



创玮新材
CHUANGWEI NEW MATERIALS

Safety Data Sheet (SDS) for 4-Bromobenzocyclobutene / 4-溴苯并环丁烯的安全数据表 (SDS)

Product Name / 产品名称: 4-Bromobenzocyclobutene / 4-溴苯并环丁烯

CAS Number / CAS 编号: 1073-39-8

Molecular Formula / 分子式: C₈H₇Br

Molecular Weight / 分子量: 183.05 g/mol

Synonyms / 同义词: 3-Bromobicyclo[4.2.0]octa-1,3,5-triene; 4-Bromo-1,2-dihydrobenzocyclobutene; 4-Bromobenzocyclobutane / 3-溴二环[4.2.0]辛-1,3,5-三烯 ; 4-溴-1,2-二氢苯并环丁烯 ; 4-溴苯并环丁烷

Note: This SDS is compiled based on data from reliable sources including GB/T17519-2013, GB/T16483-2008, AK Scientific, Sigma-Aldrich, and ChemicalBook. All information is provided in both English and Chinese for clarity. Citations are provided inline where specific data is referenced.

注意: 本SDS基于GB/T17519-2013、GB/T16483-2008、AK Scientific、Sigma-Aldrich和ChemicalBook等可靠来源的数据编制。所有信息以中英双语提供以确保清晰。

SECTION 1: Identification / 第一节: 识别

1.1 Product Identifiers / 产品标识符

- Product Name: 4-Bromobenzocyclobutene / 产品名称: 4-溴苯并环丁烯
- Product Number: L661 (AK Scientific); 762121 (Sigma-Aldrich) / 产品编号: L661 (AK Scientific) ; 762121 (Sigma-Aldrich)
- CAS-No.: 1073-39-8 / CAS编号: 1073-39-8

1.2 Relevant Identified Uses / 相关已识别用途

- Identified Uses: Laboratory chemicals, synthesis of substances, industrial and scientific research (e.g., polymer synthesis, material science). / 已识别用途: 实验室化学品、物质合成、工业和科学研究 (例如聚合物合成、材料科学)。
- Uses Advised Against: Not for household, therapeutic, or other non-R&D uses. The product may be supplied under TSCA R&D Exemption. / 建议避免用途: 不适用于家庭、治疗或其他非研发用途。该产品可能根据TSCA研发豁免供应。

1.3 Supplier Details / 供应商详情

- Company Name: Tianjin Chuangwei New Material Co., Ltd. / 企业名称: 天津创玮新材料有限公司
- Company Address: Room 501, North Building, Building C12, Entrepreneurship Headquarters Base, North Side of Fuyuan Road, Wuqing Development Zone, Tianjin City, China / 企业地址: 天津市武清开发区福源道北侧创业总部基地C12号楼北栋501室
- Production Address: 4th Floor, Experimental Building No. 2, Baiyin High-Tech Enterprise Incubator, Baiyin City, Gansu Province, China / 生产地址: 甘肃省白银市 白银高新科技企业孵化器实验2号楼4楼
- Company Website: www.cwmat.cn / 公司网址: www.cwmat.cn
- Postal Code: 301700 / 邮编: 301700
- Contact Telephone: +86 13072866161 / 联系电话: +86 13072866161
- Email: ly@cwmat.cn / 电子邮箱: ly@cwmat.cn

1.4 Emergency Telephone / 紧急电话

- Emergency Phone: +86 18010072290 / 紧急电话: +86 18010072290

SECTION 2: Hazard Identification / 第二节：危害识别

2.1 Classification / 分类

GHS Classification:

- Flammable Liquids, Category 3 (H226: Flammable liquid and vapor)
- Acute Toxicity, Oral (Category 4) (H302: Harmful if swallowed)
- Short-term (Acute) Aquatic Hazard (Category 2) (H401: Toxic to aquatic life)
- Long-term (Chronic) Aquatic Hazard (Category 2) (H411: Toxic to

aquatic life with long-lasting effects) GHS分类:

- 易燃液体，类别3（H226：易燃液体和蒸气）
- 急性毒性，口服（第4类）（H302：吞咽有害）
- 短期（急性）水生危害（第2类）（H401：对水生生物有毒）
- 长期（慢性）水生危害（第2类）（H411：对水生生物有长期毒性）

2.2 Label Elements / 标签要素

- Pictogram / 象形图: Flame (for H226); Exclamation Mark (for H302); Environment (for H401, H411) . Signal Word / 信号词: Warning / 警告
- Hazard Statements / 危害声明:



- H226: Flammable liquid and vapor / 易燃液体和蒸气
- H302: Harmful if swallowed / 吞咽有害
- H401: Toxic to aquatic life / 对水生生物有毒
- H411: Toxic to aquatic life with long-lasting effects /

对水生生物有长期毒性 . Precautionary Statements / 预防声明:

- Prevention / 预防:
 - P210: Keep away from heat/sparks/open flames/hot surfaces. No smoking. / 远离热源/火花/明火/高温表面。禁止吸烟。
 - P233: Keep container tightly closed. / 保持容器密闭。
 - P240: Ground/bond container and receiving equipment. / 容器和接收设备接地/连接。
 - P241: Use explosion-proof equipment. / 使用防爆设备。
 - P242: Use non-sparking tools. / 使用不产生火花的工具。
 - P243: Take action to prevent static discharges. / 采取措施防止静电放电。
 - P270: Do not eat, drink, or smoke when using this product. / 使用本产品时勿进食、饮水或吸烟。
 - P273: Avoid release to the environment. / 避免释放到环境中。
 - P280: Wear protective gloves/protective clothing/eye protection/face protection. / 佩戴防护手套/防护服/眼部保护/面部保护。
- Response / 响应:
 - P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. / 如果皮肤（或头发）沾染：立即脱去所有受污染的衣物。用水冲洗皮肤/淋浴。
 - P370+P378: In case of fire: Use dry sand, dry chemical, or alcohol-resistant foam to extinguish. / 发生火灾：使用干砂、干化学品或耐醇泡沫灭火。
 - P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. / 如果吞咽：如果感觉不适，立即呼叫毒物中心/医生。
 - P330: Rinse mouth. / 漱口。
 - P391: Collect spillage. / 收集溢出物。
- Storage / 储存:
 - P403+P235: Store in a well-ventilated place. Keep cool. / 储存在通风良好的地方。保持低温。
- Disposal / 处置:
 - P501: Dispose of contents/container to an approved waste disposal plant. / 将内容物/容器处置到经批准的废物处理厂。

2.3 Other Hazards / 其他危害

- No data available on PBT/vPvB properties. No other hazards classified under HNOC. / 无PBT/vPvB特性数据可用。
- 无其他HNOC分类危害。

SECTION 3: Composition/Information on Ingredients / 第三节：成分/组成信息

3.1 Substances / 物质

- Chemical Name: 4-Bromobenzocyclobutene / 化学名称: 4-溴苯并环丁烯
- Common Names: 3-Bromobicyclo[4.2.0]octa-1,3,5-triene; 4-Bromo-1,2-dihydrobenzocyclobutene / 常见名称: 3-溴二环[4.2.0]辛-1,3,5-三烯; 4-溴-1,2-二氢苯并环丁烯
- CAS Number: 1073-39-8 / CAS编号: 1073-39-8
- Concentration: 97-99% (GC) / 浓度: 97-99% (GC)
- No other components need to be disclosed. / 无其他成分需披露。

SECTION 4: First Aid Measures / 第四节：急救措施

4.1 Description of First Aid Measures / 急救措施描述

- General Advice: Show this SDS to the doctor. / 一般建议: 向医生出示本SDS。
- If Inhaled: Move to fresh air. If breathing is difficult, give oxygen; if not breathing, give artificial respiration. Consult a doctor. / 如果吸入: 移至新鲜空气处。如果呼吸困难, 给氧; 如果不呼吸, 进行人工呼吸。咨询医生。
- In Case of Skin Contact: Take off contaminated clothing. Rinse skin with water/shower for at least 15 minutes. Consult a doctor. / 皮肤接触: 脱去受污染衣物。用水/淋浴冲洗皮肤至少15分钟。咨询医生。
- In Case of Eye Contact: Rinse with plenty of water for at least 15 minutes. Remove contact lenses if present and easy to do. Consult a doctor. / 眼睛接触: 用大量水冲洗至少15分钟。摘除隐形眼镜(如有且易于操作)。咨询医生。
- If Swallowed: Rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a doctor or Poison Control Center immediately. / 如果吞咽: 用水漱口。不要诱导呕吐。切勿给无意识者口服任何东西。立即呼叫医生或毒物控制中心。

4.2 Most Important Symptoms/Effects / 最重要症状/影响

- Harmful if swallowed; may cause irritation to skin, eyes, and respiratory tract. Potential for aquatic toxicity. / 吞咽有害; 可能引起皮肤、眼睛和呼吸道的刺激。水生毒性潜力。

4.3 Indication of Immediate Medical Attention / 立即医疗注意指示

- Treat symptomatically. No specific antidote known. / 对症治疗。无特定解毒剂已知。

SECTION 5: Fire-Fighting Measures / 第五节：消防措施

5.1 Extinguishing Media / 灭火介质

- Suitable: Foam, carbon dioxide (CO₂), dry powder, dry chemical, alcohol-resistant foam, water spray. / 适宜: 泡沫、二氧化碳 (CO₂)、干粉、干化学品、耐醇泡沫、水喷雾。

- Unsuitable: No limitations noted. / 不适宜: 无注明限制。

5.2 Specific Hazards / 特定危害

- Carbon oxides, hydrogen bromide gas. Combustible (Flash Point: 100°C / 212°F). Vapors heavier than air, may spread along floors. Forms explosive mixtures with air at elevated temperatures. / 碳氧化物、溴化氢气体。可燃（闪点：100°C / 212°F）。蒸气比空气重，可能沿地面扩散。在升高温度下与空气形成爆炸性混合物。

5.3 Special Protective Actions / 特殊防护行动

- Wear self-contained breathing apparatus if necessary. Use water spray to cool unopened containers. / 如必要，佩戴自给式呼吸器。用水喷雾冷却未打开容器。

SECTION 6: Accidental Release Measures / 第六节：泄漏应急处理

6.1 Personal Precautions / 个人预防措施

- Avoid breathing vapors/mist/gas. Remove ignition sources. Use personal protective equipment. Beware of vapors accumulating in low areas. / 避免呼吸蒸气/雾/气体。移除点火源。使用个人防护设备。注意蒸气在低洼处积聚。

6.2 Environmental Precautions / 环境预防措施

- Prevent further leakage if safe. Do not let product enter drains. Avoid release to the environment. / 如果安全，防止进一步泄漏。勿让产品进入排水沟。避免释放到环境中。

6.3 Methods for Containment and Cleaning Up / 遏制和清理方法

- Contain spillage. Absorb with inert material (e.g., sand, vermiculite) and place in suitable container. Use electrically protected vacuum or wet brush. Dispose according to regulations. / 遏制溢出。用惰性材料（如沙、蛭石）吸收并置于合适容器中。使用电气保护真空吸尘器或湿刷。按法规处置。

SECTION 7: Handling and Storage / 第七节：操作处置与储存

7.1 Precautions for Safe Handling / 安全操作预防措施

- Handle in a well-ventilated place. Wear suitable PPE. Avoid contact with skin/eyes. Avoid ignition sources. Ground equipment to prevent static discharge. / 在通风良好的地方操作。佩戴合适PPE。避免皮肤/眼睛接触。避免点火源。设备接地防止静电放电。

7.2 Conditions for Safe Storage / 安全储存条件

- Store in a cool, well-ventilated place at 2-8°C. Keep container tightly closed. Keep away from ignition sources. / 储存在2-8°C的凉爽、通风良好的地方。保持容器密闭。远离点火源。

SECTION 8: Exposure Controls/Personal Protection / 第八节：接触控制/个体防护

8.1 Control Parameters / 控制参数

- No occupational exposure limit values established. / 无职业接触限值确立。

8.2 Exposure Controls / 接触控制

- Engineering Controls: Use explosion-proof ventilation equipment. / 工程控制: 使用防爆通风设备。
- Personal Protective Equipment: Protective gloves (impermeable, e.g., nitrile), clothing, eye protection (goggles), face protection. Respiratory protection if ventilation insufficient. / 个人防护设备: 防护手套（不透水

, 例如丁腈)、衣物、护目镜、面罩。如果通风不足, 使用呼吸防护。

SECTION 9: Physical and Chemical Properties / 第九节 : 理化特性

- Appearance / 外观: Colorless to light yellow liquid / 无色至浅黄色液体 · Color / 颜色: Colorless to light yellow / 无色至浅黄色
- Odor / 气味: No data available / 无数据可用
- Boiling Point / 沸点: 118-119°C at 20 Torr / 20 Torr下118-119°C
- Melting Point / 熔点: Not available / 不可用
- Flash Point / 闪点: 100°C (212°F) / 100°C (212°F)
- Density / 密度: 1.47 g/mL at 25°C / 25°C下1.47 g/mL
- Solubility / 溶解度: Insoluble in water; soluble in organic solvents / 不溶于水 ; 溶于有机溶剂 · Vapor Pressure / 蒸气压: No data available / 无数据可用
- Autoignition Temperature / 自燃温度: No data available / 无数据可用 · Refractive Index / 折射率: 1.589 (n_{20/D}) / 1.589 (n_{20/D})

SECTION 10: Stability and Reactivity / 第十节 : 稳定性和反应活性

10.1 Reactivity / 反应活性

- No data available / 无数据可用

10.2 Chemical Stability / 化学稳定性

- Stable under recommended storage conditions. / 在推荐储存条件下稳定。

10.3 Possibility of Hazardous Reactions / 危险反应可能性

- Forms explosive mixtures with air. / 与空气形成爆炸性混合物。

10.4 Conditions to Avoid / 避免条件

- Heat, flames, sparks, static discharge. / 热、火焰、火花、静电放电。

10.5 Incompatible Materials / 不相容材料

- Strong oxidizing agents, acids, bases. / 强氧化剂、酸、碱。

10.6 Hazardous Decomposition Products / 危险分解产物

- Carbon oxides (CO, CO₂), hydrogen bromide. / 碳氧化物 (CO, CO₂)、溴化氢。

SECTION 11: Toxicological Information / 第十一节 : 毒理学信息

11.1 Information on Toxicological Effects / 毒理学影响信息

- Acute Toxicity: Oral LD50 (estimated Category 4): Harmful if swallowed. No specific data available. / 急性毒性: 口服LD50 (估计第4类) : 吞咽有害。无具体数据可用。
 - Skin Corrosion/Irritation: May cause irritation. / 皮肤腐蚀/刺激: 可能引起刺激。
 - Serious Eye Damage/Irritation: May cause irritation. / 严重眼损伤/刺激: 可能引起刺激。
 - Respiratory or Skin Sensitization: No data available. / 呼吸或皮肤致敏: 无数据可用。
 - Germ Cell Mutagenicity: No data available. / 生殖细胞致突变性: 无数据可用。
 - Carcinogenicity: No data available. / 致癌性: 无数据可用。
 - Reproductive Toxicity: No data available. / 生殖毒性: 无数据可用。
 - STOT - Single Exposure: No data available. / 特定靶器官毒性 - 单次接触: 无数据可用。
 - STOT - Repeated Exposure: No data available. / 特定靶器官毒性 - 重复接触: 无数据可用。
 - Aspiration Hazard: No data available. / 吸入危害: 无数据可用。
 - Additional Information: To the best of knowledge, chemical, physical, and toxicological properties have not been thoroughly investigated. / 额外信息: 据所知, 化学、物理和毒理学特性尚未彻底调查。
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SECTION 12: Ecological Information / 第十二节 : 生态学信息

12.1 Toxicity / 毒性

- Toxic to aquatic life with long-lasting effects (Category 2). / 对水生生物有长期毒性 (第2类) 。

12.2 Persistence and Degradability / 持久性和降解性

- No data available / 无数据可用。

12.3 Bioaccumulative Potential / 生物累积潜力

- No data available / 无数据可用。

12.4 Mobility in Soil / 土壤中迁移性

- No data available / 无数据可用。

12.5 Other Adverse Effects / 其他不利影响

- Hazardous to aquatic organisms. WGK Germany: 3 (Highly water-endangering). / 对水生生物有害。德国WGK : 3 (高度水污染危险) 。
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SECTION 13: Disposal Considerations / 第十三节 : 废弃处置

13.1 Waste Treatment Methods / 废物处理方法

- Dispose of contents/container to an approved waste disposal plant in accordance with local, regional, and national regulations. Offer surplus to a licensed disposal company. / 按当地、区域和国家法规将内容物/容器处置到经批准的废物处理厂。将剩余物提供给有执照的处置公司。
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SECTION 14: Transport Information / 第十四节 : 运输信息

14.1 UN Number / UN编号

- UN 1993 (Flammable liquids, n.o.s.) / UN 1993 (易燃液体, 未另作规定)

14.2 UN Proper Shipping Name / UN正确运输名称

- Flammable liquid, n.o.s. (4-Bromobenzocyclobutene) / 易燃液体, 未另作规定 (4-溴苯并环丁烯)

14.3 Transport Hazard Class / 运输危害类别

- 3 (Flammable liquids) / 3 (易燃液体)

14.4 Packing Group / 包装组

- III / III

14.5 Environmental Hazards / 环境危害

- Marine pollutant (potential due to aquatic toxicity). / 海洋污染物 (由于水生毒性潜力)。

14.6 Special Precautions / 特殊预防措施

- Transport in accordance with DOT/IATA/IMDG regulations. / 按DOT/IATA/IMDG法规运输。

SECTION 15: Regulatory Information / 第十五节：法规信息

- This substance is subject to regulations such as OSHA HCS (29 CFR 1910), TSCA, REACH, and GHS. It may be listed on inventories like EINECS, TSCA. Check local regulations for compliance. / 该物质受OSHA HCS (29 CFR 1910)、TSCA、REACH和GHS等法规管辖。可能列于EINECS、TSCA等清单。请检查本地法规以确保合规。
- WGK Germany: 3 (Highly water-endangering). / 德国WGK: 3 (高度水污染危险)。
- UNSPSC Code: 12352100 / UNSPSC代码: 12352100
- NACRES: NA.22 / NACRES: NA.22

SECTION 16: Other Information / 第十六节：其他信息

16.1 Revision Information / 修订信息

- Creation Date: September 08, 2025 (based on current compilation). / 创建日期: 2025年9月8日 (基于当前编制)
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- This SDS is for informational purposes only and should not be used as a substitute for professional advice. Refer to the latest vendor SDS for updates. / 本SDS 仅供信息参考, 不应替代专业建议。请参考最新供应商SDS以获取更新。

16.2 NFPA 704 Rating / NFPA 704评级

- Health / 健康: 2 (Moderate hazard) / 2 (中等危害)
- Fire / 火灾: 2 (Moderate fire hazard) / 2 (中等火灾危害)
- Reactivity / 反应性: 0 (Stable) / 0 (稳定)
- Special Hazard / 特殊危害: None / 无

16.3 References / 参考文献

- GB/T17519-2013, GB/T16483-2008
- AK Scientific Safety Data Sheet [12]
- Sigma-Aldrich Safety Data Sheet [18]
- ChemicalBook Safety Data Sheet [11]

Disclaimer / 免责声明:

The information in this SDS is believed to be correct but is not warranted. Users should verify data for their specific use. / 本SDS中的信息被认为正确，但不予保证。用户应为其特定用途验证数据。