

Material Safety Data Sheet

第 1 部分 产品信息

产品名称: 百日咳毒素
货号: abs42024900
CAS 号: 70323-44-3

第 2 部分 危害识别

2.1 物质或混合物的分类

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Acute toxicity, Oral (Category 2), H300

Acute toxicity, Inhalation (Category 2), H330

Acute toxicity, Dermal (Category 2), H310

Eye irritation (Category 2A), H319

2.2 全球统一制度 (GHS) 标签要素, 包括防范说明

Pictogram



Signal Word

Danger

危害声明

H300 + H310+ H330

Fatal if swallowed, if in contact with skin or if inhaled

H319

Causes serious eye irritation.

防范说明

P260

Do not breathe dust/fume/gas/vapors/spray.

P264

Wash skin thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P271

Use in a well-ventilated area.

P280

Wear protective gloves/ protective clothing/ eye protection.

P301 + P330 + P316

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth.

P302 + P352

IF ON SKIN: Wash with plenty of soap and water

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P304 + P340 + P316

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable to breathing. Get medical advice/attention.

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.

P337 + P317

If eye irritation occurs: Get medical help.

P361 + P364

Take off immediately all contaminated clothing and wash before reuse

P403 + P233

Store in a well-ventilated place. Keep container tightly closed.

2.3 未另做分类（HNOC）或全球统一制度（GHS）未涵盖的危害

Biohazard. Handle as if capable of transmitting infectious agents.

第3部分 成分/组成信息

产品

Component	CAS No.	Percent (%)
Pertussis Toxin	70323-44-3	≥99 %, Salt-Free

第4部分 急救措施

4.1 急救措施说明

一般建议

Move affected person out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

若吸入

Remove victim to fresh air and keep at rest in a position that is comfortable for breathing. Get medical advice/attention.

若皮肤接触

Wash with plenty of soap and water. Consult a physician.

若眼部接触

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. Consult a physician.

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若误吞

Immediately call a POISON CENTER or doctor/physician if you feel unwell. Rinse mouth with water. Never give anything by mouth to an unconscious person.

4.2 最主要的急性和延迟性症状及影响

The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.

4.3 所需的即时医疗救治和特殊治疗说明对症治疗说明

No data available

第5部分 消防措施

5.1 灭火介质

适用的灭火介质

Use extinguishing media appropriate to surrounding fire conditions.

5.2 物质或混合物燃烧产生的特殊危害

Not flammable or combustible.

5.3 给消防员的建议

Use an approved/certified respirator.

第6部分 泄露应急处理措施

6.1 个人防护、防护设备和应急程序

Wear respiratory protection. Wear appropriate laboratory attire including lab coat, gloves and safety glasses. Nitrile gloves are recommended when handling lyophilized material. Avoid formation of dust and aerosols. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust, vapors, mist or gas.

6.2 环境防护措施

Do not let product enter drains.

6.3 围堵和清理的方法及材料

In case of a spill or a release, take precautions to minimize worker exposure. For spills onto surface areas, use at least a 0.5% sodium hypochlorite solution, and pour onto the contaminated surface allowing for at least thirty minutes of contact and then wipe dry. Autoclaving may be applied to

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contaminated material which is in solution or to which the autoclave steam has access. Autoclaving at $\geq 121^{\circ}\text{C}$, ≥ 15 psi in a validated cycle will render the product safe.

Hold all material for appropriate disposal as described in Section 13 DISPOSAL

CONSIDERATIONS.

第7部分 操作与储存

7.1 安全操作注意事项

Avoid contact with skin and eyes. Wear appropriate laboratory attire including lab coat, gloves and safety glasses. Nitrile gloves are recommended when handling lyophilized material. Avoid formation of dust and aerosols. Ensure adequate ventilation.

7.2 安全储存条件，包括任何不相容性

Store at $2 - 8^{\circ}\text{C}$ prior to reconstitution. DO NOT FREEZE. Keep container tightly closed in a dry and well-ventilated area.

第8部分 接触控制/个体防护

8.1 控制参数

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 暴露控制

适当的工程控制措施

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

个人防护装备

眼睛

Wear safety goggles or glasses.

皮肤

Handle with appropriate gloves. Wear nitrile gloves when handling the product in lyophilized form. Wear appropriate laboratory clothing / lab coat.

呼吸防护

Use respirators and components tested and approved under appropriate government standards; or

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ensure adequate ventilation using engineering controls, such as a biological safety cabinet.

第9部分 物理和化学性质

9.1 物理和化学性质

外观： Form: solid; Color: white

气味： Data not available

气味阈值： Data not available

pH值： Data not available

熔点/凝固点： Data not available

初始沸点/沸程： Data not available

闪点： Data not available

蒸发速率： Data not available

易燃性（固体、气体）： Data not available

上下限易燃或爆炸极限： Data not available

蒸气压： Data not available

蒸气密度： Data not available

相对密度： Data not available

溶解性： Suspension

分配系数： Data not available

自燃温度： Data not available

分解温度： Data not available

粘度： Data not available

第10部分 稳定性和反应性

10.1 反应性

No data available.

10.2 化学稳定性

Stable under recommended storage conditions.

10.3 发生危险反应的可能性

No data available.

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10.4 应避免的条件

No data available.

10.5 不相容物质

No data available

10.6 危险分解物质

No data available

第11部分 毒理学信息

11.1 毒理学效应信息

To the best of our knowledge, the chemical, physical and toxicological properties have not been fully investigated.

急性毒性

No data available

Inhalation: No data available

Dermal: No data available

Oral: No data available

皮肤腐蚀/刺激

No data available

严重眼损伤/刺激

No data available

呼吸或皮肤致敏性

No data available

生殖细胞致突变性

No data available

致癌性

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

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OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

生殖毒性

No data available

特定靶器官毒性-单次暴露

No data available

特定靶器官毒性-重复暴露

No data available

补充信息

Signs and Symptoms of Exposure

No data available

RTECS: XW5883750

LD50 rat, 114 µg/kg iv; LD50 mice, 127 µg/kg iv

Toxicity Data Reference:

Toyota, T, et al., Tohoku J. Exp. Med. 130:105-116, 1980.

Reported changes in insulin secretory response due to intravenous injection of 1 µg /kg in 5 volunteers.

Gill, DM, Microbiol. Rev. 46:86-94, 1982.

Estimated lethal amount for a 100 lb (45.5 kg) human – without treatment or vaccinations – extrapolated from animal studies: 683 µg ip

第12部分 生态学信息

12.1 毒性

No data available.

12.2 持久性和降解性

No data available.

12.3 生物累计潜力

No data available.

12.4 在土壤中的迁移性

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No data available.

12.5 持久性、生物累积性和毒性（PBT）及高持久性、高生物累积性（vPvB）评估结果

No data available

12.6 其他不利影响

No data available.

第13部分 处置注意事项

13.1废物处置：

Dispose of waste in accordance with appropriate federal, state and local regulations or applicable governmental requirements.

第14部分 运输信息

国际航空运输协会（IATA）

UN number: UN3462

Class: 6.1

Packing group: II

Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Pertussis from Bordetella Pertussis)

美国交通部（DOT (US)）

UN number: UN3462

Class: 6.1

Packing group: II

Proper shipping name: Toxins, extracted from living sources, solid, n.o.s. (Pertussis from Bordetella Pertussis)

第15部分 法规信息

职业安全与健康管理局（OSHA）危害

Danger

《超级基金修正及再授权法案》（SARA）302 成分

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 311/312 危害

Acute Health Hazard

加利福尼亚州第65号提案（California Prop. 65）成分

This product does not contain any chemicals known to the State of California to cause cancer, birth

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defects or any other reproductive harm.

第16部分 其他信息

CAUTION – Not fully tested. For research use only. Not for human use.

The preceding information is based on available data and is believed to be correct but does not purport to be all inclusive and should be used as a guide in handling this material. Users should make independent determinations of suitability and completeness of information from all sources to assure proper use and disposal of these materials, the safety and health of employees and customers, and the protection of the environment. The absence of warning must not, under any circumstance, be taken to mean that no hazard exists. List Biological Laboratories, Inc, shall not be held liable for any damage resulting from handling or from contact with the above product.

If you have any questions, please contact info@absin.cn for consultation.

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