



The mixture is not classified as dangerous. The safety data sheet is based on Article 32 (REACH) and is, therefore, voluntarily adopted in accordance with Annex II (EU No. 453/2010) Regulation (EC) No 1907/2006 (REACH).


1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY

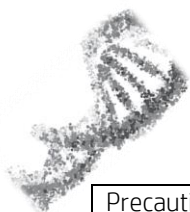
Product name	smarTAE®
Catalog number	21000
EC substance name	Not applicable.
EC number	Not applicable.
CAS reference number	Not applicable.
REACH reference number	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.
Company	Selecta Biotech SE Istrijska 6094/20 841 07 Bratislava, Slovakia Phone: +421 948 176 160
Information in case of emergency	Phone: +421 948 176 160 e-mail: info@selectabiotech.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Powder solution with inorganic and organic components.				
Name	CAS No.	EC No.	Proportion %	Classification according to regulation (EC) No 1272/2008
Tris	77-86-1	201-064-4	75-80 %	Not classified.
Acetic acid	64-19-7	200-580-7	15-20 %	H 315 Skin Irrit 2, H319 Eye Irrit 2
Na2EDTA x 2H2O	6381-92-2	205-358-1	5-6 %	H302 Acute Tox 4
*No components need to be disclosed according to the applicable regulations.				
For the full text of the H-statements mentioned in this Section, see Section 15.				

3. HAZARDS IDENTIFICATION

Classification according to Regulation (EC) No 1272/2008	
H302	Acute Toxicity, oral (Category 2)
H315	Skin irritation (Category 2)
H319	Serious eye irritation (Category 2)
For the full text of the H-statements mentioned in this Section, see Section 15.	
Classification according to EU Directives 67/548/EEC or 1999/45/EC	
Xi	Irritant
For the full text of the R-phrases mentioned in this Section, see Section 15.	
Classification according to Regulation (EC) No 1272/2008 (CLP):	
Labelling Pictogram	
Signal word	Warning.
Hazard statement(s)	
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.



Precaution statement(s)	
P201	Obtain special instructions before use.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective clothing (gloves, eye or face protection).
P301 + P302	IF SWALLOWED: call poison center or doctor if you feel unwell.
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
Supplemental Hazard statements	None.
Restricted to professional users.	
S-phrase(s)	
S53	Avoid exposure - obtain special instructions before use.
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
Restricted to professional users.	
Other hazards	
	None. This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Additional hazards for humans and the environment	
Possible hazardous physicochemical effects	Unknown.
Possible adverse effects on humans and possible symptoms	No data available.
Possible harmful effects	No data available.

4. FIRST-AID MEASURES

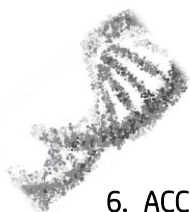
General information	If skin irritation or other symptoms persist, consult a physician. Show this safety data sheet to the doctor in attendance. Remove contaminated clothing and shoes, carefully clean before reuse.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
Ingestion	Never give anything to an unconscious person. Do not induce vomiting. Rinse the mouth, spit out the fluid and drink plenty of water. Get medical attention if symptoms occur.
Skin contact	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
Eye contact	Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
Notes to physician	Treat symptomatically.
Most important symptoms and effects, both acute and delayed	No data available.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media	This product is not flammable. Use extinguishing agent suitable for type of surrounding fire: water spray, dry chemical or CO ₂ , fire extinguishing foam, extinguishing powder.
Special hazards caused by the product, combustion products or resulting gases	Thermal decomposition can lead to release of irritating gases and vapors. Hazardous Combustion Products: Carbon oxides.
Protective equipment	Wear protective clothing. Wear self-contained breathing apparatus for firefighting if necessary.

Selecta Biotech SE

Istrijska 6094/20, 841 07 Bratislava, Slovakia
e-mail: info@selectabiotech.com, www.selectabiotech.com



6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid contact with skin, eyes and clothing, wear appropriate protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
Environmental precautions	Should not be released into the environment.
Methods for cleaning up	Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Handling	Handle in accordance with good industrial hygiene and safety practice. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid ingestion and inhalation. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust might form. For precautions see section 3.
Storage	Always keep in containers of the same material as the original. Packing materials must be tested for durability before use. Keep container tightly closed in a dry and well-ventilated place. If possible, keep in the original container. Do not use food containers because of the risk of confusion. Containers which are opened must be carefully resealed.
Specific end use(s)	Apart from the uses mentioned in section 1 no other specific uses are stipulated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure limits	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Personal protective equipment	
Respiratory protection	In case of insufficient ventilation wear respirators and components tested and approved under appropriate government standards. Half masks according to EN 140 or full masks according to EN 136, with filters according to EN 143-P1.
Hand protection	Handle with suitable protective gloves. Gloves must be inspected prior to use. Damaged and worn protective gloves should be replaced immediately. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and Good Laboratory Practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Completely unsuitable are gloves made of fabric or leather.
Eye protection	Safety glasses with side-shields conforming to EN166 U.
Skin and body protection	Long sleeved clothing. Special body protection generally not required.
Hygiene measures	Handle in accordance with Good Laboratory Practice. Do not eat, drink or smoke when handling this product. Keep away from food and drink. Avoid contact with eyes and skin. Remove contaminated and soaked clothing immediately. Wash hands thoroughly after handling.
Limitation of environmental exposure	Prevent further leakage or spillage if safe to do so.
Limitation of end-user exposure	Avoid formation of dust and aerosols. Avoid breathing vapors, mist or gas. Remove all sources of ignition.



9. PHYSICAL AND CHEMICAL PROPERTIES

Form	White, powder.
Color	Colorless.
Odor	No data available.
Ph value	Max. pH 8.5 at 25°C.
Boiling point	No data available.
Melting point	No data available.
Flash point	No data available.
Autoinflammability	No data available.
Explosion hazard	No data available.
Vapor pressure	No data available.
Relative density	No data available.
Water solubility	Soluble in water.

10. STABILITY AND REACTIVITY

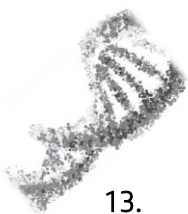
Reactivity	No data available.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	None under normal processing.
Conditions to avoid	High pressure and temperatures. Stable under regular laboratory conditions. See section 7.
Materials to avoid	Strong acids, oxidation and reducing agents.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No data available.

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects	
Acute toxicity	No data available.
Corrosive and irritant effects	No data available.
Eye contact	No data available.
Respiratory or skin sensitization	No data available.
Aspiration hazard	No data available.
Carcinogenicity, mutagenicity and toxicity to reproduction	No data available.
General remarks	When used and handled according to instructions, the product does not cause harmful effects according to our experience and current information.

12. ECOLOGICAL INFORMATION

Mobility in soil	No data available.
Persistence and degradability	No data on biological and abiotic degradation are available for the components of the product.
Bioaccumulative potential	No data available.
Ecotoxicity	No data available.
Results of PBT and vPvB assessment	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
Other adverse effects	No data available.
General remarks	When used and handled according to instructions, the product does not cause harmful effects according to our experience and current information.


**13. DISPOSAL CONSIDERATIONS**

Product	Waste must be disposed of in accordance with federal, state and local environmental control regulations.
Packaging	Residues in packages should be removed, preferably by rinsing with water, and after complete emptying in accordance with the regulations for waste disposal. Packaging which is not completely emptied must be disposed of in the form as determined by the regional waste disposal company.

14. TRANSPORT INFORMATION

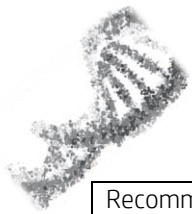
This substance is considered to be non-hazardous for transport.

15. REGULATORY INFORMATION

Labeling according to EU guidelines	
Chemical safety assessment according to Regulation (EC) No 1907/2006	Substance safety assessments (CSA) according to Article 14 (1) of Regulation (EC) No 1907/2006 (REACH) for the components of the product are neither banned nor restricted
Classification and labeling according to directives 67/548 / EEC (DSD) and 1999/45 /EC (DPD)	Not a hazardous substance or mixture, see section 2.
Classification and labeling according to Regulation (EC) No 1272/2008 (CLP)	Hazardous substance or mixture, see section 2
Pictograms	
Signal word	Warning to Regulation (EC) No. 1272/2008 H-Statements: Hazardous substance or mixture according to Regulation (EC) No. 1272/2008
Full text of H-Statements referred to under sections 2 and 3	
H302	Harmful if swallowed.
Eye Irrit.	Eye irritation.
H319	Causes serious eye irritation.
Skin Irrit.	Skin irritation.
H315	Causes skin irritation.
Full text of R-phrases referred to under sections 2 and 3	
T	Toxic. Acute Toxicity (category 4).
R22	Harmful if swallowed.
R36/38	Irritating to eyes and skin.
Xi	Irritant.
Xn	Harmful.
Special labeling of certain preparations	Neither banned nor restricted.
Approvals and / or restrictions of use	Neither banned nor restricted.
Information on Directive 1999/13 / EC (VOC Directive) on the limitation of VOC emissions	Neither banned nor restricted.

16. OTHER INFORMATION

Training instructions	Accordance with applicable laws and Good Laboratory Practices.
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Recommended use(s) of application	For research use only.
Data sources for the preparation of the safety data sheet:	European Chemical Substances Information System (ESIS) Hazardous substance information system of the trade associations (GESTIS) Hazardous Substances Database (HSDB) - U.S. National Library of Medicine Hommel interactive 4.0 - Handbook of Dangerous Goods CRC Handbook of Chemistry and Physics, 88th Edition, 2007-2008
MSDS Creation Date: 31.05.2019 Revision date: 28.01.2020	
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