



# MATERIAL SAFETY DATA SHEET

**Product:****161088 Protein Mixture Digest, 100 pmol, Lyophilized**DIONEX Benelux B.V.  
Abberdaan 114  
NL 1046AA AmsterdamEmergency Phone: 1-800-424-9300 (CHEMTREC)  
Information Phone: +31 (0) 20 683 9768  
Date Prepared: 1/30/2009

The following information is believed to be accurate and is currently the best information available to us. However, we make no warranties, express or implied, with respect to the information supplied and we assume no liability resulting from its use.

**2. HAZARDOUS IDENTIFICATION**

HAZARD CLASS		NFPA	HMIS
<b>Eyes:</b> May cause eye irritation.	<b>HEALTH</b>	3	
<b>Skin:</b> May be harmful if absorbed through the skin.	<b>FLAMMABILITY</b>	0	
<b>Ingestion:</b> May be harmful if swallowed.	<b>REACTIVITY</b>	1	
<b>Inhalation:</b> May be harmful if inhaled.	<b>NFPA SPECIAL</b>		
	<b>HMIS PPE</b>		

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

HAZARDOUS COMPONENTS	Tryptic peptides from Cytochrome C (Lysosyme, Alcohol Dehydrogenase, BSA, apo-Transferrin, $\beta$ -Galactosidase)	Trypsin	AmmoniumBicarbonaat	Trifluoroacetic acid
PERCENT (%)	2.2%	84%	5%	8.8%
CAS NO.	N/A	9002-07-7	1066-33-7	76-05-1
EINECS NO.	N/A	N/A	N/A	200-929-3
RISKS	Not hazardous according to Directive 67/548/EEC	R 22/36-38/42/43	Xn R 36/37/38	R 23/24/25-35-52/53
SAFETY	N/A	S 26-36	N/A	S 9-26/27/28-45-61



# MATERIAL SAFETY DATA SHEET

## 4. FIRST AID MEASURES

- GENERAL:** Remove contaminated clothing, wash thoroughly before reuse.
- EYES:** Flush with water for at least 15 minutes occasionally raising upper and lower eyelids.
- SKIN:** Remove contaminated clothing and flush with water thoroughly
- INHALATION:** Move to fresh air
- INGESTION:** If large amounts are swallowed, get medical help immediately. If patient is conscious, give large quantities of water

## 5. FIRE FIGHTING MEASURES

- UNUSUAL FIRE AND EXPLOSION:** None
- HAZARDS:** Emits toxic fumes under fire conditions.
- EXTINGUISHING MEDIA:** Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.
- SPECIAL FIRE FIGHTING PROCEDURES:** Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

## 6. ACCIDENTAL RELEASE MEASURES

- Ventilate area.
- Wear appropriate protective clothing and eye protection.
- Contain spill.
- Collect or absorb with an inert material (vermiculite, dry sand, earth, etc.)
- Mop up and store in a suitable waste container.
- Wash contaminated areas with soap and water.

## 7. HANDLING AND STORAGE

- Ensure good ventilation.
- Have an eye wash in the immediate area in case of emergency.
- Store at -20 °C
- Keep container tightly closed
- Use good laboratory practice when working with any chemical whether it is considered hazardous or not.



# MATERIAL SAFETY DATA SHEET

## 8. EXPOSURE CONTROL/PERSONAL PROTECTION

### ROUTES OF ENTRY

**INHALATION:** Yes

**SKIN:** Yes

**INGESTION:** Yes

### HEALTH HAZARDS

**ACUTE:** May cause irritation of eyes and mucous membranes

**CHRONIC:** Unknown

### VENTILATION

**LOCAL EXHAUST:** Good laboratory ventilation is acceptable.

**MECHANICAL (GENERAL):** Use in hoods if possible

**SPECIAL:** None

**OTHER:** None

### PROTECTIVE CLOTHING OR EQUIPMENT

**GLOVES:** Disposable laboratory gloves are adequate

**EYE PROTECTION:** Glasses or goggles.

**RESPIRATORY:** None

**OTHER:** Lab coats

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**APPEARANCE:** Lyophilized powder

**ODOR:** None

**pH:** Not Applicable

**MOLECULAR WEIGHT:** Not Determined

**MELTING POINT:** Not Applicable

**BOILING POINT:** 333 degrees F  
167 degrees C

**AUTOIGNITION TEMPERATURE:** Not Applicable

**FLASH POINT:** Not Applicable

**LOWER EXPLOSION LIMIT:** Not Applicable

**UPPER EXPLOSION LIMIT:** Not Applicable

**SPECIFIC GRAVITY:** Not Determined



# MATERIAL SAFETY DATA SHEET

## 10. STABILITY & REACTIVITY

**STABILITY/CONDITIONS TO AVOID:** Stable

**INCOMPATIBILITY (MATERIALS TO AVOID):** Strong acids and strong bases

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Not Determined

**HAZARDOUS POLYMERIZATION:** Will not occur

## 11. TOXICOLOGY INFORMATION

### PRODUCT TOXICOLOGY INFORMATION:

**SYMPTOMS AND SIGNS OF EXPOSURE:** May cause skin irritation  
May be harmful if absorbed through the skin  
May cause eye irritation  
May be irritating to mucous membranes and upper respiratory tract  
May be harmful if swallowed

**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** Toxicological properties have not been thoroughly investigated

**EMERGENCY AND FIRST AID PROCEDURES:** In case of contact, wash skin with copious amounts of water.  
Flush eyes with copious amounts of water for at least 15 minutes.  
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.  
Submit to medical examination.

**CARCINOGENICITY:** No data found

**RTECS #:** No data found

**ACGIH TLV TWA:** No data found

**OSHA PEL:** No data found

**NTP:** No data found

**IARC Monographs:** No data found

### HAZARDOUS COMPONENT TOXICOLOGY INFORMATION:

<b>Hazardous Components:</b>	Trifluoroacetic Acid
<b>RTECS #</b>	
<b>OSHA PEL</b>	Not Found
<b>ACGIH TLV</b>	1 ppm
<b>TOXICITY DATA</b>	



# MATERIAL SAFETY DATA SHEET

## 12. ECOLOGICAL INFORMATION

No information is found on environmental toxicity for this solution

## 13. DISPOSAL CONSIDERATIONS

Contact local hazardous materials or chemical waste disposal agency for regulations.

## 14. TRANSPORT INFORMATION

**IATA CLASSIFICATION: Not Regulated**

**UN ID NUMBER:**

**PROPER SHIPPING NAME:**

**CLASS OR DIVISION:**

**HAZARD LABEL(S):**

**PACKAGING GROUP:**

**LIMITED QUANTITY PKG INSTRUCTION:**

**MAXIMUM LIMITED QUANTITY:**

**SPECIAL PROVISIONS:**

**ERG CODE:**

**TRAINING:**

**VARIATIONS:**

## 15. REGULATORY INFORMATION

**PRODUCT RISK STATEMENTS:** Caution: Substance not yet fully tested (EU).  
Not hazardous according to Directive 67/548/EEC.

**PRODUCT SAFETY STATEMENTS:** S1 Keep locked up  
S2 Keep out of reach of children  
S9 Keep container in a well ventilated place  
S22 Do not breathe dust  
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  
S27 Take off immediately all contaminated clothing  
S28 After contact wash immediately with plenty of soap-suds  
S36 Wear suitable protective clothing  
S45 In case of accident or if you feel unwell, seek medical advice immediately  
S61 Avoid release to the environment

## 16. OTHER INFORMATION

**DISCLAIMER:** For R&D use only. Not for drug, household or other uses.