



Issuing Date: 14-May-2002

Revision Date: 29-Jun-2018

Rev. 6

1. IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND THE COMPANY/UNDERTAKING

Product Name: Protease Inhibitor Cocktail
Product Code: IB01070
Recommend Use: For further manufacturing use only
Not for human or animal drug use
Company: IBI SCIENTIFIC
7445 Chavenelle Road
Dubuque, IA 52002
Emergency Tele. Number: 3E Company (Acct# 9027) 1-800-451-8346 / (001) 760-602-8703
Company Tele. Number: 1-800-253-4942 / (001) 563-690-0484
E-Mail Address: info@ibisci.com

2. HAZARDOUS IDENTIFICATION

GHS – Classification

Classification: This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute Toxicity – Oral	Category 4
Acute Toxicity – Dermal	Category 4
Acute Toxicity – Inhalation (Dusts/Mists)	Category 4
Skin Corrosion/Irritation	Category 1, sub-category B
Serious Eye Damage/Eye Irritation	Category 1

Signal Word: Danger



Appearance: Colorless
Physical State: Liquid
Odor: No information available
Hazard Statements: H302-Harmful if swallowed
H312-Harmful in contact with skin
H314-Causes severe skin burns and eye damage
H332-Harmful if inhaled

Precautionary Statements: P264-Wash face, hands, and any exposed skin thoroughly after handling
P270-Do not eat, drink, or smoke when using this product
P271-Use only outdoors or in a well-ventilated area
P260-Do not breathe dusts or mists

P280-Wear protective gloves/protective clothing/eye protection/face protection
P310-Immediately call a POISON CENTER or doctor/physician
P305+P351+P338-IF IN EYES: Rinse cautiously 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
P311-Call a POISON CENTER or doctor if you feel unwell
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 person to fresh air and keep comfortable for breathing
P310-Immediately call a POISON CENTER or doctor/physician
P301+P312+P330-IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell *
P330-Rinse mouth
P331-Do NOT induce vomiting
P405-Store locked up
P501-Dispose of contents/container to an approved waste disposal plant.

Hazards not otherwise classified: Not regulated

Other Information: No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name: 4-(2-Aminoethyl)benzenesulfonylfluoride
EC No.: -
REACH Reg. No.: Not Available
CAS No.: 30827-99-7
Weight %: 70-80
Classification: -

Chemical Name: New Zealand assigned name pending
EC No.: -
REACH Reg. No.: Not Available
CAS No.: 103476-89-7
Weight %: 10 - 20
Classification: -

4. FIRST AID MEASURES

Eye Contact: Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.
Skin Contact: Wash off immediately with soap and plenty of water, removing all contaminated clothes and shoes. In the case of skin irritation or allergic reactions see a physician.
Inhalation: Move to fresh air. If breathing is difficult, give oxygen. May cause allergic respiratory reaction.
Ingestion: Never give anything by mouth to an unconscious person. Rinse mouth.
Notes to Physician: Treat symptomatically.

5. FIRE FIGHTING MEASURES

Flammable Properties: Not flammable
Flash Point: Not determined
Suitable Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

Hazardous Combustion Products:	Carbon oxides, Nitrogen oxides (NO _x), Sulfur oxides, Hydrogen chloride gas, Hydrogen fluoride
Explosion Data	
Sensitivity to Mechanical Impact:	Not sensitive
Sensitivity to Static Discharge:	Not sensitive
Protective Equip. & Precautions for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equiv.) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Ensure adequate ventilation, especially in confined areas.
Environmental Precautions:	See Section 12 for additional Ecological Information.
Methods for Containment:	Prevent further leakage or spillage, if safe to do so.
Methods for Cleaning Up:	Absorb on sand or vermiculite and place in closed containers for disposal. Ventilate area and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Handling:	Handle in accordance with good industrial hygiene and safety practice. Hygroscopic.
Storage:	Hygroscopic. Keep container tightly closed in a dry, frozen, and well-ventilated place.
Incompatible Products:	Strong oxidizing agents. Strong bases. Protect from moisture.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Measures:	Showers, Eyewash Stations, Ventilation Systems
Personal Protective Equipment	
Eye/Face Protection:	Safety glasses with side shields. Avoid contact with eyes.
Skin & Body Protection:	Wear protective gloves/clothing.
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.
Hygiene Measures:	Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Colorless liquid
Odor:	No information available
Odor Threshold:	No information available
Decomposition Temp. °C:	No information available
Freezing Point:	No information available
Initial Boiling Point:	No information available
Physical State:	Liquid
pH:	No data available
Flash Point:	Not determined
Autoignition Temp. °C:	No data available
Boiling Point/Range:	No data available
Melting Point/Range:	No data available
Flammability Limits (Air):	<u>Upper</u> -No data available * <u>Lower</u> -No data available
Explosion Limits	No information available
Explosive Properties:	No information available
Oxidizing Properties:	No information available

Evaporation Rate:	No information available
MMHG @ 37.8°C:	No data available
Vapor Density:	No data available
Specific Gravity:	No data available
Solubility:	No information available
Partition Coefficient (n-octanol/water):	No data available
Viscosity:	No information available

10. STABILITY AND REACTIVITY

Stability:	Stable under recommended storage conditions
Incompatible Products:	Strong oxidizing agents. Strong bases. Protect from moisture.
Conditions to Avoid:	Extremes of temperature and direct sunlight
Hazardous Decomposition Products:	Carbon oxides, Nitrogen oxides (NOx), Sulfur oxides, Hydrogen chloride gas, Hydrogen fluoride.
Hazardous Polymerization:	Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Product Information:	Inhalation – Harmful by inhalation Eye Contact – May cause irreversible damage to eyes Skin Contact – Causes burns, Harmful in contact with skin Ingestion – Harmful if swallowed
Chemical Name:	4-(2-Aminoethyl)benzenesulfonylfluoride
LD50 Oral:	-
LD50 Dermal:	-
LC50 Inhalation:	-
Chemical Name:	New Zealand assigned name pending - #103476-89-7
LD50 Oral:	-
LD50 Dermal:	-
LC50 Inhalation:	-

Information on toxicological effects

Symptoms	No information available
<u>Delayed and immediate effects as well as chronic effects from short and long-term exposure</u>	
Sensitization	No information available
Mutagenic Effects	No information available
Carcinogenicity	No information available
Chemical Name:	4-(2-Aminoethyl)benzenesulfonylfluoride
ACGIH:	-
IARC:	-
NTP:	-
OSHA:	-
Chemical Name:	New Zealand assigned name pending - #103476-89-7
ACGIH:	-
IARC:	-
NTP:	-
OSHA:	-
Reproductive Toxicity	No information available
STOT – single exposure	No information available
STOT – repeated exposure	No information available
Aspiration hazard	No information available

Numerical measures of toxicity – Product Information

The following values are calculated based on chapter 3.1 of the GHS document.

12. ECOLOGICAL INFORMATION

Ecotoxicity:	100% of the mixture consists of component(s) of unknown hazards to the aquatic environment.
Chemical Name:	4-(2-Aminoethyl)benzenesulfonylfluoride
Algae/aquatic plants:	-
Toxic to Fish:	-
Crustaceas:	-
Chemical Name:	New Zealand assigned name pending - #103476-89-7
Algae/aquatic plants:	-
Toxic to Fish:	-
Crustaceas:	-
Persistence and Degradability:	No information available
Bioaccumulation/Accumulation:	No information available
Chemical Name:	4-(2-Aminoethyl)benzenesulfonylfluoride
Partition coefficient	-
Chemical Name:	New Zealand assigned name pending - #103476-89-7
Partition coefficient	-
Other Adverse Effects:	No information available

13. DISPOSAL CONSIDERATIONS

Water Disposal Method:	Dispose of material in accordance with all federal, state, and local regulations.
Contaminated Packaging:	Do not re-use empty containers. Dispose of in accordance with all federal, state, and local regulations.

14. TRANSPORT INFORMATION

<u>IATA</u>
Not regulated
<u>US DOT</u>
Not regulated

15. TOXICOLOGICAL INFORMATION

<u>REACH Title VII Restrictions</u>	No information available - #30827-99-7
Chemical Name:	4-(2-Aminoethyl)benzenesulfonylfluoride
Dangerous Substances:	Not applicable
Organic Solvents:	Not applicable
Harmful Substances Whose Names are to be indicated on the Label:	Not applicable
Pollution Release and Transfer Registry (Class II):	Not applicable
Pollution Release and Transfer Registry (Class I):	Not applicable
Poison and Deleterious Substances Control Law:	Not applicable
ISHA – Harmful Substances Prohibited for Manufacturing, Importing, Transferring, or Supplying:	Not applicable
ISHA – Harmful Substances Requiring Permission:	Not applicable
Toxic Chemical Classification Listing (TCCL):	Not applicable
Toxic Release Inventory (TRI) – Group I:	Not applicable
Toxic Release Inventory (TRI) – Group II:	Not applicable
<u>International Inventories</u>	
TSCA:	Does not comply
DSL/NDSL:	Does not comply
EINECS/ELINCS:	Does not comply

ENCS:	Does not comply
IECSC:	Does not comply
KECL	Does not comply
PICCS	Does not comply
AICS	Does not comply

U.S. 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 & Title 40 of the Code of Federal Regulations, part 372.

SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Water Act

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).

Clean Air Act

This product does not contain any substances regulated as hazardous air pollutants (HAPS) under Section 112 of the Clean Air Act Amendments of 1990.

CERCLA

The material, as supplied, contains one or more 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:	4-(2-Aminoethyl)benzenesulfonyl fluoride
Hazardous Substances RQs	-
Extremely Hazardous Sub. RQs:	-
RQ	-

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

International Regulations

Mexico

No information available

Canada

No information available

WHMIS Hazard Class

D2A – Very toxic materials

D2B – Toxic materials



16. OTHER INFORMATION

Issuing Date:	14-May-2002
Revision Date:	29-Jun-2018
Revision Note:	Updated address and logo
Recommended Restrictions:	No information available
Disclaimer:	The information provided on this SDS 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 guide for safe handling, use, processing, storage, transportation, disposal, and release; and is not to be considered as 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 material or in any process, unless specified in the test.

End of Safety Data Sheet