

SAFETY DATA SHEET

PART I

PRODUCT IDENTITY

Recombinant Protein

COMPANY IDENTITY

ABclonal Biotechnology Co.,Ltd

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PART II

HAZARDOUS IDENTIFICATION:

Classification of the substance or mixture

GHS classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable liquids (Category 2), H225

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 4), H332

Acute toxicity, Dermal (Category 4), H312

Eye irritation (Category 2A), H319

GHS Label elements, including precautionary statements



Pictogram

Signal word

Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour.

H302+ H312+ H332 Harmful if swallowed, in contact with skin or if inhaled.

H319 Causes serious eye irritation.

Precautionary statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking

P233 Keep container tightly closed.

P240 Ground/bond container and receiving equipment.

P241 Use explosion-proof electrical/ ventilating/ lightling/ equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.

P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312 Call a POISON CENTER or doctor/ physician if you feel unwell.

P322 Specific measures (see supplemental first aid instructions on this label).

P330 Rinse mouth.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

P363 Wash contaminated clothing before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P403 + P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/ container to an approved waste disposal plant.

PART III

COMPOSITION/INFORMATION ON INGREDIENTS:

Acetonitrile	Cas# 75-05-8	30-40%
Trifluoroacetic Acid	Cas# 76-05-1	0.1%
Recombinant Protein		60%-70%

This product is not on the list of substances of high concern for SVHC in REACH.

PART IV

FIRST AID MEASURES:

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Consult a physician.

In case of skin contact:

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact:

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

PART V

FIRE FIGHTING MEASURES:

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special hazards arising from the substance or mixture

Emits toxic fumes under fire conditions.

Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

PART VI

ACCIDENTAL RELEASE MEASURES:

Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see part VIII.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations.

PART VII

HANDLING AND STORAGE:

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use explosion-proof equipment. Keep away from sources of ignition – No smoking. Take measures to prevent the build up of electrostatic charge. Use only in area provided with exhaust ventilation. Wear a lab coat and gloves.

Conditions for safe storage, including any incompatibilities

Keep container tightly closed, and in a dry and well-ventilated area. Store at $\leq -20^{\circ}\text{C} \sim -80^{\circ}\text{C}$. Containers which are opened must be carefully resealed.

PART VIII

EXPOSURE CONTROLS/PERSONAL PROTECTION:

Components with workplace control parameters

Acetonitrile – TWA: 220 ppm 34 mg/m³, USA. NIOSH Recommended Exposure Limits.

STEL: 60 ppm 105 mg/m³, USA. OSHA-TABLE Z-1 Limits for Air Contaminants-1910.1000

Exposure Controls

Appropriate engineering controls

Use in a fume hood where applicable. Ensure all engineering measures described under PART VII of SDS are in place.

Ensure laboratory is equipped with a safety shower and eye wash station.

Personal protection

-**Eye protection:** Laboratory safety goggles.

-**Hands:** Chemical resistant gloves.

-**Skin:** Laboratory protective clothing.

-**Respiratory:** Fume hood or in areas with adequate ventilations.

PART IX

PHYSICAL AND CHEMICAL PROPERTIES:

Appearance:	Lyophilized powder or Liquid.
Odor:	Not available
Odor threshold:	Not available
pH:	Not available
Melting/freezing point:	Not available

Initial boiling point and boiling range:	Not available
Flash point:	Not available
Evaporation rate:	Not available
Flammability (solid, gas):	Not available
Upper/lower flammability or explosive limits:	Not available
Vapor pressure:	Not available
Relative density:	Not available
Water solubility:	Soluble
Solubility in other solvents:	Not available
Partition coefficient:	Not available
Autoignition temperature:	Not available
Decomposition temperature:	Not available
Viscosity:	Not available

PART X

CHEMICAL STABILITY AND REACTIVITY:

Reactivity: No information available

Chemical Stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: Hazardous reactions will not occur under normal transport or storage conditions.

Conditions to avoid: Heat, flames and sparks. Extremes of temperature and direct sunlight.

Incompatibility materials: Acids, bases, oxidizing agents, reducing agents, alkali metals.

Hazardous decomposition: In combustion, acetonitrile may emit toxic fumes such as hydrogen cyanide (hydrocyanic acid), carbon dioxide, carbon monoxide or oxides of nitrogen.

PART XI

TOXICOLOGICAL INFORMATION:

Acute toxicity:

Eyes: May cause eye irritation.

Skin: May cause skin irritation.

Inhalation: May cause irritation of mucous membranes and upper respiratory tract.

Ingestion: May be harmful if swallowed.

Long term effects:

Carcinogenic effects: No information available

Mutagenic effects: No information available

Reproduction toxicity: No information available

Teratogenic effects: No information available

PART XII

ECOLOGICAL INFORMATION:

No information available

PART XIII

DISPOSAL CONSIDERATIONS:

In accordance with local and national regulations.

PART XIV

TRANSPORT INFORMATION:

UN number: Acetonitrile solution-1648, Trifluoroacetic acid-2699

Class: Acetonitrile solution-3, Trifluoroacetic acid-8

Packing group: Acetonitrile solution-II, Trifluoroacetic acid-I

Environmental hazards: Does not meet the criteria for classification as hazardous for transport.

PART XV

REGULATORY INFORMATION:

This safety datasheet complies with the requirements of Regulation (EC) No. 453/2010.

Safety, health and environmental regulations

TSCA: Not applicable.

SARA 313: Not applicable.

SARA 311/312: Not applicable.

CERCLA Reportable Quantity: Not applicable.

California Proposition 65: Not applicable.

Hazardous Chemicals List (Rev. 2015): Acetonitrile and Trifluoroacetic acid on the list.

List of precursor chemicals (Rev. 2015): Not on the list.

List of explosive chemicals (Rev. 2017): Not on the list.

PART XVI

OTHER INFORMATION:

SDS Last revision Date: April 29, 2024

Disclaimer: Not for Human use.

Further Information:

The above information is believed to be correct but only used as a guide for experienced personnel. ABclonal Technology shall not be liable for any damage resulting from the handling or from contact with above product.

End of Safety Data Sheet