

Material Safety Data Sheet

Section 1- Product Information

Product Name retlirafusp

Catalog No. XXXXXX

Identified uses Biochemical research/analysis

Company BioMetas (Shanghai) Limited

2F, 330 Aidisheng Road Zhangjiang High Tech Park

Pudong New Area Shanghai, China

Section 2- Composition/information on ingredients

No components need to be disclosed according to the applicable regulations.

Section 3- Hazards Identification

HMIS Rating	
Health	0
Flammability	0
Reactivity	0
NFPA Rating	
Health	0
Flammability	0
Reactivity	0

For additional information on toxicity, please refer to Section 11.

Section 4- First Aid Measures

Oral Exposure If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Inhalation Exposure If inhaled, remove to fresh air. If breathing becomes

difficult, call a physician.

Dermal Exposure In case of skin contact, flush with copious amounts of

water for at least 15 minutes. Remove contaminated

clothing and shoes. Call a physician.

Eye Expose In case of contact with eyes, flush with copious

amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with

fingers. Call a physician.

Section 5- Fire Fighting Measures

Flash Point Not available
Autoignition Temp Not available
Flammability Not available

Extinguishing Media Suitable Water spray. Carbon dioxide, dry chemical powder, or

appropriate foam.

Fire Fighting Protective Equipment Wear self-contained breathing apparatus and

protective clothing to prevent contact with skin and

eyes.

Specific Hazard(s) Emits toxic fumes under fire conditions

Section 6- Accidental Release Measures

Procedure to Be Followed in Case of Leak or Spill

Procedure(s) of Personal Precaution(s)

Methods for Cleaning Up

Evacuate area

Wear respirator, chemical safety goggles, rubber

boots, and heavy rubber gloves

Sweep up, place in a bag and hold for waste disposal.



Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7- Handling and Storage

Handling

User Exposure Avoid inhalation. Avoid contact with eyes, skin, and

clothing. Avoid prolonged or repeated exposure.

Storage Tightly closed.

Storage at -80°C. Transport with dry ice.

Section 8- Exposure Controls/Personal Protection Equipment

Engineering Controls Mechanical exhaust required

Personal Protective Equipment

Respiratory Use respirators and components tested and approved

under appropriate government standards such as NIOSH (US) or CEN (EU). Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1

(EN 143) respirator.

Other Wear appropriate government approved respirator,

chemical-resistant gloves, safety goggles, other

protective clothing.

General Hygiene Measures Wash thoroughly after handling

Section 9- Physical and Chemical Properties

Appearance

Physical State Form: liquid

Property

Not available BP/BP Range Not available MP/MP Range Not available Freezing Point Not available Vapor Pressure Not available Vapor Density Not available Saturated Vapor Conc. Not available Not available SG/Density **Bulk Density** Not available Odor Threshold Not available Volatile% Not available VOC Content Not available Not available Water Content Solvent Content Not available **Evaporation Rate** Not available Viscosity Not available Not available Surface Tension Partition Coefficient Not available Decomposition Temp. Not available Flash Point Not available **Explosion Limits** Not available Flammability Not available

Section 10- Stability and Reactivity

Stability

Stable Stable

Hazardous Decomposition Products

Autoignition Temp

Refractive Index

Optical Rotation Miscellaneous Data

Solubility

Hazardous Decomposition Products Nature of decomposition products not known

Not available

Not available Not available

Not available

Not available



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
laceation	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.
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Section 12- Ecological Information	
Eco-toxicity	
Toxicity of The Products of Biodegradation	The product itself and its products of degradation are not toxic.
Section 13- Disposal Considerations	
Appropriate Method of Disposal	Waste must be disposed of in accordance with
federal,	
	state and local environmental control regulations.
Section 14- Transport Information	
DOT	
Proper Shipping Name	None
Non-Hazardous for Transport	This substance is considered to be non-hazardous for
	transport.
IATA	
Non-Hazardous for Air Transport	Non-hazardous for air transport
Section 15- Regulatory Information	
United States Regulatory information	
SARA Listed	No
Canada Regulatory Information	
WHMIS Classification	This product has been classified in accordance with
	the hazard criteria of the CPR, and the MSDS
DO	contains all the information required by the CPR.
DSL	No
NDSL	No
Section 16- Other Information	
Disclaimer	For research use only

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product.