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# 宁波海关技术中心

Ningbo Customs District Technology Center

报告编号/No.: 232100005877

## 安全数据单

### Safety Data Sheet

样品名称: 丙烯酰胺  
**Name of Goods:** ACRYLAMIDE  
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## Safety Data Sheet

## 安全数据单

## Section 1 Identification

## 第一节标识

**Edit Foundation:** GHS Eighth Revised Edition

编制依据: 全球化学品统一分类和标签制度(第八修订版, GHS)

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有效期: 见第十六节说明

**Product Name:** ACRYLAMIDE

产品名称: 丙烯酰胺

**UN Proper Shipping Name:** ACRYLAMIDE, SOLID

联合国正式运输名称: 丙烯酰胺, 固态

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## Section 2 Hazard Identification

## 第二节危险标识

**GHS Classification:**

GHS 分类:

Health 健康危害	Environmental 环境危害	Physical 物理危害
Acute Toxicity: Oral-category 3 急性毒性: 经口—第 3 类	Aquatic Toxicity: No Classification 水生毒性: 不分类 Hazardous to the ozone layer:	No Classification 不分类
Skin Corrosion/Irritation: category 2 皮肤腐蚀/刺激: 第 2 类		
Eye Damage/Irritation: category 2 眼损伤/眼刺激: 第 2 类		
Skin Sensitization: category 1 皮肤敏化作用: 第 1 类		

Germ Cell Mutagenicity: category 1B 生殖细胞致突变性: 第 1B 类	No 危害臭氧层: 否	
Carcinogenicity: category 1B 致癌性: 第 1B 类		
Reproductive Toxicity: category 2 生殖毒性: 第 2 类		
Specific Target Organ Toxicity (repeated exposure) : category 1 特定目标器官毒性: 重复接触—— 第 1 类		

**GHS Label:**

**GHS 标签:**

**Symbols:**

符号:



**Signal words: Danger**

信号词: 危险

**Hazard Statements:**

危险说明:

- H301 Toxic if swallowed. 吞咽会中毒。
- H315 Causes skin irritation. 造成皮肤刺激。
- H317 May cause an allergic skin reaction. 可能引起皮肤过敏反应。
- H319 Causes serious eye irritation. 造成严重眼刺激。
- H340 May cause genetic defects. 可能导致遗传性缺陷。
- H350 May cause cancer. 可能致癌。
- H361 Suspected of damaging fertility or the unborn child.  
怀疑对生育能力或胎儿造成伤害。
- H372 Cause damage to organs through prolonged or repeated exposure.  
长期或重复接触会对器官造成伤害。

**Precautionary Statements:**

防范说明:

- P203 Obtain, read and follow all safety instructions before use.  
在使用前获取、阅读并遵循所有安全说明。
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.  
不要吸入粉尘/烟/气体/烟雾/蒸汽/喷雾。
- P264 Wash skin thoroughly after handling. 作业后彻底清洗皮肤。

P270	Do not eat, drink or smoke when using this product. 使用本产品时不要进食、饮水或吸烟。
P272	Contaminated work clothing should not be allowed out of the workplace. 受沾染的工作服不得带出工作场地。
P280	Wear protective gloves/ protective clothing/eye protection/face protective/hearing protection. 戴防护手套/穿防护服/戴防护眼罩/戴防护面具/戴听力保护装置。
P301+P316	IF SWALLOWED: Get emergency medical help immediately. 如误吞咽: 立即紧急就医。
P302+P352	IF ON SKIN:wash with plenty of soap and water. 如皮肤沾染: 用大量肥皂和水清洗。
P305+P351+P338	If in eyes: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 如进入眼睛: 用水小心冲洗几分钟。如戴隐形眼镜并可方便的取出, 取出隐形眼镜。继续冲洗。
P318	IF exposed or concerned, get medical advice. 如接触到或有疑虑, 请就医。
P319	Get medical help if you feel unwell. 如感觉不适, 请就医。
P321	Specific treatment (see the first aid instruction on this label). 专门治疗 (见本标签上的急救说明)。
P330	Rinse mouth. 漱口。
P333+P317	If skin irritation or rash occurs: Get medical advice/attention. 如发生皮肤刺激或皮疹: 请就医。
P337+P317	If eye irritation persists: Get medical help. 如仍觉眼刺激: 请就医。
P362+P364	Take off contaminated clothing and wash it before reuse. 脱掉沾染的衣服, 清洗后方可重新使用。
P405	Store locked up. 存放处须加锁。
P501	Dispose of contents/container in accordance with local regulation. 处置内装物/容器: 按照当地法律规定执行。

### Section 3 Composition/Information on Ingredients

#### 第三节组成/成分信息

Component 组分	CAS Number CAS号	Weight % 质量百分比
Acrylamide 丙烯酰胺	79-06-1	98-99.5
p-hydroxy phenyl ether 对羟基苯甲醚	150-76-5	3ppm-9ppm
Water 水	7732-18-5	0.3-0.8

## Section 4 First-aid Measures

### 第四节急救措施

#### General advice:

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### 一般建议:

请教医生。出示此安全技术说明书给到现场的医生看。

#### Eye:

Flush immediately with plenty of cold water for 15 minutes, while holding eyelids apart. Call a poison center or doctor/physician.

#### 眼睛:

立即用足够的冷水清洗眼睛15分钟,并保持眼睛睁开。呼叫解毒中心或就医。

#### Skin:

Wash exposed skin with soap and water in abundance. Remove contaminated clothing and wash before reuse. Call a poison center or doctor/physician immediately.

#### 皮肤:

立即用肥皂和清水清洗受污染的皮肤。脱掉受污染的衣服并清洗干净后再次使用。立即呼叫解毒中心或就医。

#### Inhalation:

Remove person to fresh air. If respiratory irritation, dizziness, nausea, or unconsciousness occurs, seek immediate medical assistance. If breathing has stopped, give artificial respiration.

#### 吸入:

将接触者移至空气新鲜处。如果呼吸感到刺激、眩晕、恶心或意识不清,请立即就医。如果呼吸停止,请立即进行人工呼吸。

#### Ingestion:

If swallowed, do NOT induce vomiting. Rinse. Call a poison center or doctor/physician immediately.

#### 摄入:

如果摄入,请不要催吐,漱口。立即呼叫解毒中心或就医。

## Section 5 Fire-fighting Measures

### 第五节消防措施

#### Hazardous Combustion Products:

Carbon oxides, nitrogen oxides (NO<sub>x</sub>) and potentially toxic or irritating fumes.

#### 危险燃烧产物:

碳的氧化物,氮的氧化物(NO<sub>x</sub>)及潜在的有毒或刺激性烟雾。

#### Extinguishing Media:

Use Dry Chemical, Carbon Dioxide, Foam or Water Fog. In case of fire, cool endangered containers with water fog.

#### 灭火介质:

可使用干粉灭火、二氧化碳灭火、泡沫或水雾灭火。如果发生火灾,请用水雾给濒危容器降温。

**Fire Fighting Instructions:**

Do not flush down sewers or other drainage systems. Wear self contained breathing apparatus for fire fighting if necessary.

**灭火指南:**

请不要直接将燃烧物冲入下水道或其他排水设施中。如果有必要,请佩戴独立的呼吸装置。

**Protective Equipment for Fire Fighting:**

For fires in enclosed areas, wear full protective clothing and self-contained breathing air apparatus to fight fires.

**消防队员的保护装备:**

如果火灾发生在密闭区域内,请穿着全套防护服以及独立的呼吸装置。

**Section 6 Accidental Release Measures****第六节意外释放措施****Personal precautions:**

Use proper personal protective equipment as indicated in Section 8. Ensure adequate ventilation.

**人员的防护:**

请参照第8节使用合适的个人防护装备。保证充分的通风。

**Spills/Leaks:**

Keep unnecessary people away; isolate hazard area and deny entry. Stay upwind; keep out of low areas. Protective clothing should be worn for all spills and leaks. Shut off ignition sources; no flares, smoking or flames in hazard area.

Small spills: Sweep up and shovel. Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. Large Spills: Do not flush to sewer or waterways. Prevent release to the environment if possible.

Do not flush down sewers or other drainage systems. Wear self contained breathing apparatus for fire fighting if necessary.

**释放/泄露:**

请隔离危害事故区域,让无关人员远离事故区域,并严禁无关人员进入;请站在上风向处理事故,并防止处在低洼地区。对于所有的释放和泄露,必须穿着防护服才能进行处理。关闭火源;在危险区域,请禁止闪火、烟和火焰。

小规模释放:扫掉和铲掉。将溢出物收集起来并放置到容器中去,根据当地规定处理(见第13节)。存放在合适的封闭的处理容器内。大规模泄露:禁止将污染物直接冲洗到下水道或其他排水设施内,尽可能避免其释放到环境中。

请不要直接将燃烧物冲入下水道或其他排水设施中。如果有必要,请佩戴独立的呼吸装置。

**Section 7 Handling and Storage****第七节搬运和储存****Handling Procedures:**

Use adequate ventilation when transferring product from bags or drums. Avoid formation of dust and aerosols. Wear respiratory protection if ventilation is inadequate or not available. Use respiratory, eye and

skin protection when contact is expected. Use clean plastic or stainless steel scoops only. Workers should shower and wear a fresh change of clothing after each shift. Wash all exposed areas with soap and water before eating and after handling material. In case of fire or decomposition, deluge with plenty of water to control decomposition.

**搬运程序:**

从袋子或桶中转移产品时应保证足够的空气流通。防止粉尘和气溶胶生成。如果不能保证空气流通,请佩戴呼吸保护设备。如果有接触的可能,请佩戴呼吸、眼睛和皮肤防护设备。只能使用干净的塑料或不锈钢铲子。每次轮班,工人们都应该换洗干净衣服。吃东西或搬运其他材料前,应充分用肥皂和水清洗接触者暴露部位。如果发生火灾或分解,请用大量的水浇灌以控制分解。

**Storage Procedures:**

Store in a cool, clean, dry place. Keep container tightly closed in a well-ventilated place.

**储存程序:**

请储存在阴凉、干燥洁净的地方,容器保持紧闭,放置在通风处。

**Section 8 Exposure Controls/Personal Protection****第八节接触控制/人身保护****Engineering Controls:**

Properly operating chemical fume hood designed for hazardous chemicals.

GBZ 2.1-2019 “Occupational Exposure Limits for hazardous agents in the workplace Chemical hazardous agents”: PC-TWA 0.3 mg/m<sup>3</sup>.

**工程控制:**

在专为有毒化学药品设计的通风橱正确操作。

GBZ 2.1-2019 《工业场所有害因素职业接触限制化学有害因素》: PC-TWA 0.3 mg/m<sup>3</sup>。

**Eye Protection:**

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

**眼保护:**

面罩与安全眼镜请使用经官方标准如NIOSH (美国) 或 EN 166(欧盟) 检测与批准的设备防护眼部。

**Skin Protection:**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

**皮肤保护:**

戴手套处置样品,手套在使用前必须接受检查。请使用合适的方法脱除手套(不要接触手套外部表面),避免任何皮肤部位接触此产品。使用后请将被污染过的手套根据相关法律法规和有效的实验室规章制度谨慎处理。请清洗并吹干双手。所选择的保护手套必须符合EU的89/686/EEC规定和从它衍生出来的EN 376标准。

**Body Protection:**

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**身体保护:**

全套防化学试剂工作服, 防护设备的类型必须根据特定工作场所中的危险物的浓度和含量来选择。

**Respiratory Protection:**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**吸入保护:**

如危险性评测显示需要使用空气净化的防毒面具, 请使用全面罩式多功能微粒防毒面具N100型(US)或P3型(EN143)防毒面具筒作为工程控制的候补。如果防毒面具是保护的唯一方式, 则使用全面罩式送风防毒面具。呼吸器使用经过测试并通过政府标准如NIOSH(US)或CEN(EU)的呼吸器和零件。

**General:**

Good personal hygiene practices should always be followed.

**概述:**

应当遵从良好的个人卫生习惯。

**Section 9 Physical and Chemical Properties****第九节物理和化学特性**

<b>Physical Properties:</b> 物理状态:	Solid 固体
<b>Color:</b> 颜色:	White 白色
<b>Odor:</b> 气味:	Unknown 未知
<b>Molecular Weight:</b> 分子量:	71.08 g/mol
<b>pH:</b> pH:	5.2-6 at 500g/l 5.2-6 在500g/l
<b>Boiling Point:</b> 沸点:	125°C (3.33 kPa)
<b>Melting/Freezing Point:</b> 熔点/冰点:	82-86°C -lit
<b>Flash point:</b> 闪点:	138 °C
<b>Volatility:</b> 挥发性:	N/A 不适用
<b>Odor Threshold:</b> 气味阈值:	N/A 不适用
<b>Solubility in Water:</b>	soluble in water



水溶性	溶于水
<b>Decomposition temperature:</b> 分解温度:	175-300°C
<b>Partition coefficient: n- octanol/water</b> 正辛醇/水分配系数:	-1.24
<b>Relative density:</b> 相对密度:	1.12 (water=1/水=1)
<b>Vapour pressure:</b> 蒸汽压:	0.21 kPa (84.5°C)
<b>Vapour density:</b> 蒸气密度:	2.45 (air=1/空气=1)
<b>Evaporation rate:</b> 蒸发速率:	N/A 不适用

### Section 10 Stability and Reactivity

#### 第十节稳定性和反应性

**Stability:** May polymerize explosively. Risk of dust explosion. Forms explosive mixtures with air on intense heating.

**稳定性:** 可能发生聚合反应。热不稳定。暴露于热源，紫外线，氧化剂和过氧化剂下会发生聚合反应。

**Conditions to Avoid:** Light, warmth/heat, heating (decomposition).

**应避免的条件:** 光照，高温和热源。

**Materials to Avoid:** Acids, oxidizing agents and bases. Spontaneously reacts with hydroxyl-, amino-, and sulfhydryl- containing compounds.

**不相容材料:** 酸，氧化剂和碱。自发地与含羟基，氨基和巯基的化合物反应。

**Hazardous Decomposition Products:** Carbon Monoxide & Dioxide, Nitrogen Oxides.

**危险的分解产物:** 一氧化碳、二氧化碳、氮的氧化物。

**Hazardous Polymerization:** Occur.

**聚合危险:** 发生聚合

### Section 11 Toxicological Information

#### 第十一节毒理学信息

<b>Acute Oral LD<sub>50</sub> (mg/kg)</b>	Oral (rat): 177 mg/kg
<b>急性经口毒性LD<sub>50</sub> (mg/kg)</b>	半数致死剂量 (LD <sub>50</sub> ) 经口 - 大鼠 - 177mg/kg
<b>Acute Dermal LD<sub>50</sub> (mg/kg)</b>	No data available
<b>急性经皮毒性LD<sub>50</sub> (mg/kg)</b>	无数据资料
<b>Acute Inhalation LC<sub>50</sub> (mg/m<sup>3</sup>)</b>	No data available
<b>急性吸入毒性LC<sub>50</sub> (mg/ m<sup>3</sup>)</b>	无数据资料
<b>Serious eye damage/eye irritation</b>	Eyes-rabbit -eye irritation
<b>严重眼损伤/眼刺激</b>	眼睛-兔子-眼睛刺激
<b>Respiratory or skin sensitization</b>	Maximization Test - Guinea pig May cause allergic skin reaction. (OECD Test Guideline 406)
<b>呼吸或皮肤过敏</b>	

<b>Germ Cell Mutagenicity</b> 生殖细胞致突变性	最大反应试验-豚鼠可能引起皮肤过敏反应 (OECD 测试导则 406)
<b>Carcinogenicity</b> 致癌性	May alter genetic material. In vivo showed mutagenic effects. 可能改变遗传的物质体内试验表明有致突变效应。 This product is or contains a component that has been reported to be probably Carcinogenic based on its IARC, OSHA, ACGIH, NTP, or EPA classification. Possible human carcinogen 该产品是或包含被 IARC, ACGIH 和 NTP 列为可能是致癌物的组分可能的人类致癌物 IARC: 2A-Group 2A: Probably carcinogenic to humans (Acrylamide)
<b>Reproductive Toxicity</b> 生殖毒性	Animal testing did not show any effects on foetal development. May cause reproductive disorders. Suspected human reproductive toxicant. 动物实验未见对任何胎儿发育的影响。能引起生殖紊乱。可疑人类的生殖毒物。
<b>Target Organ Toxicity-single exposure</b> 特定目标器官毒性-一次接触	No data available 无数据资料
<b>Target Organ Toxicity-repeated exposure</b> 特定目标器官毒性-重复接触	Oral- Causes damage to organs through prolonged or repeated exposure. -Peripheral nervous system 经口-长期或反复接触会对器官造成损害。 -外围神经系统
<b>Potential health effects:</b> 潜在的健康影响:	Inhalation- Toxic if inhaled. Causes respiratory irritation. 吸入—吸入会中毒。引起呼吸道刺激 Ingestion- Toxic if swallowed. 摄入—误吞会中毒。 Skin-Harmful if absorbed through skin. May cause skin irritation. 皮肤— 通过皮肤吸收可能有害。可能引起皮肤刺激。

## Section 12 Ecological Information

### 第十二节生态信息

#### Biodegradability:

Result: 100% - Readily biodegradable. (OECD TEST Guideline 301D)

生物降解能力:

结果: 100% - 快速生物降解的。(OECD 测试导则301D)

#### Aquatic Toxicity:

Toxicity to fish LC<sub>50</sub> – Pimephalespromelas -90 mg/L -96 h

Toxicity to daphnia and other aquatic invertebrates

EC<sub>50</sub> - Daphnia magna (Water flea) – 160 mg/L - 48h

水生毒性:

对鱼类的毒性半致死浓度 (LC<sub>50</sub>) -肥头鲮鱼- 90mg/L - 96 h

对水蚤和其他水生无脊椎动物的毒性

半致死有效浓度 (EC<sub>50</sub>) -大型蚤 (水蚤)-160 mg/L - 48 h

**Bio-accumulative potential:** Bioaccumulation is not expected (log Pow<1).

潜在生物累积性: Log Kow<1: 预计无潜在生物累积性。

**Mobility in soil:** No information available.

土壤中的迁移性: 无相关资料。

### Section 13 Disposal Considerations

#### 第十三节处置考虑

##### Waste Disposal:

Dispose of in a manner consistent with federal, state, and local regulations, preferably by dissolution or mixture with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

废弃物处置方法:

应依照联邦、州以及当地的法律进行废弃物处理。适宜通过分解或与易燃溶剂混合后在配有加力燃烧室和洗刷功能的化学焚烧炉中进行焚烧处理。

##### Contaminated packaging:

Dispose of as unused product.

污染了的包装物:

作为未用过的产品弃置。

### Section 14 Transport Information

#### 第十四节运输信息

##### Maritime transport IMDG 2018

海运IMDG 2018:

IMDG Class: 6.1

海运分类: 第6.1项毒性物质

UN Number: 2074

联合国编号: 2074

Packaging group: III

包装类别: III

Marine pollutant: No

海洋污染物: 否

UN Proper Shipping Name: ACRYLAMIDE, SOLID

联合国正式运输名称: 丙烯酰胺, 固态

##### Air transport ICAO-TI and IATA-DGR 62<sup>th</sup>:

空运ICAO-TI和IATA-DGR 62<sup>th</sup>:

ICAO/IATA Class: 6.1

空运分类: 第6.1项毒性物质

UN/ID Number: 2074

联合国编号: 2074

Packaging group: III

包装类别: III

UN Proper Shipping Name: ACRYLAMIDE, SOLID

联合国正式运输名称: 丙烯酰胺, 固态

## Section 15 Regulatory Information

### 第十五节管理信息

#### CHINA:

This product is classified as division 6.1 according to *Regulations on the control over safety of dangerous chemicals, General rule for classification and hazard communication of chemicals*(GB13690-2009) and *List of dangerous goods*(GB 12268-2012).*Catalog of hazardous chemicals* 2015<sup>th</sup> edition: list in

中国:

国内化学品安全管理法规: 危险化学品安全管理条例, 常用危险化学品的分类及标志 (GB 13690-2009、GB 12268-2012)将该物质划为第6.1项毒性物质; 《危险化学品名录》(2015版): 列入。

## Section 16 Other Information

### 第十六节其他信息

The information is to the best of our knowledge and is just used for health, safety and environmental purpose. It shall not be treated as any form of warranty. Please provide a proper training to the person who may use, manage of this material and those safety-handling persons.

本信息是根据我们所掌握的知识所编制, 仅用于健康、安全和环境的目的。请不要将本信息作为任何形式的担保。请对可能使用、处置和需要安全操作本产品的人员提供必要的培训。

**Abbreviation:** N/A= Not available or Not applicable

缩写: N/A=不适用

**Edit Date:** March 17, 2021

编制日期: 2021年3月17日

**Edit Institution:** Ningbo Customs District Technology Center

编制机构: 宁波海关技术中心

**Update and Revise:** The second edition

修订版本: 第二版

**Edit Standard:** Globally Harmonized System of Classification and Labeling of Chemicals (8<sup>th</sup>Reviewed, GHS): Annex 4: guidance on the preparation of safety data sheets (SDS)

编制标准: 全球化学品统一分类和标签制度(第八修订版, GHS): 附录 4: 编制安全数据单指导

**Declaim:** The information contained herein is based on data considered accurate. However, no

warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof.

Ningbo Customs District Technology Center assumes no responsibility for personal injury or property damage to vendees, users or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material.

声明：此安全数据单是基于客户准确提供的数据而制定的，我们不对这些信息或由这些信息得到的结果的准确性负责。

宁波海关技术中心不对买方、用户及第三方在使用该产品过程中造成的人身伤害或者财产损失负责。产品的买方或用户应承担产品的使用带来的全部风险。

**The period of validity of the safety data:**

The safety data sheet is based on GHS, TDG, IMDG, IATA-DGR, and "dangerous chemical safety management regulations" and the national standards and other related dangerous chemicals management laws and regulations and standards. The laws and regulations and standards are regularly updated and changed.

For the transport of dangerous goods in line with the requirements of the new management, the product safety data sheets should be in 2022 March 16 reviewed and updated.

安全数据单有效期：

该安全数据单是根据《全球化学品统一分类和标签制度》、《联合国关于危险货物运输的建议书》、《国际海运危险货物规则》、航空运输《危险品规则》、《危险化学品安全管理条例》和国家标准等相关危险化学品管理法律法规和标准进行编制，而上述法律法规和标准均会定期进行更新和变化。

为使运输的危险货物符合相关最新的管理要求，该产品安全数据单应于 2022 年 3 月 16 日前进行审核更新。

\*\*\*报告结束/End of Report\*\*\*

拟稿人：

黄文



审核人：

俞何斌