

**Safety Data Sheet**

acc. to OSHA HCS

Printing date 09/08/2025

Version No: 1.01

Reviewed on 09/08/2025

**\* 1 Identification****Product identifier**

Please refer to attached coversheet for the exact product list

**Trade name:** PureCube Streptactin Variants**Recommended use:** Chemical for R&D**Restrictions on use:** No further relevant information available.**Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Cube Biotech Inc.  
987 Old Eagle School Road  
STE 709  
Wayne  
PA 19087  
USA  
Phone: +1.484.270.6557  
Fax: Fax +1.484.368.3558  
E-Mail: [contact@cube-biotech.com](mailto:contact@cube-biotech.com)

**Emergency telephone number:** +1.484.270.6557 (during business hours)**\* 2 Hazard(s) identification****Classification of the substance or mixture**

The product is not classified, according to the Globally Harmonized System (GHS).

**Label elements****GHS label elements** Void**Hazard pictograms** Void**Signal word** Void**Hazard statements** Void**Other hazards****Results of PBT and vPvB assessment****PBT:** This product does not contain any substances  $\geq 0.1\%$  that have been assessed as PBT.**vPvB:** This product does not contain any substances  $\geq 0.1\%$  that have been assessed as vPvB.**3 Composition/information on ingredients****Chemical characterization:** Mixtures**Dangerous components:** Void**4 First-aid measures****Description of first aid measures****General information:**

No special measures required.

If symptoms persist consult doctor.

**After inhalation:** Supply fresh air.**After skin contact:** Generally the product does not irritate the skin.**After eye contact:**

Rinse opened eye for several minutes under running water.

Remove contact lenses, if present and easy to do. Continue rinsing.

**After swallowing:** Rinse mouth.**Information for doctor:****Most important symptoms and effects, both acute and delayed**

No further relevant information available.

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## Indication of any immediate medical attention and special treatment needed

No further relevant information available.

## 5 Fire-fighting measures

### Extinguishing media

#### Suitable extinguishing agents:

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. Use fire fighting measures that suit the environment.

**For safety reasons unsuitable extinguishing agents:** Water with full jet

#### Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire.

In case of fire, the following can be released:

Carbon monoxide

Carbon dioxide

Nitrogen oxides (NO<sub>x</sub>)

#### Advice for firefighters

**Protective equipment:** Wear self-contained respiratory protective device.

#### Additional information

Cool endangered receptacles with water spray.

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

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Wear protective clothing.

**Environmental precautions:** Do not allow to enter sewers/ surface or ground water.

#### Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of the collected material according to regulations.

#### 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.

## 7 Handling and storage

### Handling:

**Precautions for safe handling** Prevent formation of aerosols.

**Information about protection against explosions and fires:** No special measures required.

### Conditions for safe storage, including any incompatibilities

#### Storage:

**Requirements to be met by storerooms and receptacles:** Store only in the original receptacle.

**Information about storage in one common storage facility:** Store away from oxidizing agents.

**Further information about storage conditions:** Store in cool, dry conditions in well sealed receptacles.

**Specific end use(s)** No further relevant information available.

## 8 Exposure controls/personal protection

**Additional information about design of technical systems:** No further data; see section 7.

### 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.

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**Exposure controls****Personal protective equipment:****General protective and hygienic measures:**

Do not eat, drink, smoke or sniff while working.

Keep away from foodstuffs, beverages and feed.

The usual precautionary measures for handling chemicals should be followed.

**Breathing equipment:** Not necessary if room is well-ventilated.**Protection of hands:**

Protective gloves and protective skin cream

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

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. 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:**

Tightly sealed goggles

**Body protection:** Protective work clothing**Limitation and supervision of exposure into the environment** No further relevant information available.

## \* 9 Physical and chemical properties

**Information on basic physical and chemical properties****General Information****Appearance:****Form:**

Suspension

**Color:**

Different according to coloring

Agarose: whitish

MagBeads: black

**Odor:**

Like alcohol

**Odor threshold:**

Not determined.

**pH-value at 20 °C (68 °F):**

6 - 8

**Change in condition****Melting point/Melting range:**

Not determined.

**Boiling point/Boiling range:**

Not determined.

**Flash point:**

Not determined.

**Flammability:**

Not applicable.

**Auto ignition temperature:**

Not determined.

**Decomposition temperature:**

Not determined.

**Danger of explosion:**

Product does not present an explosion hazard.

**Explosion limits:****Lower:**

Not applicable.

**Upper:**

Not applicable.

**Oxidizing properties**

No

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**Vapor pressure:** Not determined.

**Density:** Not determined.

**Relative density** Not determined.

**Vapor density** Not determined.

**Evaporation rate** Not determined.

**Solubility in / Miscibility with Water:** Soluble.

**Partition coefficient (n-octanol/water):** Not determined.

**Viscosity:**

**Dynamic:** Not determined.

**Kinematic:** Not determined.

**Solvent content:**

**VOC content:** 0.00 %

**Other information**

**Molecular weight** Not applicable.

## 10 Stability and reactivity

**Reactivity** No further relevant information available.

**Chemical stability** No decomposition if used and stored according to specifications.

**Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**Possibility of hazardous reactions** No dangerous reactions known.

**Conditions to avoid** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** No dangerous decomposition products known.

## \*11 Toxicological information

**Information on toxicological effects**

**Acute toxicity:** Based on available data, the classification criteria are not met.

**Primary irritant effect:**

**on the skin:** Based on available data, the classification criteria are not met.

**on the eye:** Based on available data, the classification criteria are not met.

**Sensitization:** Based on available data, the classification criteria are not met.

**Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

**Carcinogenic categories**

**IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

**NTP (National Toxicology Program)**

None of the ingredients is listed.

**OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

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## \* 12 Ecological information

### Toxicity

**Aquatic toxicity:** No further relevant information available.

**Persistence and degradability:** No further relevant information available.

### Behavior in environmental systems:

**Bioaccumulative potential** No further relevant information available.

**Mobility in soil** No further relevant information available.

**Other adverse effects** No further relevant information available.

## 13 Disposal considerations

### Waste treatment methods

**Recommendation:** Must be specially treated adhering to official regulations.

### Uncleaned packagings

**Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

### UN-Number

DOT, ADR/RID/ADN, IMDG, IATA

Not regulated for Transport

### UN proper shipping name

DOT, ADR/RID/ADN, IMDG, IATA

Not regulated for Transport

### Transport hazard class(es)

DOT, ADR/RID/ADN, IMDG, IATA

Not regulated for Transport

### Class

### Packing group

DOT, ADR/RID/ADN, IMDG, IATA

Not regulated for Transport

### Environmental hazards:

Not applicable.

### Special precautions for user

Not applicable.

### Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code:

Not applicable.

### Transport/Additional information:

Not dangerous according to the above specifications.

### UN "Model Regulation":

Not regulated for Transport

## \* 15 Regulatory information

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

No further relevant information available.

### SARA

#### Section 355 (extremely hazardous substances):

None of the ingredients is listed.

#### Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

#### TSCA (Toxic Substances Control Act) Inventory:

All components have the value ACTIVE.

#### Hazardous Air Pollutants

None of the ingredients is listed.

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**Proposition 65****Chemicals known to cause cancer:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

**Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

**Chemicals known to cause developmental toxicity:**

None of the ingredients is listed.

**New Jersey Right-to-Know List:**

CAS: 56-81-5 glycerol

CAS: 60-00-4 edetic acid

CAS: 26628-22-8 sodium azide

**New Jersey Special Hazardous Substance List:**

CAS: 26628-22-8 sodium azide: R3

**Pennsylvania Right-to-Know List:**

CAS: 56-81-5 glycerol

CAS: 60-00-4 edetic acid

CAS: 26628-22-8 sodium azide

**Pennsylvania Special Hazardous Substance List:**

CAS: 60-00-4 edetic acid: E

CAS: 26628-22-8 sodium azide: E

**Carcinogenicity categories****EPA (Environmental Protection Agency)**

None of the ingredients is listed.

**TLV (Threshold Limit Value)**

None of the ingredients is listed.

**NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

**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.

**Department issuing SDS:**

Date of preparation / last revision 09/08/2025 / 1.00

**Abbreviations and acronyms:**

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

MARPOL: (from Marine Pollutant) International Convention for the Prevention of Marine Pollution from Ships

IBC Code: International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk

UN: United Nations (also UNO: United Nations Organization)

NOEC: No Observed Effect Concentration

OECD: Organisation for Economic Co-operation and Development

ASTM: American Society for Testing and Materials

WAF: Water Accommodated Fraction

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

DOT: US Department of Transportation

IATA: International Air Transport Association

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)

VOC: Volatile Organic Compounds (USA, EU)

PBT: Persistent, Bioaccumulative and Toxic

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vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit

**Sources**

This Safety Data Sheet is based on a combination of internal technical data, information on raw materials, and generally accessible sources in the field of chemical safety, including publicly available databases such as those of the European Chemicals Agency (ECHA).  
European Chemicals Agency, <https://chem.echa.europa.eu>

**\* Data compared to the previous version altered.**

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