Safety Data Sheet

TCR Cbeta1 Antibody (FITC)

Cat#: orb699840

1. Product Information

1.1 Product identifier

Product Name: TCR Cbeta1 Antibody (FITC)

The use of descriptors

SU 24: Scientific research and development

PC 21: Laboratory chemicals

PROC 15: Use as laboratory reagent

Mixture uses advised against

The product should not be used in ways other than those referred to in Section 1.

2. Composition/Information on Ingredient

Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 011-004-00-7 CAS: 26628-22-8 EC: 247-852-1	sodium azide	<0,099	Acute Tox. 2, H300+H330 Acute Tox. 1, H310 STOT RE 2, H373 (ingestion) Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1) EUH032	1

Notes:

Substance with a Union workplace exposure limit.

Full text of all classifications and hazard statements is given in section 16.

3. Hazards Identification

3.1.Classification of the substance or mixture

Classification of the mixture in accordance with Regulation (EC) No 1272/2008

The mixture is not classified as dangerous according to Regulation (EC) No 1272/2008.

Full text of all classifications and hazard statements is given in section 16.

3.2. Label elements

None

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3.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance that meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

4. First Aid Measures

4.1. Description of first aid measures

Take care of your own safety. If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

If inhaled

Terminate the exposure immediately; move the affected person to fresh air.

If on skin

Remove contaminated clothes.

If in eyes

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person.

If swallowed

Rinse out the mouth with clean water. In the event of issues, ask for medical help.

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

If inhaled

Possible irritation of airways, cough, headache.

If on skin

Not expected.

If in eyes

Possible irritation.

If swallowed

Nausea, stomach pain, vomiting, diarrhoea.

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

Symptomatic treatment.

5. Fire Fighting Measures

5.1. Extinguishing media Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with chemical resistant gloves. Use a self-contained breathing apparatus and full-body protective clothing.

6. Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Follow the instructions in Sections 7 and 8.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water.

6.3. Methods and material for containment and cleaning up

Spilled products should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per Section 13.

6.4. Reference to other sections

See Section 7, 8 and 13.

7. Handling and Storage

7.1. Precautions for safe handling

Prevent formation of gases and vapors in concentrations exceeding the occupational exposure limits. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed containers in cold, dry and well-ventilated areas designated for this purpose.

7.3. Specific end use(s)

Monoclonal or polyclonal antibodies, proteins (including lyophilized)

8. Exposure Controls

8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

European Union Commission Directive 2000/39/EC

Substance name (component)	Type	Value	Note
sodium azide (CAS: 26628-22-8)	OEL 8 hours	0,1 mg/m³	Skin
	OEL 15 minutes	0,3 mg/m³	

8.2. Exposure controls

Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

Protective goggles.

Skin protection

Hand protection: Protective gloves resistant to the product.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Thermal hazard

Not available.

Environmental Exposure Controls

Observe usual measures for protection of the environment, see Section 6.2.

9. Physical and Chemical Properties

Physical state: liquid

Color: not available

Odor: without fragrance

Melting point/freezing point: data not available

Boiling point or initial boiling point and boiling range:100 °C

Flammability: data not available

Lower and upper explosion limit: data not available

Flash point: data not available

Auto-ignition temperature: data not available

Decomposition temperature: data not available

pH:data not available

Kinematic viscosity: data not available

Solubility in water: soluble

Partition coefficient n-octanol/water (log value): data not available

Vapor pressure data: not available

Density and/or relative density

Density: 1 g/cm³ at 20 °C

Relative vapor density: data not available

Particle characteristics: data not available

10. Stability and Reactivity

10.1. Reactivity

The mixture is not reactive under normal conditions of use and storage. Sodium azide can react with metals contained in sewage to form lead or copper azide, which can explode on impact. When reacting with acids, sodium azide can release highly toxic hydrogen azide acid / hydrogen azide gas.

10.2. Chemical stability

The product is stable under normal conditions.

10.3. Possibility of hazardous reactions

Sodium azide can react with metals contained in sewage to form lead or copper azide, which can explode on impact.

10.4. Conditions to avoid

The product is stable and no degradation occurs under normal use. Protect against flames, sparks, overheating and against frost.

10.5. Incompatible materials

Protect against strong acids, bases and oxidizing agents.

10.6. Hazardous decomposition products

Not developed under normal uses. Dangerous outcomes such as carbon monoxide and carbon dioxide are formed at high temperatures and in fire.

11. Toxicological Information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

Based on available data the classification criteria are not met.

11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

12. Ecological Information

Hazards: Unknown if substance is hazardous to water and ground water.

13. Disposal Considerations

Waste Disposal Route: Dispose according to local, state and federal regulations

14. Transport Information

No information

15. Regulatory Information

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive

76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended.

15.2. Chemical safety assessment

not available

16. Other Information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. Biorbyt shall not be held liable for any damage resulting from handling or from contact with the above product.

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