

编 码：

产品名称：硝酸铵



**警告**

儿童不得接触  
使用前请读标签

**可能加剧燃烧；氧化剂。造成严重眼刺激。对水生生物有害。**

**预防：**

远离热源、热表面、火花、明火和其他点火源。禁止吸烟。保持远离服装和其他可燃材料。戴防护手套/穿防护服/戴防护眼罩/戴防护面具。作业后彻底清洗双手。避免释放到环境中。

**反应：**

火灾时：使用水雾灭火。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。

**贮存：** /

**处置：**

按照相关规定处置内装物和容器。

CODE:

PRODUCT NAME: Ammonium nitrate



**Warning**

Keep out of the reach of children.

Read label before use.

**May intensify fire; oxidizer. Causes serious eye irritation. Harmful to aquatic life.**

**Prevention:**

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Avoid release to the environment.

**Response:**

In case of fire: Use water spray to extinguish. 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.

**Storage: /**

**Disposal:**


Dispose of contents/container in accordance with local/regional/national/international regulations.

# 化学品安全数据单

## 一、标识

<b>全球统一制度产品标识符:</b> 多孔粒状硝酸铵/ Ammonium nitrate。 <b>其它标识办法:</b> / <b>化学品使用建议和使用限制:</b> 本品主要用作肥料, 也可用来制作炸药等。 <b>供货商的详细情况:</b> / <b>紧急电话号码:</b> /
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## 二、危险标识

<b>物质或混合物的分类:</b> 氧化性固体第3类 严重眼损伤/眼刺激第2A类 危害水生环境(急性)第3类。 <b>全球统一制度标签要素, 包括防范说明:</b>  信号词: 警告。 危险说明: 可能加剧燃烧; 氧化剂。造成严重眼刺激。对水生生物有害。 防范说明: 预防: 远离热源、热表面、火花、明火和其他点火源。禁止吸烟。保持远离服装和其他可燃材料。 戴防护手套/穿防护服/戴防护眼罩/戴防护面具。作业后彻底清洗双手。避免释放到环境中。 反应: 火灾时: 使用水雾灭火。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。 贮存: / 处置: 按照相关规定处置内装物和容器。 <b>不导致分类的其他危险:</b> /
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## 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)
硝酸铵	6484-52-2	99.7%
游离水	7732-18-5	0.3%

## 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：**可用雾状水灭火。

**化学品产生的具体危险：**本品不可燃，但可助燃烧。在高温高热下分解，释放出有毒气体。

**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，根据着火原因选择适当灭火剂，在安全距离以外的上风向灭火。

#### 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。应与还原剂、易（可）燃物等分开存放，切忌混储。储区应备有合适的材料收容泄漏物。

#### 八、接触控制/人身保护

**控制参数：** /

**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）	白色球状颗粒。
气味	/
气味阈值	/
pH 值	5.59。
熔点/凝固点	/
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	溶于水。
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：** 加热可能引起激烈燃烧或爆炸。加热时，该物质分解或生成氮氧化物有毒烟雾。该物质是一种强氧化剂。与可燃物质和还原性物质发生反应。

**应避免的条件：** 火星、静电、高温。

**不相容材料：** 还原剂、易（可）燃物。

**危险分解产物：** 氮氧化物。

#### 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、咽喉刺激。皮肤接触会导致皮肤发红、刺激。眼睛接触后会导致发红、疼痛、刺激。食入会导致恶心、头晕、呕吐、腹痛等症状。

**慢性毒性或长期毒性效应：** 该物质可能对血液有影响，导致形成正铁血红蛋白。

**毒性的度量值（如急性毒性估计值）：**

Oral (rat) LD<sub>50</sub>: 2217 mg/kg

#### 十二、生态信息

**毒性：** 对水生生物有害。

**持久性和降解性：** /

**生物累积潜力：** /

**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：**1942。

**联合国正式运输名称：**硝酸铵，含可燃物质不大于 0.2%，包括以碳计算的任何有机物质，但不包括任何其他添加物质。

**运输危险分类：**5.1。

**包装类别（如果适用）：**III。

**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：GB 16483-2008、GB 13690-2009、GB 6944-2012、GB/T 15098-2008、GB 18218-2009、GB 15258-2009、GB 190-2009、GB 191-2009、GB 12268-2008、GA 57-1993、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

<b>参考文献</b>	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》
<b>制表日期</b>	2014-12-03

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:** Ammonium nitrate.

**Other means of identification:** /

**Recommended use of the chemical and restrictions on use:** This material can be mainly used as fertilizer. It can also be used to produce explosive, etc.

**Supplier's details:** /

**Emergency phone number:** /

## Section 2 HAZARDS IDENTIFICATION

**Classification of the substance or mixture:**

Oxidizing solids Category 3

Serious eye damage/eye irritation Category 2A

Hazardous to the aquatic environment, acute hazard Category 3

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



**Signal word:** Warning

**Hazard statement(s):** May intensify fire; oxidizer. Causes serious eye irritation. Harmful to aquatic life.

**Precautionary statement(s):**

Prevention:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep away from clothing and other combustible materials. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Avoid release to the environment.

Response:

In case of fire: Use water spray to extinguish. 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.

Storage: /

Disposal:

Dispose of contents/container in accordance with local/regional/national/international regulations.

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

## Section 3 COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Concentration%
Ammonium nitrate	6484-52-2	99.7%
Water	7732-18-5	0.3%

#### 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. 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 water spray to extinguish.

**Special hazards arising from the chemical:** This material is non-flammable and can enhance combustion of other substances. It may decompose at high temperature and fire and release toxic fumes.

**Special protective actions for fire-fighters:** Wear self-contained breathing apparatus for firefighting if necessary. Use water spray to cool unopened containers. In case of fire in the surroundings, use appropriate extinguishing media.

#### 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 a 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. Keep away from flammable materials and reducing agents.

#### Section 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

**Control parameters:** /

**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 spherical particles.
<b>Odour</b>	/
<b>Odour Threshold</b>	/
<b>pH</b>	5.59.
<b>Melting point/freezing point</b>	/
<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>	Soluble in water.
<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:** Heating may cause violent combustion or explosion. Decomposes on heating. This produces toxic fumes. The substance is a strong oxidant. It reacts with acids and combustible and reducing materials.

**Conditions to avoid:** Spark, high temperature and static electricity.

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

**Hazardous decomposition products:** Nitrogen oxides.

#### 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. Oral intake may cause bellyache, nausea, vomit and other symptoms. This material may cause skin and eyes irritation.

**Chronic health effects:** The substance may cause effects on the blood. This may result in

formation of methaemoglobin.

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

Oral (rat) LD<sub>50</sub>: 2217 mg/kg

Section 12 ECOLOGICAL INFORMATION

**Toxicity:** Harmful to aquatic life.

**Persistence and degradability:** /

**Bioaccumulative potential:** /

**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:** 1942.

**UN proper shipping name:** AMMONIUM NITRATE with not more than 0.2% combustible substances, including any organic substance calculated as carbon, to the exclusion of any other added substance

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

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

**Environmental hazards:** /

**Special precautions for user:** /

Section 15 REGULATORY INFORMATION

**Regulations:** This safety data sheet is in compliance with the following national standards: GB 16483-2008, GB 13690-2009, GB/T 15098-2008, GB 18218-2009, GB 15258-2009, GB 6944-2012, GB 190-2009, GB 191-2009, GB 12268-2008, GA 57-1993, 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].

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>	03-Dec.-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.



硝酸铵，含可燃物质不大于 0.2%，包  
括以碳计算的任何有机物质，但不包  
括任何其他添加物质

AMMONIUM NITRATE with not more than 0.2%  
combustible substances, including any  
organic substance calculated as carbon,  
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**UN 1942**