修订日期 Revision Date: 20-Nov-2026

第1节 物质与公司识别 Identification of Substance / Company

产品名称	Hemoglobin beta chain [013-018]
产品货号	300099
化学式	$C_{32}H_{50}N_8O_8$
供应商	纽普生物 (NovoPro Bioscience Inc.) 电话 Phone: 021-619 4 1042 传真 Fax: (021)619 4 1042

第2节 组成与成分信息 Composition / Information on Ingredients

物质/制剂	Substance
成分名称	Hemoglobin beta chain [013-018]
SARA 313	No

第3节 危险性识别 Hazards Identification

危险性分类	This substance/mixture is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

GHS Label elements, including precautionary statements

信号词	Not classified
危险性说明	None.
防范说明	None.
补充危险信息	May produce an allergic reaction
其他未分类危险 (HNOC)	Not applicable.

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

第4节 急救措施 First Aid Measures

经口暴露	If swallowed, wash out mouth with water provided person is conscious. Call a physician.
吸入暴露	If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
皮肤暴露	In case of skin contact, flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes. Call a physician.
眼睛暴露	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.

第5节 消防措施 Fire Fighting Measures

闪点	Not available
自燃温度	Not available
可燃性	Not available
灭火介质	
适用介质	Carbon dioxide, dry chemical powder, or appropriate foam. Water spray
消防措施	
防护装备	Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
特殊危险	Emits toxic fumes under fire conditions.

第6节 意外泄漏处理 Accidental Release Measures

泄漏或溢出时的处理程序	Evacuate area
个人防护措施	Wear respirator, chemical safety goggles, rubber boots, and heavy rubber gloves
清理方法	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.

第7节 操作处置与储存 Handling and Storage

操作处置	
使用者暴露	Avoid inhalation. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure.
储存	
适用介质	Keep tightly closed
-20℃ 储存	

第8节 暴露控制与个人防护 Exposure Controls / Personal Protection

工程控制	Mechanical exhaust required
个人防护装备	
呼吸防护	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.
其他	Wear appropriate government approved respirator, chemical-resistant gloves, safety goggles, other protective clothing.
一般卫生措施	Wash thoroughly after handling

第9节 理化性质 Physical and Chemical Properties

外观	
物理状态	粉末 Powder
性质	
分子量	674.8
pH 值	Not available
沸点/沸程	Not available
熔点/熔程	Not available
凝固点	Not available
蒸气压	Not available
蒸气密度	Not available
饱和蒸气浓度	Not available
比重/密度	Not available
堆密度	Not available
气味阈值	Not available
挥发物含量	Not available
VOC 含量	Not available
水分	Not available
溶剂含量	Not available
蒸发速率	Not available
黏度	Not available
表面张力	Not available

分配系数	Not available
分解温度	Not available
Flash Point	Not available
爆炸极限	Not available
Flammability	Not available
Autoignition Temp	Not available
折射率	Not available
旋光度	Not available
其他数据	Not available
溶解性	Not available

第10节 稳定性与反应性 Stability and Reactivity

稳定性	
是否稳定	Stable
危险分解产物	
危险分解产物	Nature of decomposition products not known.
危险聚合	
危险聚合	Will not occur

第11节 毒理学信息 Toxicological Information

暴露途径	
皮肤接触	Avoid contact with skin.
眼睛接触	Avoid contact with eyes. May cause slight irritation.
吸入	Avoid breathing vapors or mists. May cause irritation of respiratory tract.
摄入	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
暴露加重的疾病	The toxicological properties have not been thoroughly investigated.

This product is for experimental uses only. The product has not been completely analyzed and all of the hazards may not be known.

第12节 生态学信息 Ecological Information

无可用数据。

第13节 废弃处置 Disposal Considerations

物质或制剂的适当处置方法	Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

第14节 运输信息 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

第15节 法规信息 Regulatory Information

US Classification and Label Text	
US Statements	Caution: The chemical, physical, and toxicological properties of this product have not been thoroughly investigated. Exercise due care.
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 contains all the information required by the CPR.
DSL	No
NDSL	No

第16节 其他信息 Other Information

NovoPro corporation MSDS is believed to be correct but only used as a guide for experienced personnel, NovoPro shall not be held liable for any damage resulting from the handling or from contact with the above product.