修订日期 Revision Date: 23-Jul-2024

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

| | |
|---|---|
| 产品名称 | pcDNA3.1-ARMC5(human) vector |
| 产品货号 | V023624 |
| 化学式 | Not available |
| 供应商 | 纽普生物 (NovoPro Bioscience Inc.)<br>电话 Phone: 021-619 4 1042<br>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 | pcDNA3.1-ARMC5(human) vector |
| 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.<br>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 | 冻干粉末 Lyophilized powder |
| 性质 | |
| 分子量 | Not available |
| 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.