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## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

**Name of product** US IVD BTS  
Art. No. 8604530

**1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Recommended intended purpose(s)**  
Laboratory chemical

### 1.3. Details of the supplier of the safety data sheet

**Manufacturer/distributor** Bruker Daltonik GmbH  
Fahrenheitstr. 4, D-28359 Bremen  
Phone +49(421)2205-0, Fax +49(421)2205-100  
E-Mail care@bruker.com  
Internet www.bruker.com

**Advice** Bruker Daltonik GmbH  
Phone +49(421)2205-0  
E-mail (competent person):  
care@bruker.com

**1.4. Emergency telephone number** Emergency CONTACT (24-Hour-Number):  
**Emergency advice** GBK GmbH +49 (0)6132-84463

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## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]**

#### **Additional hints**

This mixture is not classified as hazardous according to Regulation (EC) 1272/2008 [GHS].

### 2.2. Label elements

**Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]**

#### **Additional information**

##### **Remark**

NOTE: This mixture contains not yet fully tested (natural) substances.

### 2.3. Other hazards

#### **Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.



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## **SECTION 3: Composition/ information on ingredients**

### **3.1. Substances**

not applicable

### **3.2. Mixtures**

#### **Description**

Protein mixture, lyophilized

#### **Additional advice**

The mixture does not contain hazardous materials to be mentioned here.

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## **SECTION 4: First aid measures**

### **4.1. Description of first aid measures**

#### **General information**

Remove moisted clothing immediately.

In the event of persistent symptoms receive medical treatment.

#### **In case of inhalation**

Ensure of fresh air.

In the event of symptoms refer for medical treatment.

#### **In case of skin contact**

In case of contact with skin wash off immediately with soap and water.

#### **In case of eye contact**

In case of contact with eyes rinse thoroughly with water.

Remove contact lenses

Refer to medical treatment.

#### **In case of ingestion**

Do not induce vomiting.

Seek medical advice immediately.

Rinse out mouth thoroughly with water.

### **4.2. Most important symptoms and effects, both acute and delayed**

No information available.

### **4.3. Indication of any immediate medical attention and special treatment needed**

#### **Treatment (Advice to doctor)**

Treat symptoms.

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## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

Alcohol-resistant foam

Dry fire-extinguishing substance

Carbon dioxide

Water spray jet

### **5.2. Special hazards arising from the substance or mixture**

In case of thermal decomposition, the product can evolve dangerous gases.



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### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighters**

Use breathing apparatus with independent air supply ( isolated ).

Wear full protective clothing.

#### **Additional information**

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

Collect contaminated firefighting water separately, must not be discharged into the drains.

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## **SECTION 6: Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

#### **For non-emergency personnel**

Avoid contact with clothing, skin and eyes.

Avoid dust formation.

Use personal protective clothing.

Use breathing apparatus if exposed to vapours/dust/aerosol.

### **6.2. Environmental precautions**

Do not discharge into the drains or bodies of water..

Do not discharge into the subsoil/soil.

### **6.3. Methods and material for containment and cleaning up**

Avoid dust formation.

After taking up the material dispose according to regulation.

Take up mechanically and send for disposal.

### **6.4. Reference to other sections**

Safe handling: see section 7

Disposal: see section 13

Personal protection equipment: see section 8

Emergency telephone number: see section 1

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## **SECTION 7: Handling and storage**

### **7.1. Precautions for safe handling**

#### **Advice on safe handling**

Avoid the formation of dust.

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.

The product should be handled with the care usual when dealing with chemicals.

#### **General protective measures**

Avoid contact with eyes and skin

#### **Hygiene measures**

Clean skin thoroughly after working.

Provide washing facilities at place of work.

At work do not eat, drink and smoke.

Remove soiled or soaked clothing immediately.

Keep away from food and drink.

Keep separated from food and feed.



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**Advice on protection against fire and explosion**

Pay attention to general rules of internal fire prevention.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep in closed original container.

Provide floor with bunding.

**Advice on storage compatibility**

Do not store together with food.

Do not store together with oxidizing agents.

**Further information on storage conditions**

Keep container tightly closed and store at cool and dry place.

Recommended storage temperature: < 0°C.

**Storage group** 11

**7.3. Specific end use(s)**

No information available.

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**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

No information available.

**8.2. Exposure controls**

**Respiratory protection**

Short term: filter apparatus, Filter P2

In case of dust formation wear micro dust mask.

**Hand protection**

The selection of the suitable gloves does not only depend on different material, but also on further marks of quality and varies from manufacturer to manufacturer.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

The selected protective gloves have to meet the specifications of EU Directive 89/686 / EEC and the resultant standard EN374.

Glove material specification [make/type, thickness, permeation time/life, wetting resistance]: Nitrile, 0,1 mm, 480 min. e.g. "Dermatril L" (KCL GmbH, Eichenzell (Germany); Email: Vertrieb@kcl.de).

**Eye protection**

tightly fitting goggles

**Other protection measures**

protective clothing

**Appropriate engineering controls**

Ensure good interior ventilation, if necessary exhaustion at the workplace.

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**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**Appearance**

solid / lyophilized

**Colour**

brown

**Odour**

odourless



**Odour threshold**  
 not determined

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value</b>	not determined				
<b>Boiling temperature / boiling range</b>	not determined				
<b>Melting point / Freezing point</b>	not determined				
<b>Flash point</b>					Not applicable.
<b>Vapourisation rate</b>	not determined				
<b>Flammable (solid)</b>	not determined				
<b>Flammability (gas)</b>	not determined				
<b>Ignition temperature</b>	not determined				
<b>Self ignition temperature</b>					Product is not self igniting.
<b>Lower explosion limit</b>	not determined				
<b>Upper explosion limit</b>	not determined				
<b>Vapour pressure</b>	not determined				
<b>Relative density</b>	not determined				
<b>Vapour density</b>	not determined				
<b>Solubility in water</b>					miscible
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	not determined				
<b>Decomposition temperature</b>	not determined				
<b>Viscosity</b>	not determined				

**Oxidising properties**  
 No information available.

**Explosive properties**  
 The product is not explosive.



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**9.2. Other information**  
No information available.

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**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No information available.

**10.2. Chemical stability**

Stable under recommended storage conditions.

Stable under normal conditions of use.

**10.3. Possibility of hazardous reactions**

Reactions with strong oxidising agents.

**10.4. Conditions to avoid**

No information available.

**10.5. Incompatible materials**

**Substances to avoid**

Oxidising agent, strong

**10.6. Hazardous decomposition products**

Concerning possible decomposition products see section 5.

**Thermal decomposition**

Remark No decomposition if used as directed.

**Additional information**

As a general rule we recommend avoiding the contact with strong chemical reagents, such as acids, bases, reductors and oxidizers.

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**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

**Acute toxicity/Irritation/Sensitization**

	Value/Validation	Species	Method	Remark
<b>Skin irritation</b>	slightly irritant effect possible.			
<b>Eye irritation</b>	slightly irritant effect possible			
<b>Skin sensitization</b>	Prolonged or frequently repeated exposure may cause allergic reactions in sensitive persons.			

**Subacute Toxicity - Carcinogenicity**



Value	Species	Method	Validation
<b>Carcinogenicity</b>			This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.

**Experiences made from practice**

The product contains not yet fully tested (natural) substances. Thus health hazards can not be completely excluded.

**Additional information**

The product should be handled with the care usual when dealing with chemicals.  
Further hazardous properties can not be excluded.

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**SECTION 12: Ecological information**

**12.1. Toxicity**

No information available.

**12.2. Persistence and degradability**

No information available.

**12.3. Bioaccumulative potential**

No information available.

**12.4. Mobility in soil**

No information available.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6. Other adverse effects**

**General regulation**

Ecological dates are not available.

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

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**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Recommendations for the product**

Remove in accordance with local official regulations.

**Recommendations for packaging**

Disposal in accordance with local regulations.

Packaging that cannot be cleaned should be disposed of like the product.

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**SECTION 14: Transport information**

	ADR/RID	IMDG	IATA-DGR
<b>14.1. UN number</b>	-	-	-



	ADR/RID	IMDG	IATA-DGR
<b>14.2. UN proper shipping name</b>	-	-	-
<b>14.3. Transport hazard class(es)</b>	-	-	-
<b>14.4. Packing group</b>	-	-	-
<b>14.5. Environmental hazards</b>	-	-	-
<b>14.6. Special precautions for user</b> No information available.			
<b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> No information available.			
<b>Transport/further information</b> No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.			

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

**Water hazard class** -

### 15.2. Chemical Safety Assessment

No information available.

## SECTION 16: Other information

### Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

### Further information

Each user is responsible for the implementation of the national special regulations.

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Please observe the following disclaimer! Our safety data sheets have been compiled according to effective EU directives, WITHOUT taking into account the special national directives concerning the handling of hazardous substances.

### Sources of key data used

Data sheets of the sub-supplier.