Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31



Safety data sheet

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Trade name: Proteas	Frade name: Protease Inhibitor Mix B				
			(Contd. of page 1)		
· Precautionary sta	tements				
P260	Do not breathe di	ust.			
P280	Wear protective protection.	gloves/protective clothing/eye pr	otection/face protection/hearing		
P301+P330+P33		Rinse mouth. Do NOT induce vomit	ting.		
		hair): Take off immediately all conte			
P304+P340	•	move person to fresh air and keep co	mfortable for breathing.		
	8 IF IN EYES: Rin	se cautiously with water for several to do. Continue rinsing.			
· Labelling of nack		ntents do not exceed 125 ml			
· Hazard pictogran					
· Signal word Dang					
0	-				
· Hazard-determin					
		netetraacetate dihydrate			
· · · ·	• • •	uoride hydrochloride			
• Hazard statement					
	ere skin burns and e	eye damage.			
 Precautionary state 					
P280	protection.	gloves/protective clothing/eye pr			
		: Rinse mouth. Do NOT induce vomit			
P303+P361+P35	3 IF ON SKIN (or water [or shower]	hair): Take off immediately all conto].	aminated clothing. Rinse skin with		
P305+P351+P33		se cautiously with water for several to do. Continue rinsing.	minutes. Remove contact lenses, ij		
· 2.3 Other hazards		0			
· Results of PBT a	nd vPvB assessmen	ıt:			
· PBT: PBT - Asses					
· vPvB : vPvB - Ass	essment not availal	hle			
		<i>ii</i> c.			

• Determination of endocrine-disrupting properties No further relevant information available.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Solids mixture

· Dangerous components:		
CAS: 6381-92-6	Disodium dihydrogen ethylenediaminetetraacetate dihydrate	60-80%
EINECS: 205-358-3	🚸 STOT RE 2, H373; 🕔 Acute Tox. 4, H332	
Reg.nr.: 01-2119486775-20		
CAS: 30827-99-7	4-(2-Aminoethyl)-benzene sulfonyl fluoride hydrochloride	15-30%
	♦ Skin Corr. 1B, H314	

· Additional information

The product does not contain any other substances that have to be declared according to UK REACH (Regulation (EC) No 1907/2006).

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

• 4.1 Description of first aid measures

- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact:

Wash off immediately with soap and water and rinse thoroughly. In case of complaints, consult a doctor.

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• After eye contact:

Rinse opened eye for several minutes with running water. Remove contact lenses if possible and continue rinsing. Consult an ophthalmologist immediately.

- · After swallowing: Rinse out mouth. Call a doctor immediately.
- \cdot 4.2 Most important symptoms and effects, both acute and delayed
- $No \ further \ relevant \ information \ available.$
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- · Suitable extinguishing agents:
- CO_2 , extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. • 5.2 Special hazards arising from the substance or mixture:
- Formation of hazardous vapours and gases possible during heating or in case of fire. In case of fire, the following can be formed, but not limited to:
- Nitrogen oxides (NOx)

Hydrogen chloride (HCl)

- Carbon monoxide and carbon dioxide
- · 5.3 Advice for firefighters
- Protective equipment: Wear self-contained breathing apparatus.
- · Additional information

Collect contaminated fire fighting water separately. It must not enter the sewage system.

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

SECTION 6: Accidental release measures

 6.1 Personal precautions, protective equipment and emergency procedures Wear protective clothing. Ensure adequate ventilation Avoid formation of dust.
 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

- 6.3 Methods and material for containment and cleaning up Dispose contaminated material as waste according to section 13. Pick up mechanically.
 6.4 Defenses to other sections.
- **6.4 Reference to other sections** See Section 7 for information on safe handling See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. Prevent formation of dust.

· Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage
- *Requirements to be met by storerooms and receptacles:* Storage temperature: -15 to -25 °C Store only in the original receptacle.
- · Information about storage in one common storage facility: Store away from oxidising agents.
- Further information about storage conditions: Store containers tightly closed and dry.

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• 7.3 Specific end use(s): No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

- Additional information: The lists that were valid during the creation were used as basis.
- · 8.2 Exposure controls
- Appropriate engineering controls: No further data; see section 7.
- · Individual protection measures, such as personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Store protective clothing separately. Immediately remove all soiled and contaminated clothing Avoid inhalation of dust. Avoid contact with the eyes and skin.

Wash hands before breaks and at the end of work.

• Breathing equipment:

Short term filter device: Filter P2.

• Hand protection:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· Material of gloves:

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

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material:

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

 \cdot For the permanent contact of a maximum of 15 minutes gloves made of the following materials are suitable:

Natural rubber, NR Nitrile rubber, NBR

- Eye/face protection: Tightly sealed goggles.
- **Body protection:** Protective work clothing.

SECTION 9: Physical and chemical properties

• 9.1 Information on basic physical and chemical properties• General Information:• Physical state:Solid.• Colour:White• Odour:Odourless• Odour threshold:not determined.• Melting point/freezing point:No information available

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Boiling point or initial boiling point and boiling	
range:	No information available
Flammability:	No information available
Lower and upper explosion limit:	
Lower:	No information available
Upper:	No information available
Flash point:	No information available
Decomposition temperature:	No information available
Viscosity:	
Kinematic viscosity:	No information available
Dynamic viscosity:	No information available
Solubility:	
Water:	Slightly soluble
Partition coefficient n-octanol/water (log value):	No information available
Vapour pressure:	No information available
Density and/or relative density:	
Density:	No information available
Relative density:	No information available
Particle characteristics	
See section 3.	
9.2 Other information	
Appearance:	
Form:	Powder
Important information on protection of health and environment, and on safety:	1
Explosive properties:	The product is not explosive, but the formation of explosive dust/air mixtures is possible.

SECTION 10: Stability and reactivity

- · 10.1 Reactivity: No further relevant information available.
- · 10.2 Chemical stability:
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · 10.3 Possibility of hazardous reactions: No further relevant information available.
- · 10.4 Conditions to avoid: High temperatures
- · 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: In case of fire: see section 5

SECTION 11: Toxicological information

- · 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:
- · Acute toxicity: Harmful if inhaled.
- · Skin corrosion/irritation: Causes severe skin burns and eye damage.
- Serious eye damage/irritation: Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation: Based on available data, the classification criteria are not met.
- · Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- · Carcinogenicity: Based on available data, the classification criteria are not met.
- Reproductive toxicity: Based on available data, the classification criteria are not met.
- STOT-single exposure: Based on available data, the classification criteria are not met.
- · STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.
- Aspiration hazard: Based on available data, the classification criteria are not met.

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- · 11.2 Information on other hazards:
- Endocrine disrupting properties: No relevant information available

SECTION 12: Ecological information

- · 12.1 Toxicity:
- Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability: No further relevant information available.
- 12.3 Bioaccumulative potential: No further relevant information available.
- · 12.4 Mobility in soil: No further relevant information available.
- · 12.5 Results of PBT and vPvB assessment:
- · **PBT:** PBT assessment not available.
- · **vPvB**: vPvB assessment not available.
- 12.6 Endocrine disrupting properties: For information on endocrine disrupting properties see section 11.
- · 12.7 Other adverse effects:
- Additional ecological information:
- · General notes:

Do not allow product to reach ground water, water course or sewage system.

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

Dispose of in accordance with official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
- · Recommendation:

Uncleaned packaging must be disposed of in the same way as the product in accordance with official regulations.

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3261
· 14.2 UN proper shipping name	
· ADR	3261 CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S (4-(2-Aminoethyl)-benzene sulfonyl fluorid hydrochloride MIXTURE)
· IMDG	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (4 (2-Aminoethyl)-benzene sulfonyl fluoride hydrochlorid MIXTURE)
·IATA	CORROSIVE SOLID, ACIDIC, ORGANIC, N.O.S. (4 (2-Aminoethyl)-benzene sulfonyl fluoride hydrochlorid mixture)
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
and the second s	
· Class:	8 Corrosive substances.

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· Label:	8	
· 14.4 Packing group · ADR, IMDG, IATA	II	
· 14.5 Environmental hazards · Marine pollutant:	No	
 14.6 Special precautions for user Hazard identification number (Kemler code) EMS Number: Segregation groups Stowage Category 	Warning: Corrosive sub 80 F-A,S-B (SGG1) Acids B	ostances.
· Segregation Code	SG36 Stow "separated f SG49 Stow "separated f	
 14.7 Maritime transport in bulk according to instruments 	• IMO Not applicable.	
· Transport/Additional information:	Not dangerous accordin	ng to the above specifications.
 ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code 		per inner packaging: 30 g per outer packaging: 500 g
· IMDG · Limited quantities (LQ) · Excepted quantities (EQ)		per inner packaging: 30 g per outer packaging: 500 g
· UN ''Model Regulation'':	N.O.S. (4-(2-AMINOE	E SOLID, ACIDIC, ORGANIC, THYL)-BENZENE SULFONYI HLORIDE MIXTURE), 8, II

SECTION 15: Regulatory information

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

· Poisons Act

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· Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

· Reportable poisons

None of the ingredients is listed.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is listed.

- · DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II
- None of the ingredients is listed.

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· REGULATION (EU) 2019/1148

• Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

• Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· National regulations:

• Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

• **Relevant phrases** H314 Causes severe skin burns and eye damage. H332 Harmful if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

· Department issuing SDS: Product Safety Department

- · Contact: +49 6221 13840-35
- Date of previous version: 02.05.2018

• Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation PBT: persistent, bioaccumulative, toxic substance (UK REACH)

vPvB: very persistent, very bioaccumulative substance (UK REACH)

UK REACH: Regulation concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals

GB CLP: Regulation on classification, labelling and packaging of substances and mixtures

bw: body weight UFI: Unique Formula Identifier

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Acute Tox. 4: Acute toxicity – Category 4

Skin Corr. 1B: Skin corrosion/irritation – Category 1B

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

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