

Safety Data Sheet

Section 1: Identification

Product identifier

Product Name: GenCrispr NLS-Cas9-D10A Nickase

Product Code: Z03390-10/Z03390-50/Z03390-100

Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Hazard Communication & Compliance

Details of the supplier of the safety data sheet

Manufacturer: GenScript
860 Centennial Ave.
Piscataway, NJ 08854 United States

www.genscript.com

product@genscript.com

Telephone (General): 1-732-885-9188

Emergency telephone number

Manufacturer: 1-877-436-7274

Section 2: Hazards identification

According to OSHA 29 CFR 1910.1200 HCS

Emergency Overview: White lyophilized powder of protein. Toxicological properties of components have not been fully investigated.

Health Effects: Not classified

Inhalation: Not known to present an inhalation hazard under normal use.

Skin: May cause irritation.

Eyes: May cause serious eye irritation.

Ingestion: May be harmful if swallowed.

Chronic Effects/Target Organ Effects: None known.

Medical Conditions Aggravated By Exposure: None known.

Environmental Effects: None known.

Section 3 - Composition/Information on Ingredients

Components	CAS-No	EINECS-No	Weight %
Glycerol	56-81-5	200-578-6	0.5

The product contains no substances which at their given concentration, are considered to be hazardous to health.

Section 4: First-Aid Measures

Inhalation	Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.
Skin	In case of contact with substance, immediately flush skin with running water for at least 20 minutes. Wash skin with soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.
Eye	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Do NOT induce vomiting. If person is drowsy or unconscious and vomiting, place on the left side with head down. Seek medical attention.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media: Water spray. Carbon dioxide (CO₂). Foam. Dry chemical.

Special protective equipment for firefighters

Standard procedure for chemical fires.

Section 6 - Accidental Release Measures

Personal Precautions	Wear appropriate protective equipment including respiratory protection as conditions warrant. Do not touch or walk through spilled material. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.
Emergency Procedures	As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area) Keep out of low areas. Keep unauthorized personnel away. Stay upwind. Ventilate closed spaces before entering.

Methods for cleaning up

Stop leak if you can do it without risk. All equipment used when handling the product must be grounded. Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.

Use clean non-sparking tools to collect absorbed material. A vapor suppressing foam may be used to reduce vapors. **LARGE SPILLS:** Dike far ahead of liquid spill for later disposal.

Environmental precautions

Avoid run off to waterways and sewers.

Section 7 - Handling and Storage

Handling: Keep away from heat and ignition sources – No Smoking. Product can accumulate static charge by flow or agitation. Bond and ground equipment when transferring from one vessel to another. Empty containers retain product residue and may be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat, flame, sparks or other ignition sources. They may explode and cause injury or death. Use only with adequate ventilation. Do not enter confined spaces such as tanks or pits without following proper entry procedures. **Conditions for safe storage, including any incompatibilities**

Storage: Store at -20°C, well-ventilated place away from heat and ignition sources.

Keep container closed when not in use. Keep away from incompatible materials.

Incompatible Materials or: Keep away from heat, ignition sources oxidizers and strong acids. **Ignition Sources**

Section 8 - Exposure Controls/Personal Protection

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract, May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

Conditions Aggravated by Exposure: The toxicological properties have not been thoroughly investigated.

Section 9 - Physical and Chemical Properties**Appearance**

Physical State

Liquid

Color	Colorless
Odor	Odorless
Property	
Flash point:	None
Flammability (solid, gaseous)	Not applicable
Danger of explosion	Product does not present an explosion hazard.
Solubility in Water	Fully miscible
Density	Not determined
Relative density	Not determined
Vapour density	Not determined
Evaporation rate	Not determined

Section 10: Stability and Reactivity

Reactivity

No dangerous reaction known under conditions of normal use.

Chemical stability

Stable under normal temperatures and pressures.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to avoid

High temperatures, sparks, open flames and live electrical circuits.

Incompatible materials

Oxidizing agents, strong acids.

Hazardous decomposition products

None.

Section 11 - Toxicological Information

Route of Exposure

Skin Contact	May cause skin irritation
Skin Absorption	May be harmful if absorbed through the skin
Inhalation	Material may be irritating to mucous membranes and upper respiratory tract, May be harmful if inhaled.
Ingestion	May be harmful if swallowed
Conditions Aggravated by Exposure	The toxicological properties have not been thoroughly investigated.

Section 12 - Ecological Information

Toxicity	Material data lacking.
Persistence and degradability	Material data lacking.
Bioaccumulative potential	Material data lacking.
Mobility in Soil	Material data lacking.
Other adverse effects	No studies have been found.
Other Information	No data is available on the adverse effects of this material on the environment. Aquatic toxicity values are expected to be in the range of 1 - 10 mg/l based upon data from components and similar products

Section 13 - Disposal Considerations

Product waste: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Packaging waste: Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.

Section 14 - Transport Information

Special precautions for user	None specified
Transport in bulk according	None specified
Proper Shipping Name	No dangerous good in sense of these transport regulations
Hazard Class	None
Subsidiary class	None
Packing group	None
UN-No	None

Section 15 - Regulatory Information

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

US Regulations:

This product meets the following SARA 311/312 hazard categories: none.

This product contains the following SARA 302 Extremely Hazardous Substances: none.

This product contains the following SARA 313 Toxic Chemicals: none.

This product contains the following CERCLA Hazardous Substances: none.

The components of this product are listed on TSCA.

Canadian Regulations:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and it contains the information required by the CPR.

This product meets WHMIS classification D2B.

Components of this product are listed on the DSL.

Section 16 - Other Information

Date Created	01/05/2015
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