

Section 1. Company & PRODUCT INFORMATION

Company undertaking Identification: VitaScientific, Suite 302, 8400 Baltimore Avenue, College Park, MD 20740

Contact email: info@cubebiosystems.com
Contact phone: 1-240-316-3161
Emergency Contact: 1-800-314-3246
 240-316-3161
 Outside US: +1-240-316-3161

Product name: Cube Bioystems ELISA KITS
Product code: CUBEK#####, e.g. CUBEK02459

Component	Substance
Standard	Sodium Azide
Sample Dilution Buffer	Sodium Azide
Biotinylated detection antibody	Sodium Azide
Antibody Dilution buffer	Sodium Azide
Peroxidase Conjugate	Sodium Azide
Peroxidase Conjugate Buffer	Sodium Azide
Color Developing Solution	
Stop solution	Sulfuric Acid

Section 2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous/Non-hazardous Components: .

Chemical name	EC-No	CAS-No	Weight %
Sulfuric acid	247-852-1	26628-22-8	0.02

Classification: Regulation (EC) No. 1272/2008 [CLP/GHS]

Stop Solution contains Sulfuric Acid : Skin Irrit. Class 2

Signal Word: WARNING

Hazard statements: Causes irritation and serious eye irritation.

Precautionary statements: Wash hands thoroughly after handling. Wear protective gloves, clothing and eye and face protection.

IF ON SKIN (or hair): Immediately remove contaminated clothing and wash before re-use. Wash skin immediately with soap and water. Get medical attention if irritation persists after washing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing. If eye irritation persists, get medical attention.

IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.

Classification according to Directive 67/548/EEC: Irritating to eyes and skin.

Hazard Symbol / R-Phrase / S-Phrase: Xi, Irritant / R36/38, Irritating to eyes and skin. / S26, In case of contact with eyes, rinse immediately with plenty of water and see medical advice.

Other hazards : none

Section 3. HAZARDS IDENTIFICATION

3.1 Substances

Chemical Name	EC-No	CAS-No	Concentration %	Classification (67/548)	Classification
Sodium azide	247-852-1	26628-22-8	0.02	T+; R27/28	Acute Tox.2
				R32	(H300)
				N; R50/53	Acute Tox.1(H310)
					Aquatic Acute 1(H400)
					Aquatic Chronic 1(H410)
					(EUH032)
Sulphuric acid	231-639-5	7664-93-9	2	C; R35	Skin Corr. 1A

Section 4. FIRST AID MEASURES

Skin contact:	Wash off immediately with plenty of water.
Eye contact:	Wash thoroughly with water, also under eyelids. Consult a physician.
Ingestion:	No specific measure: never give anything by mouth to unconscious person. Rinse with water.
Inhalation:	If not breathing, provide artificial respiration. Move to fresh air
Notes to physician:	Treat symptomatically.

Section 5. FIREFIGHTING MEASURES

Suitable extinguishing media:	Dry chemical
Flashpoint:	None
Sensitivity to Mechanical Impact:	None
Sensitivity to Static Discharge:	None
Special protective equipment	Wear self-contained breathing apparatus and protective suit for fire fighters.

Section 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Use standard personal protective equipment.
Environmental precautions:	Try to prevent the material from entering drains or water courses.
Methods for containment:	Prevent further leakage or spillage if safe to do so.
Methods for clean up:	Soak up with inert absorbent material and dispose in suitable container

Section 7. HANDLING AND STORAGE

Handling:	Handle in accordance with good industrial hygiene and safety practice.
Storage:	Keep containers tightly closed in a dry, cool and well-ventilated place.

Section 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure controls

Exposure limits:	Unknown
Engineering measures:	Showers. Eyewash stations. Ventilation systems.

Personal protective equipment

Respiratory protection:	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.
Hand protection:	Impervious butyl rubber gloves. Nitrile gloves are not recommended as breakthrough times may be 5 mins.
Eye protection:	Safety glasses with side shields.
Skin and body protection:	Lightweight protective laboratory coat
Hygiene measures:	Handle in accordance with good industrial hygiene and safety practice.

Section 9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Form: Liquid

Health & Safety and Environmental information

Appearance:	data not known
Odor:	data not known
Odor Threshold:	data not known
pH:	data not known
Physcial Stat@ 20°C:	data not known
Decomposition temp:	data not known
Boiling point/range:	data not known
Melting point/range:	data not known
Flashpoint:	data not known
Autoignition point:	data not known
Oxidising properties:	data not known
Water solubility:	data not known
Specific Gravity:	data not known
Evaporation Rate:	data not know
VOC Content:	not applicable
Stable Materials to avoid:	data not known
Flammability limits in air:	data not known
Vapor Density:	data not known

10. Stability and Reactivity

Stability:	Stable under recommended storage conditions
Hazardous decomposition products:	Data not known
Polymerization:	data not known

Incompatible Products: Not known from information supplied.
Conditions to avoid: Not known from information supplied.

11. TOXICOLOGICAL INFORMATION

Chemical Name	ACGIH	IARC	NTP	OSHA
Sulphuric acid	A2	Group 1	Known	X

Acute Toxicity

Product Information: Product does not present an acute toxicity hazard based on known or supplied information.

Chronic Toxicity

Carcinogenicity

This product contains one or more substances which are classified by IARC as carcinogenic to humans (Group I), probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

ACGIH: (American Conference of Governmental Industrial Hygienists)
A2: Suspected Human Carcinogen
IARC: (International Agency for Research on Cancer)
Group 1: Carcinogenic to Humans
NTP: (National Toxicity Program)
Known - Known Carcinogen
OSHA: (Occupational Safety & Health Administration)
Target Organ Effects: Eyes. Respiratory system. Skin. Teeth.

Section 12. ECOLOGICAL EFFECTS

Chemical Name	Toxicity to algae	Toxicity to fish	29: 24 h Daphnia
Sulphuric acid		500: 96 h Brachydanio rerio mg/L LC50 static	29: 24 h Daphnia magna mg/L EC50

Section 13. DISPOSAL CONSIDERATIONS

Waste disposal methods: This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste,

if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

Contaminated Packaging: Do not re-use empty containers.

Section 14. TRANSPORT CONSIDERATIONS

IATA, DOT, ADR

Proper Shipping Name: No dangerous good in sense of these transport regulations

Target Organ Effects: No known effects under normal use conditions

Hazard Class: None

Subsidiary Class: None

Packing Group: None

UN-No: None

Section 15. Regulatory Information

US Federal Regulations

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

Chemical name	CAS-No	Concentration %	SARA 313-Threshold Values %
Sulfuric acid	26628-22-8	0.02	1%

SARA 311/312 Hazards

Acute Health Hazard: no

Chronic Health Hazard: no

Fire Hazard: no

Sudden Release of Pressure Hazard: no

Reactive Hazard: no

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61): This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA – Reportable Quantities	CWA – Toxic Pollutants	CWA – Hazardous Substances
Sulfuric acid			X

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Sulfuric acid	1000 lb	1000 lb	RQ 1000 lb final RQ RQ 454 kg final RQ

California Proposition 65: This product contains the following Proposition 65 chemicals:

Chemical Name	CAS-No	California Prop. 65
Sulfuric acid	7664-93-9	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	Massachusetts	New Jersey	Pennsylvania	Illinois	Rhode Island
Sulphuric acid	X	X	X	X	X

International Regulations

Chemical Name	Carcinoge Status	Exposure limits
Sulphuric acid	A2	Mexico: TWA 1 mg/m ³

WHMIS Note: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

Section 16. OTHER INFORMATION

For research use only. Not intended for human or animal diagnostic or therapeutic uses.

Revision Date: 12/15/16

Revision Note: None

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet