

编 码:

产品名称: 硝酸钡



危险

儿童不得接触

使用前请读标签

可能加剧燃烧: 氧化剂。吞咽有害。造成轻微皮肤刺激。造成严重眼刺激。可能损害器官(经口, 神经系统)。

**预防:**

远离热源。避开/贮存处远离服装/可燃材料。采取一切防范措施, 避免与可燃物混合。戴防护手套/穿防护服/戴防护眼罩/戴防护面具。作业后彻底清洗。使用本产品时不要进食、饮水或吸烟。不要吸入粉尘/烟/气体/烟雾/蒸气/喷雾。

**反应:**

火灾时: 使用雾状水、干粉、泡沫灭火。如误吞咽: 如感觉不适, 呼叫解毒中心或医生。漱口。如发生皮肤刺激: 求医/就诊。如进入眼睛: 用水小心冲洗几分钟。如戴隐形眼镜并可方便地取出, 取出隐形眼镜。继续冲洗。如仍觉眼刺激: 求医/就诊。如接触到或有疑虑: 呼叫解毒中心或医生。

**储存**

存放处须加锁。

**处置:**

处置内装物/容器……。

**CODE:**

**PRODUCT NAME:**

**Barium nitrate**



**Danger**

**Keep out of the reach of children.**

**Read label before use.**

**May intensify fire; oxidizer. Harmful if swallowed. Causes mild skin irritation. Causes serious eye irritation. May cause damage to organs (Oral, nervous system).**

**Prevention:**

Keep away from heat. Keep/Store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles. Wear protective gloves/protective clothing/eye protection/face protection. Wash ... thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/ vapors / spray.

**Response:**

In case of fire: Use water, foam and chemical powder to extinguish. IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell. Rinse mouth. If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Call a POISON CENTER/doctor.

**Storage:**

Store locked up.

**Disposal:**

Dispose of contents/container to...

# 化学品安全数据单

## 一、标识

全球统一制度产品标识符：硝酸钡/ Barium nitrate。

其它标识办法：/

化学品使用建议和使用限制：本品可用于烟花生产、军事、化工等行业。

供货商的详细情况：/

紧急电话号码：/

## 二、危险标识

物质或混合物的分类：

氧化性固体第2类

急性毒性（口服）第4类

皮肤腐蚀/刺激第3类

严重眼损伤/眼刺激第2类

特定目标器官毒性——单次接触第2类（途径：经口，影响器官：神经系统）。

全球统一制度标签要素，包括防范说明：



信号词：危险。

危险说明：可能加剧燃烧：氧化剂。吞咽有害。造成轻微皮肤刺激。造成严重眼刺激。可能损害器官（经口，神经系统）。

防范说明：

预防：

远离热源。避开/贮存处远离服装/可燃材料。采取一切防范措施，避免与可燃物混合。戴防护手套/穿防护服/戴防护眼罩/戴防护面具。作业后彻底清洗。使用本产品时不要进食、饮水或吸烟。不要吸入粉尘/烟/气体/烟雾/蒸气/喷雾。

反应：

火灾时：使用雾状水、干粉、泡沫灭火。如误吞咽：如感觉不适，呼叫解毒中心或医生。漱口。如发生皮肤刺激：求医/就诊。如进入眼睛：用水小心冲洗几分钟。如戴隐形眼镜并可方便地取出，取出隐形眼镜。继续冲洗。如仍觉眼刺激：求医/就诊。如接触到或有疑虑：呼叫解毒中心或医生。

储存：

存放处须加锁。

处置：

处置内装物/容器……。

不导致分类的其他危险：/

## 三、组成/成分信息

化学名称	化学文摘社编号（CAS No.）	成分（由送检企业提供）
硝酸钡	10022-31-8	≥99.3%

#### 四、急救措施

##### 不同暴露途径的急救方法

**吸入：**迅速脱离现场至空气新鲜处。保持呼吸道通畅。如呼吸困难，给输氧。如呼吸停止，立即进行人工呼吸。就医。

**皮肤接触：**脱去污染的衣着，用大量流动清水冲洗。

**眼睛接触：**立即提起眼睑，用大量流动清水或生理盐水彻底冲洗至少 15 分钟。就医。

**摄入：**饮足量温水，漱口。就医。

**最重要的急性和延迟症状/效应：** /

**必要时注明立即就医及所需的特殊治疗：** /

#### 五、消防措施

**适当的灭火剂：**可用雾状水、干粉、泡沫灭火。

**化学品产生的具体危险：**不可燃，但可助长其他物质燃烧，在火焰中释放出刺激性或有毒烟雾。

**消防人员的特殊防护行动：**消防人员必须配戴空气呼吸器、消防衣及防护手套，在安全距离以外，在上风向灭火。

#### 六、意外释放措施

**人身防范、保护设备和应急程序：**建议应急处理人员戴正压式呼吸器，穿防毒工作服。不要直接接触泄漏物。

**环境防范措施：**隔离泄漏污染区，限制出入。

**抑制和清洁的方法和材料：**小量泄漏：避免扬尘，用洁净的铲子收集于干燥、洁净、有盖的容器中，转移至安全场所。切勿使产品进入下水道等限制性区域。大量泄漏：用塑料布、帆布覆盖。使用无火花工具收集回收或运至废物处理场所处置。

#### 七、搬运与储存

**安全搬运的防范措施：**密闭操作，加强通风，严格遵守操作规程，建议操作人员佩戴防毒面具，穿相应防护服，戴橡胶防酸碱手套，戴防护眼镜、口罩，工作现场严禁吸烟。

**安全存储的条件，包括任何不相容性：**储存于阴凉、通风的仓库内。远离火种、热源。包装必须密封，切勿受潮。搬运时要轻装轻卸，防止包装及容器损坏。

#### 八、接触控制/人身保护

##### 控制参数：

来源	物质	TWA ppm	TWA mg/m <sup>3</sup>	STEL ppm	STEL mg/ m <sup>3</sup>	峰值 ppm	峰值 mg/m <sup>3</sup>	TWA F/CC	Notes
中国（香港）职业接触限值	硝酸钡	-	0.5	-	-	-	-		
中国职业有害因素职业暴露限值	硝酸钡		0.5		1.5				

**适当的工程控制：**严加密闭，提供充分的局部排风。

##### 个人防护措施

**防护眼罩/面具：**呼吸系统防护中已作防护。

**皮肤防护：**穿连衣式胶布防毒衣。

**呼吸系统防护：**可能接触其粉尘时，必须佩戴防尘面具（全面罩）。紧急事态抢救或撤离时，应该佩戴空气呼吸器。

**高温危险：** /

#### 九、物理及化学性质

外观（物理状态、颜色等）	白色粉末。
气味	/
气味阈值	/
pH 值	/
熔点/凝固点	590℃。
初始沸点和沸腾范围	/
闪点	/
蒸发速率	/
易燃性（固体、气体）	/
上下易燃极限或爆炸极限	/
蒸气压力	/
蒸气密度	/
相对密度	/
可溶性	8.7g/100mL（20℃）。
分配系数：正辛醇/水	/
自动点火温度	/
分解温度	/
粘度	/

#### 十、稳定及反应性

**反应性：** /

**化学稳定性：** 在常温下稳定。

**危险反应的可能性：** 本品为强氧化剂，可与还原性物质发生反应。

**应避免的条件：** 明火、静电。

**不相容材料：** 还原剂、易（可）燃物。

**危险分解产物：** 氮氧化物等。

#### 十一、毒理学信息

**暴露途径：** 吸入，食入，经皮吸收，眼睛接触。

**有关物理、化学和毒理学特点的症状：** /

**急性毒性效应：** 吸入后会导致咳嗽、咽喉疼痛。皮肤接触会导致皮肤发红、刺激。眼睛接触后会导致发红、刺激。食入会导致头痛、头晕、呕吐、腹痛等症状。

**慢性毒性或长期毒性效应：** 长期接触高浓度粉尘能引起肺功能病变，称为尘肺病。

**毒性的度量值（如急性毒性估计值）：**

毒性

刺激性

经口 LD50（半致死剂量）： 355 mg/kg

皮肤 500 mg/24h - 轻微的

眼睛 100 mg/24h - 中等

## 十二、生态信息

毒性：/  
持久性和降解性：/  
生物累积潜力：轻微。  
在土壤中的流动性：/  
其它有害效应：/

## 十三、处置考虑

处置方法：用安全掩埋法处置。破损容器禁止重新使用，要在规定场所掩埋。

## 十四、运输信息

联合国编号：1446。  
联合国正式运输名称：硝酸钡。  
运输危险分类：5.1+6.1。  
包装类别（如果适用）：II。  
环境危险：/  
用户的特殊防范措施：/

## 十五、管理信息

国内化学品安全法规：本化学品安全数据单遵照了以下相关国家标准：GB16483-2008，GB13690-2009，GB6944-2005，GB/T15098-2008，GB18218-2009，GB15258-2009，GB6944-2005，GB190-2009，GB191-2009，GB12268-2008，GA57-1993，GB/T15098-2008，GBZ 2-2007 以及相关法规：《铁路危险货物运输管理规则》、《危险化学品安全管理条例》。

## 十六、其它信息

参考文献	联合国《关于危险货物运输的建议书·规章范本》 联合国《全球化学品统一分类和标签制度》
制表日期	2014-04-21

注 1：当产品为含有两种以上危险物质的混合物时，应依据其混合后的危险性，制作安全数据单。

注 2：制造商/供应商应根据实际情况确保安全数据单所含信息的正确性，并适时更新。

注 3：如由于产品特性而不存在或不可得某些信息时（如固体不存在沸点），应在表格中以“/”标识。

# Chemical Safety Data Sheet

## Section 1 IDENTIFICATION

**GHS Product identifier:** Barium nitrate.

**Other means of identification:** /

**Recommended use of the chemical and restrictions on use:** This material can be used in fireworks production, military industry, chemical industry and so on.

**Supplier's details:** /

**Emergency phone number:** /

## Section 2 HAZARDS IDENTIFICATION

**Classification of the substance or mixture:**

Oxidizing solids Category 2

Acute toxicity, oral Category 4

Skin corrosion/irritation Category 3

Serious eye damage/eye irritation Category 2

Specific target organ toxicity, single exposure Category 2(Oral, nervous system)

**GHS Label elements, including precautionary statements:**



**Signal word:** Danger

**Hazard statement(s):** May intensify fire; oxidizer. Harmful if swallowed. Causes mild skin irritation. Causes serious eye irritation. May cause damage to organs (Oral, nervous system).

**Precautionary statement(s):**

Prevention:

Keep away from heat. Keep/Store away from clothing/combustible materials. Take any precaution to avoid mixing with combustibles. Wear protective gloves/protective clothing/eye protection/face protection. Wash ... thoroughly after handling. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/ vapors / spray.

Response:

In case of fire: Use water, foam and chemical powder to extinguish. IF SWALLOWED: Call a POISON CENTER/doctor/if you feel unwell. Rinse mouth. If skin irritation occurs: Get medical advice/attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF exposed or concerned: Call a POISON CENTER/doctor.

Storage:

Store locked up.

Disposal:

Dispose of contents/container to...

**Other hazards which do not result in classification:** /

## Section 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration%
Barium nitrate	10022-31-8	≥99.3%

#### Section 4 FIRST AID MEASURES

##### Description of necessary first aid measures

**If inhaled:** If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact:** Wash off with soap and plenty of water. Consult a physician.

**In case of eye contact:** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If Ingestion:** Rinse mouth with water. Rinse mouth. Consult a physician.

**Most important symptoms/effects, acute and delayed:** /

**Indication of immediate medical attention and special treatment needed, if necessary:** /

#### Section 5 FIREFIGHTING MEASURES

**Suitable extinguishing media:** Use foam, chemical power or water.

**Special hazards arising from the chemical:** The material is non-flammable and can help other materials burn and produce toxic fumes of in high temperature.

**Special protective actions for fire-fighters:** Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers.

#### Section 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:** Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas.

**Environmental precautions:** Do not enter into spillage area. Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

**Methods and materials for containment and cleaning up:** Contain spillage, and then collect in an clean container according to local regulations

#### Section 7 HANDLING AND STORAGE

**Precautions for safe handling:** Wear protective gloves/eye protection/face protection/protective clothing. Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Keep away from sources of ignition - No smoking.

**Conditions for safe storage, including any incompatibilities:** Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

#### Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

##### Control parameters:

Source	Material	TWA ppm	TWA mg/m <sup>3</sup>	STEL ppm	STEL mg/m <sup>3</sup>	Peak ppm	Peak mg/m <sup>3</sup>	TWA F/CC	Notes
China (Hong Kong)	Barium	-	0.5	-	-	-	-		



Occupational nitrate  
Exposure Limits

China Occupational

Exposure Limits for Barium	0.5	1.5
Hazardous Agents in nitrate the Workplace		

**Appropriate engineering controls:** Local exhaust ventilation or a process enclosure ventilation system may be required.

**Individual protection measures**

**Eye/face protection:** Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants.

**Skin protection:** Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber. Impervious clothing,

**Respiratory protection:** Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant.

**Thermal hazards:** /

Section 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance (physical state, colour etc)</b>	White crystal powder.
<b>Odour</b>	/
<b>Odour Threshold</b>	/
<b>pH</b>	/
<b>Melting point/freezing point</b>	590°C.
<b>Initial boiling point and boiling range</b>	/
<b>Flash point</b>	/
<b>Evaporation rate</b>	/
<b>Flammability (solid, gas)</b>	/
<b>Upper/lower flammability or explosive limits</b>	/
<b>Vapour pressure</b>	/
<b>Vapour density</b>	/
<b>Relative density</b>	/
<b>Solubility(ies)</b>	8.7 g/100mL(20°C).
<b>Partition coefficient: n-octanol/water</b>	/
<b>Auto-ignition temperature</b>	/
<b>Decomposition temperature</b>	/
<b>Viscosity</b>	/

Section 10 STABILITY AND REACTIVITY

**Reactivity:** /

**Chemical stability:** The material is stable in normal temperature.

**Possibility of hazardous reactions:** The material is oxidant and can react with reducing agent.

**Conditions to avoid:** Spark and static electricity.

**Incompatible materials:** Reducing agent and flammable materials.

**Hazardous decomposition products:** NO, NO<sub>2</sub> and so on.

#### Section 11 TOXICOLOGICAL INFORMATION

**Information on the likely routes of exposure:** Inhaled, swallowed, skin, eyes.

**Symptoms related to the physical, chemical and toxicological characteristics:** /

**Acute health effects:** Accidental ingestion of the material may be harmful and cause cough and throat pain. Oral intake cause headache, giddiness, vomit and other symptoms. This material may produce skin and eyes irritation.

**Chronic health effects:** Long term exposure to high dust concentrations may cause changes in lung function i.e. pneumoconiosis.

**Numerical measures of toxicity(such as acute toxicity estimates):**

<b>TOXICITY</b>	<b>IRRITATION</b>
Oral (rat) LD50:355 mg/kg	Skin (rabbit):500 mg/24h - Mild
	Eye (rabbit):100 mg/24h - Moderate

#### Section 12 ECOLOGICAL INFORMATION

**Toxicity:** /

**Persistence and degradability:** /

**Bioaccumulative potential:** Low.

**Mobility in soil:** /

**Other adverse effects:** /

#### Section 13 DISPOSAL CONSIDERATIONS

**Disposal methods:** Burial in a land-fill specifically licensed to accept chemical. Reuse of broken container is forbidden.

#### Section 14 TRANSPORT INFORMATION

**UN number:** 1446.

**UN proper shipping name:** BARIUM NITRATE.

**Transport hazard class(es) :** 5.1+6.1.

**Packing group, if applicable:** II.

**Environmental hazards:** /

**Special precautions for user:** /

#### Section 15 REGULATORY INFORMATION

**Regulations:** This safety data sheet is in compliance with the following national standards: GB16483-2008 , GB13690-2009 , GB6944-2005 , GB/T15098-2008 , GB18218-2009 , GB15258-2009, GB6944-2005, GB190-2009, GB191-2009, GB12268-2008, GA57-1993, GB/T 15098-2008, GBZ 2-2007 as well as the following national regulations: Dangerous Goods

Transport Administrative Regulation [Published by the Ministry of Railways, 2008], Dangerous Chemicals Safety Administrative Regulation [Published by the State Council, 2011].
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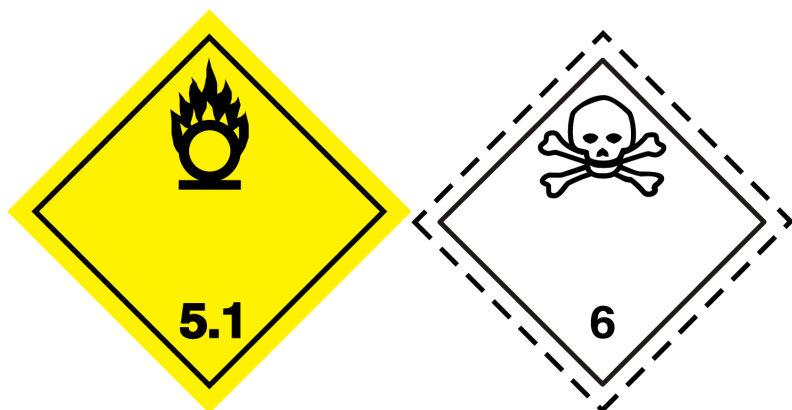
Section 16 OTHER INFORMATION

<b>References</b>	UN Recommendations on the Transport of Dangerous Goods Model Regulations UN Globally Harmonized System of Classification and Labelling of Chemicals
<b>Form Date</b>	21-April-2014

Note 1: When products contain two or more hazardous substances, Safety Data Sheets should be prepared based on the risk of the mixture.

Note 2: Manufacturer / supplier should ensure the correctness of the information contained in the safety data sheets, and updated in a timely manner.

Note 3: As a result of product features without the existence of certain information or no data available (such as boiling point does not exist for the solid) in the table with "/" logo.



硝酸钡

Barium nitrate

UN 1446