



中国认可
检验
INSPECTION
CNAS IB0071



NO.262510500425

安全技术说明书 (SDS)

中文名称： 碳化硼

英文名称： Boron Carbide

生效日期： 2025年05月30日

编制人： 陈雨霜

审核人： 刘婉卿

批准人： 董学胜

上海化工院检测有限公司



声 明

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石棉柏森科技磨料有限公司

安全技术说明书

SDS

碳化硼

第一部分 产品及企业标识

中文名称：碳化硼

企业名称：石棉柏森科技磨料有限公司

地址：四川省雅安市石棉县竹马工业园区

邮编：625400

E-mail：229311620@qq.com

传真号码：0835-8885118

应急咨询电话：19911716669

化学品的推荐用途
和限制用途：核工业中子吸收；超硬研磨与切割工具；防弹与装甲材料；高温与耐腐蚀部件；电子器件与半导体。高温氧化环境；高导电性需求领域。

唯一配方标识符
(UFI)：不适用。

纳米形式的成分：无资料。

Reach 注册号：无资料。

技术说明书编码：262510500425

生效日期：2025 年 05 月 30 日

第二部分 危险性概述

依照 EC No 1272/2008 及其相关修订法规分类：

物理危险：不分类

健康危害：生殖毒性 类别 1B

环境危害：不分类

上述没有记载的危害性，分类不适用或无法分类。

标签要素：

象形图:



信号词: 危险

危险说明: H360 可能对生育能力或胎儿造成伤害。

防范说明: P201 在使用前获取特别指示。
P202 在读懂所有安全防范措施之前切勿作业。
P280 戴防护手套/穿防护服/戴防护眼罩/戴防护面具/听力保护装置。
P308+P313 如接触到或有疑虑: 求医/就诊。
P405 存放处须加锁。
P501 本品、容器的处置应依照地方、区域、国家、国际法规规定进行。

其他危害: PBT 和 vPvB 评估结果 (依据 (EC) No. 1907/2006):
三氧化二硼: 非 PBT/vPvB
碳化硼: 非 PBT/vPvB
三氧化二铁: 非 PBT/vPvB
内分泌干扰特性评估结果 (依据 (EU) No. 2017/2100 或 (EU) No. 2018/605):
三氧化二硼: 非内分泌干扰物质
碳化硼: 非内分泌干扰物质
三氧化二铁: 非内分泌干扰物质

第三部分 成分/组成信息

物质/混合物: 物质

化学品名称: 碳化硼

成份	含量 (%)	CAS NO.	EC NO.	分类	特定浓度限值, M 因子, 急性毒性估计值
碳化硼	98	12069-32-8	235-111-5	物理危险: 不分类 健康危害: 不分类 环境危害: 无法分类	/
三氧化二硼	0.3	1303-86-2	215-125-8	生殖毒性 类别 1B (H360)	/
三氧化二铁	0.2	1309-37-1	215-168-2	物理危险: 不分类 健康危害: 不分类 环境危害: 无法分类	/

纳米形式成分颗粒信息: 无资料。

第四部分 急救措施

皮肤接触:	用大量清水彻底冲洗皮肤。若刺激持续, 就医。
眼睛接触:	提起眼睑, 用流动清水冲洗至少 15 分钟。若刺激持续, 就医。
吸入:	脱离现场至空气新鲜处。保持呼吸道通畅。如感觉不适, 就医。
食入:	若清醒, 温水漱口, 就医。
最重要的急性和延迟症状/影响:	无资料。
必要时注明立即就医及所需的特殊治疗:	无资料。

第五部分 消防措施

灭火剂:	合适的灭火剂: 雾状水, 干粉, 二氧化碳和合适的泡沫。 不合适的灭火剂: 无资料。
化学品产生的具体危险:	在高温或燃烧的情况下可能释放碳的氧化物, 硼的氧化物, 铁的氧化物。
消防人员的特别防护行动:	消防员应戴自给正压式呼吸器, 穿消防防护服以防止皮肤和眼睛接触。在上风处灭火。不相关人员疏散至安全区域。

第六部分 泄漏应急处理

个人防护措施、防护设备和应急程序:	使用个人防护设备。确保足够的通风。避免吸入。消除所有点火源。确保人群远离泄漏区或处于泄漏区上风向。不相关人员禁止进入。
环境保护措施:	如果安全可行, 阻止进一步的泄漏。避免让产品进入下水道。
控制和清洁的方法和材料:	用洁净铲子收集于干燥、洁净、有盖的容器中, 密闭保存, 待处置。清扫后通风, 洒水。避免扬尘。
参考其他部分:	如适用, 请参阅第 8 部分和第 13 部分。

第七部分 操作处置与储存

安全操作的防护措施:	操作人员应经过培训, 严格遵守操作规程。建议操作人员穿合适的个体防护装备 (见第 8 部分)。避免吸入, 避免与皮肤和眼睛接触。远离火种、热源、工作场所严禁吸烟。工作场所应有通风系统和设备。避免与禁配物接触 (见第 10 部分)。操作完毕后彻底清洗手和面部。搬运时要轻装轻卸, 防止包装破裂受潮和造成损失。配备相应品种和数量的消防器材及泄漏应急处理设备。
安全储存的条件, 包括一切不相容性:	储存于阴凉、通风、干燥的库房内。保持容器密封。远离火种、热源。应与禁配物分开存放 (见第 10 部分)。储存区配备相应品种和数量的消防器材、泄漏应急处理设备和合适的收容材料。
具体最终用途:	除了第一部分中提到的用途外, 无其他资料。

第八部分 接触控制/个体防护

控制参数:	GBZ 2.1-2019 《工作场所有害因素职业接触限值 第 1 部分: 化学有害因素》: 未设定 ACGIH: 三氧化二硼: TLV-TWA 10mg/m ³
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三氧化二铁：TLV-TWA 5 mg/m³, R

接触控制：

适当的工程控制：有通风系统和设备。提供安全淋浴和洗眼设备。

个体防护措施：

眼/面部防护：戴安全防护眼镜。

皮肤防护：手防护：戴合适的化学防护手套。

身体防护：穿合适的防护服。

呼吸系统防护：戴管理部门认可的防护面罩。

高温危害：避免产品进入下水道。

环境接触控制：工作现场严禁吸烟、进食和饮水。工作后，淋浴更衣。

第九部分 理化特性

9.1 基本物理和化学性质：

物理状态：粉末

颜色：深灰色

气味：稍有气味

气味阈值：无资料

pH 值：无资料

溶解性：难溶于水

熔点/凝固点：无资料

闪点（闭杯）：不适用

沸点、初始沸点和沸程：不适用

密度/相对密度：无资料

运动黏度：不适用

爆炸上下限：无资料

蒸气压：无资料

n-辛醇/水分配系数：无资料

相对蒸气密度：无资料

自燃温度：无资料

分解温度：无资料

易燃性：该物质不属于 4.1 项易于燃烧固体。

颗粒特征：无资料

9.2 其他危害：

物理危害类别信息：无资料

其它安全特性：无资料

第十部分 稳定性与反应活性

反应性:	无资料。
化学稳定性:	常温常压下稳定。
危险反应的可能性:	无资料。
应避免的条件:	无资料。
不相容材料:	强还原剂。
危害性分解产物:	碳的氧化物，硼的氧化物，铁的氧化物。

第十一部分 毒理学资料

11.1 法规(EC)1272-2008 中确定的危险类别信息:

急性毒性:	无资料
皮肤腐蚀/刺激:	无资料
严重眼损伤/眼刺激:	无资料
呼吸致敏:	无资料
皮肤致敏:	无资料
生殖细胞致突变性:	无资料
致癌性:	无资料
生殖毒性:	可能对生育能力或胎儿造成伤害。
特异性靶器官毒性 一次接触:	无资料
特异性靶器官毒性 反复接触:	无资料
吸入危害:	无资料

11.2 其他危害

内分泌干扰特性:	依据现有信息，本品不含有依据(EU)No. 2017/2100 或(EU)No. 2018/605 属于内分泌干扰物质的成分。
其他信息:	无资料。

第十二部分 生态学资料

毒性:	无资料
持久性和降解性:	无资料
潜在的生物累积性:	无资料
在土壤中的流动性:	无资料
PBT 和 vPvB 评估结果:	该物质不含有含量为 0.1%或更高的被认为具有持久性，生物蓄积性和毒性（PBT）或具有非常持久性和生物蓄积性（vPvB）的成分。
内分泌干扰特性:	依据现有信息，本品不含有依据(EU)No. 2017/2100 或(EU)No. 2018/605 属于内分泌干扰物质的成分。

其他有害效应: 无资料

第十三部分 废弃处理

废弃处置方法: 尽可能考虑回收利用。如果不能回收利用, 建议在监督下采用焚烧方法进行处置。不得采用排放到下水道的方式废弃处置本品。将倒空的容器返还生厂商或按照国家和地方法规处置。废弃处置前应参阅国家和地方法规的有关规定。建议交给具有资格的化学废物处理部门处置。

第十四部分 运输信息

RID/ADR (2023 版): 可按非限制性货物条件办理。

IATA DGR (66 版): 可按非限制性货物条件办理。

IMO IMDG CODE (2022 版): 可按非限制性货物条件办理。

环境危害: 否

使用者的特殊防护措施: 无资料。

依据国际海事组织文书规定的散货运输: 不适用。

第十五部分 法规信息

有关物质或混合物的安全、健康和环境法规/法律: 本品的分类和标签依据法规 (EC) No 1272/2008 及其相关修订法规。本安全技术说明书依据法规 (EU) 2020/878 编制。

化学品安全评估: 无资料。

第十六部分 其他信息

编制日期: 2025 年 05 月 30 日

编制部门: 上海化工院检测有限公司

电话(传真): +86-21-52815377/31765555

修改信息: 第 0 次修改

依据标准: 法规 (EC) No 1907/2006, Article 31, 附件 II 及 (EU) 2020/878

第 2 部分和第 3 部分提到的 H 短语全文: H360 可能对生育能力或胎儿造成伤害。

缩略语和首字母缩写: CAS: 美国化学文摘社 EC: 欧盟委员会 RID: 国际铁路运输危险货物规则 ADR: 关于危险货物道路国际运输的协议 IATA DGR: 国际航空运输协会 危险品规则 IMO IMDG CODE: 国际海事组织 国际海运危险货物规则 MARPOL: 国际防止船舶造成污染公约 IBC Code: 国际散装危险化学品船舶构造和设备规则 EU: 欧盟 TLV-TWA: 时间加权平均阈值 R: 以气溶胶的可吸入部分计量

其他信息: 本 SDS 根据申请单位提供的成分含量等信息和我司现有知识编写, 仅作为指导使用。本 SDS 的使用者必须对内容的正确性与完整性做出独立判断, 根据实际情况决定其适用性, 并对使用后果承担相关法律责任。

报告结束





中国认可
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NO.262510500425

SAFETY DATA SHEET

Product Name: Boron Carbide

Effective Date: 2025-05-30

Compiler: Chen Yushuang

Checker: Liu Wangqing

Approver: Dongxuesheng

Shanghai Institute of Chemical Industry Testing Co., Ltd.





NO.252510200425

声 明

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The authenticity of the report can be checked via our website: <http://www.ghs.cn>.

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网址 (web site): www.ghs.cn

电子信箱(E-mail): sds@ghs.cn

Shimian Bosen Technology Abrasive Co., Ltd

SAFETY DATA SHEET

Boron Carbide

SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product name: Boron Carbide

Company: Shimian Bosen Technology Abrasive Co., Ltd

Address: Zhuma Industrial Park, Shimian County, Ya'an City, Sichuan Province

E-mail: 229311620@qq.com

Fax: 0835-8885118

Emergency Phone: 19911716669

Recommend use of the chemical and restrictions on use: Nuclear Industry Neutron Absorption; Superhard Grinding and Cutting Tools; Bulletproof and Armor Materials; High-Temperature and Corrosion-Resistant Components; Electronic Devices and Semiconductors. High-Temperature Oxidizing Environments; High-Conductivity Applications.

Unique Formula Identifier (UFI): Not applicable.

Nanoform Substances: No information available.

Reach registration number: No information available.

SDS Number: 262510500425

Effective Date: 2025-05-30

SECTION2 HAZARDS IDENTIFICATION

Classification according to Regulation(EC)No 1272/2008 and Related Amending Regulations:

Physical Hazards:

Not Classified

Health Hazards:

Reproductive toxicity Category 1B

Environmental Hazards:

Not Classified

The hazards not mentioned are not applicable or no data available.

Label Elements:

Hazard Pictogram(s):



Signal Word:

Danger

Hazard Statements(s):

H360 May damage fertility or the unborn child.

Precautionary Statements(s):

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves/ protective clothing /eye protection /face protection /hearing protection.

P308+P313 If exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local, regional, national, and/or international regulations.

Other Hazards:

Results of PBT/vPvB assessment[according to (EC)No. 1907/2006]:

diboron trioxide: Not PBT/vPvB

boron carbide: Not PBT/vPvB

ferric oxide: Not PBT/vPvB

Results of Endocrine disrupting properties assessment[according to (EU)No. 2017/2100 or (EU)No. 2018/605]:

diboron trioxide: Not ED

boron carbide: Not ED

ferric oxide: Not ED

SECTION3 INFORMATION ON INGREDIENTS

Substance/Mixture: Substance

Product name: Boron Carbide

Ingredient	Concentration (%)	CAS NO.	EC NO.	Classification	Specific Conc. Limits, M-Factors, Acute Toxicity, Estimates (ATE)
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boron carbide	98	12069-32-8	235-111-5	Physical Hazards: Not classified Health Hazards: Not classified Environmental Hazards: / Classification not possible
diboron trioxide	0.3	1303-86-2	215-125-8	Reproductive toxicity Category 1B (H360) /
ferric oxide	0.2	1309-37-1	215-168-2	Physical Hazards: Not classified Health Hazards: Not classified Environmental Hazards: / Classification not possible

Nanoform Component and its particle characteristics: No information available.

SECTION4 FIRST-AID MEASURES

Skin Exposure:

In case of skin contact, flush with copious amounts of water. If irritation persists, Call a physician.

Eye Exposure:

In case of contacting with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. If irritation persists, Call a physician.

Inhalation Exposure:

If inhaled, remove to fresh air immediately. If the person feels unwell, Call a physician.

Oral Exposure:

If swallowed, wash out mouth with water provided person is conscious. Call a physician.

Most Important Symptoms/Effects, Acute and Delayed:

No data available.

Indication of Any Immediate Medical Attention and Special Treatment Needed:

No data available.

SECTION5 FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable Extinguishing Media: Water spray, Dry chemical, Carbon dioxide or Suitable foam.

Unsuitable Extinguishing Media: No data available.

Specific Hazards Arising from the Substance or Mixture:

Take care as it may decompose upon combustion or in high temperatures to generate Carbon oxides, boron oxides, iron oxides.

Advice for Firefighters:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to

prevent contact with skin and eyes. Fire-extinguishing work is done from the windward. Uninvolved persons should evacuate to a safe place.

SECTION6 ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment and Emergency Procedures:

Use personal protective equipment. Remove all sources of ignition. Avoid inhalation. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to noninvolved personnel should be controlled around the leakage area by roping off.

Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Avoid entering drains.

Methods and Materials for Containment and Cleaning up:

Sweep up with spade and transfer to a dry, clean, lidded container for disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Reference to Other Sections:

Please refer to Sections 8 and 13 if appropriate.

SECTION7 HANDLING AND STORAGE

Precautions for Safe Handling:

Operators should be trained and strictly abide by operating procedures. Wear appropriate protective clothing and gloves (see Section 8). Avoid inhalation. Avoid contacting with eyes and skin. Handling is performed in a well ventilated place. Keep away from ignition sources, heat and flame. Wash hands and face thoroughly after operation. Avoid contact with incompatible materials (see Section 10). Handling and unloading should be light, to prevent packaging broken, damp and cause losses. Working place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

Conditions for Safe Storage, Including Any Incompatibilities:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from ignition sources, heat and flame. Should be stored separately from incompatible materials (see Section 10). Storage place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

Specific End Use:

Apart from the uses mentioned in section 1, no other specific uses are available.

SECTION8 EXPOSURE CONTROL/PPE

Control Parameters:

GBZ 2.1-2019 Occupational Exposure Limits for Hazardous Agents in the Workplace - Part 1:

Not set up

ACGIH:

diboron trioxide: TLV-TWA 10mg/m³

ferric oxide: TLV-TWA 5 mg/m³, R

Exposure Controls:

Appropriate Engineering Controls:

Mechanical exhaust required. Safety shower and eye bath.

Personal Protective Equipment:**Eye/Face Protection:**

Wear chemical safety glasses.

Skin Protection:

Hand Protection: Wear compatible protective gloves.

Body Protection: Wear appropriate protective clothing.

Respiratory Protection:

Wear government approved respirator.

Thermal Hazards:

Avoid to let the product enter drains.

Environmental Exposure Controls:

No smoking, drinking and eating at working site. Wash thoroughly after handling.

SECTION9 PHYSICAL/CHEMICAL PROPERTIES

9.1 Information on Basic Physical and Chemical Properties:

Physical State:	Powder
Colour:	Deep gray
Odor:	Weak odor
Odor Threshold:	No data available
pH Value:	No data available
Solubility:	hardly soluble in water
Melting Point/Freezing Point:	No data available
Flash Point (Closed Cup):	Not applicable
Boiling Point, Initial Boiling Point and Boiling Range :	Not applicable
Density/Relative Density :	No data available
Kinematic Viscosity:	Not applicable
Upper/Lower Explosive Limits:	No data available
Vapour Pressure:	No data available
Partition Coefficient: n-Octanol/Water:	No data available
Relative Vapor Density:	No data available

Autoignition
Temperature: No data available

Decomposition
Temperature: No data available

Flammability: The substance is not classified in Division 4.1 Flammable Solids.

Particle
Characteristics: No data available

9.2 Other information:

Information with regard
to physical hazard
classes: No data available

Other safety
characteristics: No data available

SECTION10 STABILITY AND REACTIVITY

Reactivity:
No data available.

Chemical Stability:
Stable under normal temperatures and pressures.

Possibility of Hazardous Reactions:
No data available.

Conditions to Avoid:
No data available.

Incompatible Materials:
Strong reducing agents.

Hazardous Decomposition Products:
Carbon oxides, boron oxides, iron oxides.

SECTION11 TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008:

Acute Toxicity:
No data available.

Skin Corrosion/Irritation:
No data available.

Serious Eye Damage/Irritation:
No data available.

Respiratory Sensitization:
No data available.

Skin Sensitization:

No data available.

Germ Cell Mutagenicity:

No data available.

Carcinogenicity:

No data available.

Reproductive Toxicity:

May damage fertility or the unborn child.

Specific Target Organ Toxicity -Single Exposure:

No data available.

Specific Target Organ Toxicity -Repeated Exposure:

No data available.

Aspiration Hazard:

No data available.

11.2 Information on Other Hazards:

Endocrine Disrupting Properties:

Based on available data, the product doesn't contain any component that is endocrine disruptor according to (EU)No. 2017/2100 or (EU)No. 2018/605.

Other Information:

No data available.

SECTION12 ECOLOGICAL INFORMATION

Toxicity:

No data available.

Persistence and Degradability:

No data available.

Bioaccumulative Potential:

No data available.

Mobility in Soil:

No data available.

Results of PBT and vPvB Assessment:

This substance contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Endocrine Disrupting Properties:

Based on available data, the product doesn't contain any component that is endocrine disruptor according to (EU)No. 2017/2100 or (EU)No. 2018/605.

Other Adverse Effects:

No data available.

SECTION13 DISPOSAL CONSIDERATION

Waste Treatment Methods:

Recycle as far as possible. If unable to recycle, it is recommended to use incineration method for disposal under supervision. This product should not be disposed of by discharge into sewers. Return empty containers to the manufacturer or dispose of them in accordance with national and local regulations. Follow the relevant provisions of national and local regulations before disposal. It is recommended to be disposed of by a qualified chemical waste treatment department.

SECTION14 TRANSPORT INFORMATION

RID/ADR(2023 Edition): The product is not subject to RID/ADR.
 IATA DGR(66th Edition): The product is not subject to IATA DGR.
 IMO IMDG CODE(2022 Edition): The product is not subject to IMO IMDG CODE.

Environmental Hazards: No
 Special Precautions for User: No data available.
 Maritime transport in bulk according to IMO instruments: Not applicable

SECTION15 REGULATORY INFORMATION

Safety, Health and Environmental Regulations/Legislation Specific for the Substance or Mixture:

The product is classified and labelled according to Regulation (EC) No 1272/2008 and related amending regulations. The safety data sheet is compiled according to Regulation (EU) 2020/878.

Chemical Safety Assessment:

No data available.

SECTION16 OTHER INFORMATION

Preparation Date:

2025-05-30

Preparation Department:

Shanghai Institute of Chemical Industry Testing Co., Ltd.

Tel(Fax): +86-21-52815377/31765555

Revision:

0

Reference Standard:

Regulation (EC) No 1907/2006, Article 31 , ANNEX II and (EU) 2020/878

Full Text of H-Statements Referred to under Sections 2 and 3:

H360 May damage fertility or the unborn child.

Abbreviations and Acronyms:

CAS: Chemical Abstracts Service EC: European Commission RID: Regulations concerning the International Carriage of Dangerous Goods by Rail ADR: Agreement concerning the International Carriage of Dangerous Goods by Road IATA DGR: International Air Transport Association Dangerous Goods Regulations IMO IMDG CODE: International Maritime Organization International Maritime Dangerous Goods Code MARPOL: International Convention for the Prevention of Pollution from Ships IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk EU: European Union TLV-TWA: Threshold limit value-time weighted average R: Measured as respirable fraction of the aerosol

Other Information:

This SDS is compiled based on the information such as ingredients provided by the applicant and our current knowledge. This SDS shall be used only as a guide. The users of this SDS must make independent judgments on the correctness and completeness and then decide its suitability according to the actual situation. The users should take the relevant legal responsibilities for the consequences of use.

END OF REPORT

