

Material Safety Data Sheet 材料安全数据表

MQP-B Part No.物料号: 10184-070, 20021-070, 20030-070, 20046-070

01. Identification of the substance / preparation and of the company 产品及企业标识

- Product identification 产品名称: MQP-B-10184-070 / MQP-B-20021-070 / MQP-B-20030-070 / MQP-B-20046-070
- General / Trade names 通用/商品名: NdFeB Crushed Ribbon 钕铁硼快淬磁粉
- Product application 产品的应用: See product information 参见产品信息
- Company 公司: Magnequench (Tianjin) Co., Ltd. 麦格昆磁(天津)有限公司
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02. Composition / Information on ingredients / 成分组成信息

Substance 物质	Concentration, Weight %* **重量百分比%	CAS No. 美国化学文摘社登记号	EC No. / 《欧洲商业化学物质名录》编号	EC Symbol/Risk-Phrases EC 符号/特别风险性质
Neodymium / 钕	26.3	7440-00-8	231-109-3	-
Boron / 硼	0.9	7440-42-8	231-151-2	-
Cobalt / 钴	5.0	7440-48-4	231-158-0	Xn, R42/43, R53
Iron / 铁***	67.8	7439-89-6	231-096-4	-

In solid form, this material is not hazardous good. 在固体状态下, 此物质不是危险品。

- * Concentrations are typical. Actual concentrations can vary by up to +/-15% depending on product and element.
给出的是典型的重量百分比值, 针对不同类型的产品和不同的元素, 重量百分比值可能在+/-15% 的范围内变化。
- ** Any elements that are not mentioned here have a weight percent <0.1% and are typically impurities.
任何没有提到的元素, 重量百分比都 <0.1%, 一般都为杂质。
- *** Iron is not specified usually other than 'balance' and here a calculated value is shown.
铁通常为平衡物质, 含量没有准确确定, 这里给出的是计算值。

03. Hazards identification / 危害信息

- Emergency Overview / 紧急情况概述: Alloy powder. / 合金粉末。
- Potential Health Impact / 潜在的健康影响:
 - Eye / 眼睛: Contact may cause irritation and redness
眼睛接触会造成眼睛刺激和红肿。
 - Skin / 皮肤: May cause sensitization by skin contact.
皮肤接触可能引起过敏。
 - Inhalation / 吸入: May produce irritation and respiratory tract sensitization with asthma like symptoms, including cough, dyspnea, chest tightness, and wheezing.
吸入可导致呼吸困难, 呼吸道过敏及哮喘症状, 包括咳嗽, 呼吸困难, 胸闷,

喘息等症状。

Ingestion / 摄取: May produce vomiting, diarrhea, loss of appetite, and nausea.

摄取也许导致呕吐, 腹泻, 食欲减弱, 恶心等症状。

Cobalt is listed as a possible human carcinogen by the IARC.

钴金属被 IARC 认为是致癌物质。

- Environmental Hazards / 环境危害: None identified. / 不明确。

04. First aid measures / 急救措施

- Eye contact / 眼睛接触: In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.
万一眼睛接触了这种物质, 请用大量的水彻底冲洗眼睛并寻求医生的帮助。
- Skin contact / 皮肤接触: In case of contact with skin wash off with warm water. Consult a doctor if skin irritation persists.
万一皮肤接触了这种物质, 请用温水冲洗。如果有持续的皮肤过敏症状请向医生咨询。
- Inhalation / 吸入: Ensure supply of fresh air. In the event of symptoms refer for medical treatment.
保证提供新鲜的空气。要是症状表现, 咨询药物治疗。
- Ingestion / 摄取: Induce the patient to vomit of his own accord only if fully conscious. Supply with medical care. Rinse out mouth and give plenty of water to drink.
在病人完全清醒的情况下, 劝导他主动地呕吐。提供药物治疗。漱口并大量饮水。
- Advice to doctor / 对医生的建议: Treat symptomatically. / 依据症状治疗。

05. Fire-fighting measures / 消防措施

- Suitable extinguishing media / 适当的灭火介质: Dry Sand, NA-X, LITH-X, or approved material for Class D fires.
干砂, (NA-X, LITH-X) 或者 D 类专用灭火材料。
- Unsuitable Extinguishing Media: Do not use water, CO₂, or halogens if material is ignited.
不能使用的灭火介质: 不能使用水, 二氧化碳和卤代烷灭火器。
- Flash Point / 闪点: NA. / 不适用
- Explosive limits in air / 在空气中的爆炸限: Upper / 上限: No data. / 没有资料。
Lower / 下限: No data. / 没有资料。
- Special Exposure Hazards in Fires: None.
有害的燃烧产物: 没有。
- Required special protective equipment for fire fighters: Full protective clothing and self contained breathing apparatus.
消防人员必须的特殊保护装置: 完整的防护服以及完备的呼吸装置。
- Additional information / 附加信息: Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.
火后残渣以及用来灭火的被污染的水, 必须按照当地的有

关制度妥善处理。

06. Accidental release measures / 泄露应急处理

- Personal precautions / 个人防护: Ensure adequate ventilation. Avoid dust formation.
保证足够的通风, 避免灰尘形成。
- Environmental precautions / 环境预防: Do not discharge into drains/ surface waters.
不要把此产品卸入下水道、地表水里。
- Procedures for Spill/Leak Clean-up: Avoid raising dust. Protect from water. Transfer to containers for disposal. Use clean non-sparking tools to collect the material.
散落/泄露清洁程序: 避免激起粉尘, 防止与水接触, 转移到容器中等待处理。
使用不产生火花的工具收集。

Refer to Section 8 for additional personal protection information. / 参阅第 8 部分获得更多的个人防护措施信息。

Refer to Section 13 for disposal considerations. / 参阅第 13 部分获得处置方面需要考虑的事项。

07. Handling and storage / 操作和储存

- Advice on safe handling / 安全操作建议: Avoid the formation and deposition of dust. No air extraction if dust raised.
避免形成和沉积粉尘。如果引起了粉尘避免使用抽气的方法。
- Advice on protection against fire and explosion 避免火灾及爆炸的建议: Keep away from sources of ignition. Do not smoke.
Avoid production of dust. Dust can form an explosive mixture with air. Take precautionary measures against static discharges.
远离火源、禁止吸烟。避免产生粉尘, 粉尘与空气能形成爆炸混合物。采取预防静电放电的措施。
- Requirements for storage: Store powder in unopened original container.
对保存空间和容器的要求: 使用没有开封过的新容器保存磁粉。
- Advice on storage compatibility: Do not store with combustible materials. Do not store together with oxidizing agents. Keep away from water.
保存时的兼容性: 不要与易燃物、氧化剂保存在一起, 与水隔离。
- Further information on storage conditions: Store in a dry place. Protect from heat/overheating. Keep in a cool place.
关于保存条件的进一步信息: 防止加热/过热, 保存在一个干燥、凉快的地方。

Refer to Section 6 for clean-up of spillages. / 参阅第 6 部分获得散落清理措施信息。

Refer to Section 13 for disposal considerations. / 参阅第 13 部分获得处置方面需要考虑的事项。

08. Exposure controls / personal protection / 接触控制和个人防护措施

- Additional advice on system design: Ensure adequate ventilation on workstation.
体系设计时的补充建议: 工作场所保证足够的通风。

Ingredients with occupational exposure limits to be monitored / 需要监控的成分及职业接触限值:

Substance 物质	CAS No. 美国化学文摘社登记号	PEC-TWA [mg/m3] 时间加权平均容许浓度[mg/m3]	PEC-STEL[mg/m3]短时间接接触容许浓度[mg/m3]	General remarks 注释
Cobalt	7440-48-4	0.05	0.1	as Co

- General protective measures / 一般防护办法: Do not inhale dust. Avoid contact with eyes and skin.

- | | |
|--|--|
| <ul style="list-style-type: none"> ● Respiratory protection / 呼吸系统防护: | <p>不要吸入粉尘, 避免与眼睛和皮肤接触。</p> <p>Breathing apparatus in the event of high concentrations.
Short term: filter apparatus, P100 (NIOSH 42CFR84) or FFP2 (EN149).</p> <p>在高浓度的情况下使用呼吸面罩。
短间接接触: 使用满足 P100 (NIOSH 42CFR84) 或 FFP2 (EN149) 标准的防尘口罩。</p> |
| <ul style="list-style-type: none"> ● Hand protection / 手防护: | <p>Butyl rubber, >120 min (EN 374) 丁基橡胶手套,</p> |
| <ul style="list-style-type: none"> ● Eye protection / 眼睛防护: | <p>Safety glasses. / 安全眼镜。</p> |
| <ul style="list-style-type: none"> ● Skin protection / 皮肤防护: | <p>Light protective clothing. / 轻薄的防护服。</p> |
| <ul style="list-style-type: none"> ● Hygiene measures / 卫生措施: | <p>Wash hands before breaks and after work. Use skin barrier cream.</p> <p>在休息之前和下班以后请洗手。使用肌肤隔离霜。</p> |

09. Physical and chemical properties / 理化特性

- | | |
|--|--|
| <ul style="list-style-type: none"> ● Form / 形状: | <p>Powder. / 粉末。</p> |
| <ul style="list-style-type: none"> ● Color / 颜色: | <p>Silver-grey. / 银灰色。</p> |
| <ul style="list-style-type: none"> ● Density / 密度[g/cm³]: | <p>7.64 ± 0.20.</p> |
| <ul style="list-style-type: none"> ● Odor / 气味: | <p>Odorless / 没有气味的。</p> |
| <ul style="list-style-type: none"> ● Combustible properties / 易燃性: | <p>No. / 不易燃。</p> |
| <ul style="list-style-type: none"> ● Melting point / 熔点[°F]: | <p>3000.</p> |
| <ul style="list-style-type: none"> ● Particle size distribution / 粒度分布: | <p>>40 mesh (420µ m) < 0.1 wt%.
>40 目(420 微米) < 0.1% (重量比)。
> 60 mesh (250µ m) < 25 wt%.
>60 目(250 微米) < 25% (重量比)。
< 270 mesh (53µ m) < 12 wt%.
< 270 目(53 微米) < 12% (重量比)。</p> |
| <ul style="list-style-type: none"> ● Apparent density / 表面密度[g/cm³]: | <p>~3.0.</p> |
| <ul style="list-style-type: none"> ● Solubility in water / 在水中的溶解度: | <p>Not determined. / 没有确定。</p> |
| <ul style="list-style-type: none"> ● Decomposition temperature / 分解温度: | <p>Not applicable. / 不适用。</p> |

10. Stability and reactivity / 稳定性和反应活性

- | | |
|---|--|
| <ul style="list-style-type: none"> ● Stability / 稳定性: | <p>Stable under normal operational conditions.
在正常操作情况下是稳定的。</p> |
| <ul style="list-style-type: none"> ● Conditions to avoid / 需要避免的情况: | <p>Do not expose to extreme heat or flame. Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.
不要暴露特别热或有火花的地方。在与空气混合的情况下, 细粉尘的积聚可能引发粉尘爆炸。</p> |
| <ul style="list-style-type: none"> ● Materials to avoid / 需要避免的物质: | <p>Strong oxidizing agents, strong acids, and bases. Salt water, water and liquids containing chlorine, and some fluorine containing compounds.
In general avoid halogen containing solvents or compounds.
强氧化介质、强酸、强碱、盐水, 液体包括: 水, 一些含有氯和氟化物的溶液。通常避免接触含卤溶剂和化合物。</p> |
| <ul style="list-style-type: none"> ● Hazardous decomposition products: | <p>No hazardous decomposition products known.</p> |

危险的分解产物: 已知的情况, 没有危险分解产物。

- Hazardous Polymerization / 聚合危害: Should not occur. / 不会发生。

11. Toxicological information / 毒理学信息

- OECD 406 Sensitization / 过敏作用*: Sensitizing. / 过敏。

General remarks / 总注释: No toxicological data are available. / 没有可利用的毒理学数据。

12. Ecological information / 生态学信息

- General Information 一般信息: No data on ecological toxicity or biodegradability is available at this time.

目前没有生态毒性或生物降解方面可利用的数据。

13. Disposal considerations / 废弃处理

- Waste code (EWC): 060499

废物代码 (欧洲废物目录)*: 060499

- Waste disposal method / Product: For recycling, consult manufacturer or DISPOSAL IS TO BE PERFORMED IN COMPLIANCE WITH ALL FEDERAL, STATE/PROVINCIAL AND LOCAL REGULATIONS.

废弃处置办法 / 产品:

Do not dispose of via drains or into the immediate environment.

向生产厂家咨询, 回收处理或者按照国家、省和当地的法律制度处置。

不要通过倒入下水道或直接倒入环境中处置。

- Waste disposal method / Packaging: Uncontaminated packaging may be taken for recycling. Packaging that cannot be recycled should be disposed of as for product.

废弃处置办法 / 包装:

没有污染的包装物可以考虑循环利用。不能被循环利用的包装物可以参照产品的处置办法处理。

14. Transport information / 运输信息

- Classification according to ADR / 按照《公路危险货物运输欧洲协定》分类:

ADR-Class / 《公路危险货物运输欧洲协定》- 等级:

Non Hazardous and Non Regulated. 非危险品, 不受国际危规限制。

- Classification according to IMDG: 按照《国际危险货物海运法规》分类:

IMDG-Code-Class / 《国际危险货物海运法规》危险品等级:

Non Hazardous and Non Regulated. 非危险品, 不受国际危规限制。

- Classification according to IATA: 按照国际航空运输协会分类:

IATA-DGR-Class:

国际航运协会-危险货物法规分类: Non Hazardous and Non Regulated. 非危险品, 不受国际危规限制。

15. Regulatory information / 法规信息

- U.S. Federal Regulations / 美国联邦法规:

CERCLA 103 Reporting Requirements / 综合环境响应、补偿和责任法案 第 103 节 报告要求: None / 没有;

EPCRA/SARA Title III / 紧急状态计划和公共权利意识法案 / 超级基金修改与再授权法 第三章:

Section 302 Extremely Hazardous Substances / 第 302 节 极端有害物质: None / 没有;

Section 311/312 Hazard Category / 第 311 / 312 节 危险类别: Fire Hazard / 火灾;

Section 313 Toxic Chemicals / 第 313 节 有毒化学物质: None / 没有;

TSCA / 毒品控制法案: All of the components of this product are listed on the TSCA inventory. / 该产品所有成分均

MSDS MQP-B-10184-070 / MQP-B-20021-070 / MQP-B-20030-070 / MQP-B-20046-070

在 TSCA 目录上。

Because this material contains cobalt, it is classified as **Xn, Harmful**. However, this material in its solid form is not required to be labeled.

因为这种材料中包含钴，而钴被划分为 Xn 有害物质。然而由于钴在本材料中是以固体的形式存在的，所以没有必要贴 Xn 标签。

16. Other informations / 其他信息

- **R phrases(Information on ingredients - 02): / 特别风险性质(在第 2 部分, 成分里的信息)**

R 42/43: May cause sensitization by inhalation and skin contact. / 吸入和皮肤接触可能引起过敏。

R53: May cause long-term adverse effects in the aquatic environment.
可能在水生环境中造成长期不利影响。

- EC Symbols / 欧洲联盟危险符号: Xn: Harmful. / 有害物品。

- EC Risk-Phrases / EC 特别风险性质: None. / 没有。

- **Sources of documentation / 文件来源:**

EEC / 欧洲经济共同体决议文件:

1967/548/EEC (2004/73); 1999/45 /EC (2001/60); 2001/58/EC.

Transport information / 运输相关文件:

ADR (2003); IMDG-Code (31.Amdt.); IATA-DGR (2004)

- **Explanation of abbreviation / 缩写词:**

OECD: Organization for Economic Co-operation and Development. / 经济合作与发展组织。

EWC: European Waste Catalogue / 欧洲废物目录。

ADR: European Agreement concerning the international carriage of Dangerous goods by Road.
国际危险获取公路运输欧洲协定

IMDG code: International Maritime Dangerous Goods Code. / 国际危险货物海运编码

IATA-DGR: International Air Transport Association-Dangerous Goods Regulations.
国际航空运输协会-危险货物法规。

- **Disclaimer: / 免责声明:**

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