

编 码：  
产品名称： 萘



**警 告**  
儿童不得接触  
使用前请读标签

易燃固体。吞咽有害。怀疑会致癌。对水生生物毒性极大并具有长期持续影响。

**预防：**

使用前取得专用说明。在阅读并明了所有安全措施前切勿搬动。远离热源/火花/明火/热表面。禁止吸烟。容器和接收设备接地/等势联接。使用防爆的电气/通风/照明/设备。作业后彻底清洗。使用本产品时不要进食、饮水或吸烟。避免释放到环境中。戴防护手套/穿防护服/戴防护眼罩/戴防护面具。

**应急：**

如误吞咽：如感觉不适，呼叫解毒中心或医生。漱口。如接触到或有疑虑：求医/就诊。收集溢出物。火灾时：使用干粉、二氧化碳、雾状水或泡沫灭火。

**贮存：**

存放处须加锁。

**处置：**

处置内装物和容器.....

**CODE:**

**PRODUCT NAME: Naphthalene**



**Warning**

Keep out of reach of children

Read label before use

**Flammable solid. Harmful if swallowed. Suspected of causing cancer. Very toxic to aquatic life with long lasting effects.**

**Prevention:**

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

**Response:**

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF exposed or concerned: Get medical advice/attention. Collect spillage. In case of fire: Use dry chemical, CO<sub>2</sub>, water spray or foam to extinguish.

**Storage:**

Store locked up.

**Disposal:**

Dispose of contents/container to .....

# 化学品安全数据单

## 一、标识

物品名称：精萘/Naphthalene。

其它名称：/

使用建议及使用限制：/

制造商或供货商名称、地址及电话：/

紧急联络电话/传真电话：/

## 二、危险标识

物质或混合物的分类：

易燃固体第2类、急性毒性（口服）第4类、致癌物第2类、危害水生环境（急性）第1类、危害水生环境（长期）第1类。

全球统一制度标签要素，包括防范说明：



信号词：警告。

危险说明：易燃固体。吞咽有害。怀疑会致癌。对水生生物毒性极大并具有长期持续影响。

防范说明：

预防：使用前取得专用说明。在阅读并明了所有安全措施前切勿搬动。远离热源/火花/明火/热表面。禁止吸烟。容器和接收设备接地/等势联接。使用防爆的电气/通风/照明/设备。作业后彻底清洗。使用本产品时不要进食、饮水或吸烟。避免释放到环境中。戴防护手套/穿防护服/戴防护眼罩/戴防护面具。

应急：如误吞咽：如感觉不适，呼叫解毒中心或医生。漱口。如接触到或有疑虑：求医/就诊。收集溢出物。火灾时：使用干粉、二氧化碳、雾状水或泡沫灭火。

贮存：存放处须加锁。

处置：处置内装物和容器.....

不导致分类的其他危险（例如尘爆危险）或不为全球统一制度覆盖的其他危险：/

## 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）
萘	91-20-3	99.13

## 四、急救措施

必要的急救措施

吸入：如果吸入，请将患者移到新鲜空气处。如果停止了呼吸，给予人工呼吸。

皮肤接触：用肥皂和大量的水冲洗。

眼睛接触：用大量水彻底冲洗至少15分钟。就医。

食入：切勿催吐。切勿给失去知觉者从嘴里喂食任何东西。用水漱口。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：如果怀疑为食入性中毒，应进行催吐或用大量的温水洗胃。滴注含盐泻药如硫酸镁或硫酸钠水溶液(15到30克硫酸盐)。洗胃后，可服用缓解剂如牛乳、蛋白、胶质或其他蛋白质溶液；但不得口服油类物质，因为它能促进萘的吸收。如果眼或皮肤沾染，应该

用温水清洗，然后涂刺激性少的的软膏。由于溶血作用而导致的严重贫血，可能需要反复少量输血，用不敏感的人的红细胞会效果更好。

## 五、消防措施

**适用和不适用的灭火剂：**干粉、二氧化碳、雾状水或泡沫。

**化学品产生的具体危险：**物质属易燃固体，燃烧时火焰容易蔓延（即使部分用水润湿）。任何点火源，即摩擦、受热、火花或火焰都可能引起火灾和爆炸。可能会剧烈燃烧。可能与空气形成爆炸性混合物。火焰被扑灭后可能会复燃。容器受热可能会爆炸。固体受热或在火场中可能会熔融、流动。物质流出后可能会污染水道。

**消防人员的特殊防护行为：**佩戴呼吸设备和防护手套。用各种方法防止溢出物进入阴沟或水道。请从安全距离并有充分掩护情况下灭火。在安全的条件下，关掉电器，直至气体火灾被清除为止。喷水雾来控制火灾并冷却相邻区域。避免直接喷水到液池中。禁止靠近认为是热的容器。从有防护的位置喷水来冷却接触火场中的容器。在安全的条件下，把容器从火场中移走。

## 六、意外释放措施

**人身防范、保护设备和应急程序：**移除所有的点火源。禁止接触或践踏泄漏物质。立即清除所有泄漏物。避免皮肤和眼睛接触。

**环境防范措施：**在安全的前提下，阻止泄漏。

**抑制和清理的方法和材料：**用沙子、土或蛭石来控制或掩盖泄漏物。只能使用不产生火花的铲子和防爆的设备。收集可回收的物质，放入贴有标签的容器中，以便回收使用。收集固体残留物，密封于贴有标签的桶中，以便废弃处理。冲洗该区域。为随后的泄漏物废弃处置，筑堤收容，防止流入阴沟中。

## 七、搬运与储存

**安全搬运的防范措施：**防止所有个体接触，包括吸入。如果有过量接触的危险，必须穿戴防护服。在通风良好的场所使用。防止物质在洞内和坑道中汇集。禁止进入空气未得到检测的有限空间。禁止物质与人、食品或餐具接触。禁止吸烟、明灯或点火源。操作时禁止饮食和吸烟。避免接触不相容物质。不使用时，保持容器严实密封。避免容器受到物理性损坏。

**安全存储的条件，包括任何不相容性：**在批准的防火区，储存于原始容器中。禁止吸烟、明灯、高温或点火源。禁止储存在坑道、低凹处、地下室或蒸气可汇集而无法流出的地方。保持容器严实密封。物质应该储存在远离不相容物质的凉爽、干燥、通风的场所。防止容器物理性损坏，定期检查泄漏。保证有正确的储存控制措施，以防止危险物质储存时间过长。遵守制造商的储存和处置说明。

## 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>
中国（香港）职业接触限值	萘	10	52	15	79
中国职业有害因素职业暴露限值	萘		50		75

**工程控制：**如果即使有局部通风系统，在空气中物质的浓度仍然可以达到有害的程度，就应该考虑使用呼吸防护设备。

**个人防护设备**

**眼睛防护：**带侧边的安全护目镜。化学护目镜。隐形眼镜可能会造成一种特殊危害；软的隐形眼镜可能会吸收和富集刺激物。

**皮肤防护：**戴化学防护手套(如聚氯乙烯 PVC)。穿安全鞋或安全靴(如橡胶材料)。防渗透的衣服，阻

燃防静电防护服,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。

**呼吸防护:** 呼吸器种类和型号的选择取决于呼吸区域污染物的等级以及污染物的化学性质。

**其他防护:** /

## 九、物理及化学性质

外观(物理状态、颜色等)	白色片状晶体。
气味	/
气味阈值	/
pH值(1%溶液)	/
熔点/凝固点	/
初始沸点和沸腾范围	218 ℃。
闪点	/
蒸发速率	/
易燃性(固态、气态)	/
上下易燃极限或爆炸极限	1%~5.9%。
蒸气压力	/
蒸气密度(空气=1)	4.4
相对密度(水=1)	1.145(20 ℃)
可溶性	不混溶。
分配系数: n-辛醇/水	/
自动点火温度	526 ℃。
分解温度	/
粘度	/

## 十、稳定及反应性

**反应性:** /

**化学稳定性:** 物质是稳定的。

**危险反应的可能性:** 不会发生危害性的聚合反应。

**应避免的条件:** 吸烟、外露灯光、受热或接触点火源。

**不相容的物质和材料:** 氧化剂。

**危险的分解产物:** 一氧化碳(CO), 二氧化碳, 有机物燃烧产生的其它类型的热解产物。

## 十一、毒理学信息

**急性毒性效应:**

**吸入:** 在正常加工处理过程中, 吸入本物质的粉尘, 可能会损害健康。

**食入:** 意外食入本物质可能有害。

**皮肤:** 皮肤接触本品可损害健康, 吸收后可导致全身发生反应。

**眼睛:** 许多人接触萘以及相关的化合物后发生了白内障。

**慢性毒性或长期毒性效应:** 物质能引起癌症或基因突变, 因而受到关注, 但是没有充足资料对此进行评价。

**毒性的数值度量(如急性毒性估计值):** /

## 十二、生态信息

**生态毒性：**对水生生物毒性极大并具有长期持续影响。

**持久性及降解性：**水/土壤：轻微。空气：轻微。

**生物蓄积性：**轻微。

**在土壤中的流动性：**中等。

**其它不利效应：** /

### 十三、处置考虑

**处置方法：**尽量回收泄漏物。咨询制造商有关回收方法，如果没有适当的治理或废弃设施，联系地方的或当地的废弃物处理部门有关物质的废弃处理。**废弃方法：**在批准的填埋处掩埋，或在批准的设备中(在混入适当的可燃物质后)将物质焚毁。对所有的空容器进行去污处理。遵守标签上的所有安全说明，直至容器被清洁、销毁为止。

### 十四、运输信息

**联合国编号：** 1334。

**联合国运输名称：**粗制萘或精制萘。

**运输危险种类：** 4.1。

**包装类别：** III。

**环境危害：** /

**使用者的特殊防范措施：** /

### 十五、管理信息

**国内化学品安全管理法规：**

本安全数据单遵照了以下相关国家标准：GB16483-2008，GB13690-2009，GB18218-2009，GB15258-2009，GB6944-2012，GB191-2009，GB12268-2008，GA57-1993，GB/T 15098-2008，GBZ 2-2007以及相关法规：《危险货物运输管理规则》、《危险化学品安全管理条例》、联合国《关于危险货物运输的建议书》（简称 UN RTDG）。

### 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年10月29日

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

**Product Name:** Naphthalene.

**Other Name:** /

**Recommended use of the chemical and restrictions on use:** /

**Supplier's details:** /

**Emergency phone number:** /

## SECTION 2 HAZARDS IDENTIFICATION

**Classification of the substance or mixture**

Flammable Solids Category 2.

Acute Toxicity - Oral Category 4.

Carcinogenicity Category 2.

Hazardous to the Aquatic Environment - Acute Hazard Category 1.

Hazardous to the Aquatic Environment - Long Term Hazard Category 1.

**GHS Label elements, including precautionary statements**



**Signal word:** Warning

**Hazard statement(s):** Flammable solid. Harmful if swallowed. Suspected of causing cancer. Very toxic to aquatic life with long lasting effects.

**Precautionary statement(s):**

**Prevention:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Wash ... thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. IF exposed or concerned: Get medical advice/attention. Collect spillage. In case of fire: Use dry chemical, CO<sub>2</sub>, water spray or foam to extinguish.

**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%
Naphthalene	91-20-3	99.13

## 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.

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

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

**If swallowed:** If swallowed do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

**Indication of immediate medical attention and special treatment needed:** Induce emesis and/or perform gastric lavage with large amounts of warm water where oral poisoning is suspected. Instill a saline cathartic such as magnesium or sodium sulfate in water (15 to 30g). Demulcents such as milk, egg white, gelatin, or other protein solutions may be useful after the stomach is emptied but oils should be avoided because they promote absorption. If eyes/skin contaminated, flush with warm water followed by the application of a bland ointment. Severe anaemia, due to haemolysis, may require small repeated blood transfusions, preferably with red cells from a non-sensitive individual.

## **SECTION 5 FIREFIGHTING MEASURES**

**Suitable extinguishing media:** Dry chemical, CO<sub>2</sub>, water spray or foam.

**Special hazards arising from the chemical:** Flammable solid which burns and propagates flame easily, even when partly wetted with water. Any source of ignition, i.e. friction, heat, sparks or flame, may cause fire or explosion. May burn fiercely. May form explosive mixtures with air. May REIGNITE after fire is extinguished. Containers may explode on heating. Solids may melt and flow when heated or involved in a fire. Runoff may pollute waterways.

**Special protective actions for fire-fighters:** Wear breathing apparatus plus protective gloves. Prevent, by any means available, spillage from entering drains or water course. Fight fire from a safe distance, with adequate cover. If safe, switch off electrical equipment until vapour fire hazard removed. Use water delivered as a fine spray to control fire and cool adjacent area. Avoid spraying water onto liquid pools. DO NOT approach containers suspected to be hot. Cool fire exposed containers with water spray from a protected location. If safe to do so, remove containers from path of fire.

## **SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures:** Remove all ignition sources. DO NOT touch or walk through spilled material. Clean up all spills immediately. Avoid contact with skin and eyes.

**Environmental precautions:** Increase ventilation. Stop leak if safe to do so.

**Methods and materials for containment and cleaning up:** Contain or cover with sand, earth or vermiculite. Use only spark-free shovels and explosion proof equipment. Collect recoverable product into labelled containers for recycling. Collect solid residues and seal in labelled drums for disposal. Wash area with water and dike for later disposal; prevent runoff into drains.

## **SECTION 7 HANDLING AND STORAGE**

**Precautions for safe handling:** Avoid all personal contact, including inhalation. Wear protective clothing when risk of overexposure occurs. Use in a well-ventilated area. Prevent concentration in hollows and sumps. DO NOT enter confined spaces until atmosphere has been checked. DO NOT allow material to contact humans, exposed food or food utensils. Avoid smoking, naked lights or ignition sources. When handling, DO NOT eat, drink or smoke. Avoid contact with incompatible materials. Keep containers



securely sealed when not in use. Avoid physical damage to containers.

**Conditions for safe storage, including any incompatibilities:** Store in original containers in approved flame-proof area. No smoking, naked lights, heat or ignition sources. DO NOT store in pits, depressions, basements or areas where vapours may be trapped. Keep containers securely sealed. Store away from incompatible materials in a cool, dry, well ventilated area. Protect containers against physical damage and check regularly for leaks. Protect containers from exposure to weather and from direct sunlight. Ensure proper stock-control measures are maintained to prevent prolonged storage of dangerous goods. Observe manufacturer's storage and handling recommendations contained within this MSDS.

## 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>
China (Hong Kong) Occupational Exposure Limits	naphthalene	10	52	15	79
China Occupational Exposure Limits for Hazardous Agents in the Workplace	naphthalene		50		75

**Appropriate engineering controls:** If in spite of local exhaust an adverse concentration of the substance in air could occur, respiratory protection should be considered.

### Personal protective equipment

**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, eg. PVC. Wear safety footwear or safety gumboots, eg. Rubber. Impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**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.

**Other protection:** /

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	White sheet crystal.
<b>Odour</b>	/
<b>Odour Threshold</b>	/
<b>pH(1% solution)</b>	/
<b>Melting point/freezing point</b>	/
<b>Initial boiling point and boiling range</b>	218 °C
<b>Flash point</b>	/
<b>Evaporation rate</b>	/
<b>Flammability (solid, gas)</b>	/
<b>Upper/lower flammability or explosive limits</b>	1%~5.9%
<b>Vapour pressure</b>	/
<b>Vapour density (air=1)</b>	4.4
<b>Relative density (water=1)</b>	1.145 (20 °C)
<b>Water solubility</b>	Immiscible

<b>Partition coefficient: noctanol/water</b>	/
<b>Autoignition temperature</b>	526 °C
<b>Decomposition temperature</b>	/
<b>Viscosity</b>	/

## **SECTION 10 STABILITY AND REACTIVITY**

**Reactivity:** /

**Chemical stability:** Product is considered stable.

**Possibility of hazardous reactions:** Hazardous polymerisation will not occur.

**Conditions to avoid:** Smoking, naked lights, heat or ignition sources.

**Incompatible materials:** Oxidising agents.

**Hazardous decomposition products:** carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), other pyrolysis products typical of burning organic material.

## **SECTION 11 TOXICOLOGICAL INFORMATION**

**Acute health effects**

**Inhalation:** Inhalation of dusts, generated by the material during the course of normal handling, may be damaging to the health of the individual.

**Ingestion:** Accidental ingestion of the material may be harmful.

**Skin:** Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.

**Eyes:** Exposure to naphthalene and its congeners has produced cataracts in animals and workers.

**Chronic health effects:** There has been concern that this material can cause cancer or mutations, but there is not enough data to make an assessment.

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

## **SECTION 12 ECOLOGICAL INFORMATION**

**Toxicity:** /

**Persistence and degradability:** Water/Soil: LOW. Air: LOW.

**Bioaccumulative potential:** LOW.

**Mobility in soil:** MED.

**Other adverse effects:** /

## **SECTION 13 DISPOSAL CONSIDERATIONS**

**Disposal methods:** Recycle wherever possible. Consult manufacturer for recycling options or consult local or regional waste management authority for disposal if no suitable treatment or disposal facility can be identified. Dispose of by: burial in a land-fill specifically licenced to accept chemical and / or pharmaceutical wastes or Incineration in a licenced apparatus (after admixture with suitable combustible material). Decontaminate empty containers. Observe all label safeguards until containers are cleaned and destroyed.

## **SECTION 14 TRANSPORT INFORMATION**

**UN number:** 1334.

**UN proper shipping name:** NAPHTHALENE, CRUDE or NAPHTHALENE, REFINED.

**Transport hazard class(es):** 4.1.

**Packaging group:** III.

**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, GB18218-2009, GB15258-2009, GB6944-2012, 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, Dangerous Chemicals Safety Administrative Regulation, United Nations Regulations on the Transport of Dangerous Goods (UN RTDG)

## **SECTION 16 OTHER INFORMATION**

<b>References</b>	“Model Regulations on the Transport of Dangerous Goods” “The Globally Harmonized System of Classification and Labelling of Chemicals”
<b>Form Date</b>	29-Oct.-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.



**粗制萘或精制萘**

**NAPHTHALENE, CRUDE or  
NAPHTHALENE, REFINED.**

**UN 1334**