
	Specific target organ toxici (single exposure)	ty Not available			
	Specific target organ toxici (repeated exposure)	ty Not available			
	Aspiration hazard	Not available			
	Likely routes of exposure	Routes of entry	y anticipated: Oral, Dermal,	Inhalation.	
	Potential acute health effect	:ts			
	Eye contact	Sulfuric Acid (	stop solution): Risk of seriou	s damage to eyes.	
	Inhalation		ificant effects or critical haza (stop solution): Harmful if in		
	Ingestion	No known sigr	ificant effects or critical haza	ards	
	Skin Contact	Sulfuric Acid (	stop solution): Skin irritant or	r corrosion.	
	ECOLOGICAL INFORMATIC	NC			
	Ecotoxicity	No data availa			
	Persistence and degradabi	•			
	Bioaccumulation/accumula				
	Mobility in environmental n				
	Other hazardous effects	May be harmfu	I to the environment, particu	larly aquatic organisms.	
-	DISPOSAL CONSIDERATIO	Disposal shou laws and regul state requirem public sewers	ations. Local regulations ma ents. Verify local and state r or landfills. Do not dump into	blicable national, state, and local ay be more stringent than national egulations before discharging into any body of water. Contact a ce for appropriate methods of	
	TRANSPORT INFORMATIO	N			
	DOT	Not dangerous	goods.		
	ΙΑΤΑ	Not dangerous	-		
	ADR	Not dangerous	goods.		
	REGULATORY INFORMATI	ON			
	United States (TSCA)		are on the inventory or exer	npt from listing.	
	Canada (DSL / NDSL)	•	are on the inventory or exer		

	Europe	In accordance with Regulation (EC) No 1272/2008 - classification, labelling and packaging of substances and mixtures (CLP)
	SARA 302 Components	Sulfuric Acid (Stop Solution): CAS 7664-93-9 Sodium Azide (Assay Diluent A): CAS 26628-22-8
	SARA 313 Components	Sulfuric Acid (Stop Solution): Concentration <3% Sodium Azide (Assay Diluent A): Concentration <0.1%
	SARA 311/312 Hazards	Sulfuric Acid (Stop Solution): Health hazard - Skin corrosion or Irritation Health hazard - Serious eye damage or eye irritation
	California Prop. 65 Components	Sulfuric Acid (Stop Solution): WARNING: This product contains a chemical known to the State of California to cause cancer.
16.	OTHER INFORMATION	
	Disclaimer	The above information was obtained from sources available at the time of revision and believed to be accurate and reliable. The information included is not intended to be all inclusive and should only be used as a guide. RayBiotech shall not be held liable for any damage resulting from use, handling, or contact with the above product.
	Last Revised	12/6/2022

