

安全数据表 MSDS (Safety Data Sheet)  
羧甲基纤维素钠  
Sodium Carboxy Methyl Cellulose (CMC)

Version 2.0 Date of establishment: 20/02/2024

1、产品和公司标识 Identification of the substance and of the company/undertaking

1.1 产品标识 Product identifier:

标签标识/商品名称: 羧甲基纤维素钠

identification on the label/Trade name: Sodium Carboxy Methyl Cellulose(CMC)

附加标识 Additional identification: 无 Not available

产品标识 Identification of the product: CAS#:9004-32-4 EC#:618-376-6

索引号 Index Number: 无 Not available

REACH 注册号: CMC 是一种改性天然高分子物质, 免注册。

REACH registration No: CMC is a modified natural polymers exempted from REACH registration .

1.2 产品用途及使用建议 Relevant identified uses of the substance and uses advised against:

1.2.1 用途: 用作分散剂、乳化稳定剂、粘结剂、增稠剂和流变助剂等。

Identified uses: Used as dispersant、emulsion stabilizer、binder、thickener、rheological aid, etc.

1.2.2 使用建议: 根据客户配方、应用需求添加使用。

Uses advised against: Add and use as per customer's formula and application requirements.

1.3 安全资料表中供应商的详情信息 Details of the supplier of the safety data sheet:

供应商(代理商) Supplier(Only representative): /

供应商(生产商) Supplier(Manufacturer): 鹤壁市方瑞化工产品有限公司 YuCMC Co., Ltd.

地址 Address: 鹤壁市鹤山区姬家山工业园区鹤林路以南 South of Helin Road, jijiashan Industrial Park, Heshan District, Hebi City.

Contact person(E-mail 联系人): —

电话 Telephone: +863926639936/+863926639939

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紧急电话 Emergency telephone Number: +8615538911599/+8613906243336

下班时间可以吗? Available outside office hours? Yes ☒ NO ☐

2、危害识别 Hazards Identification

2.1 产品分级 Classification of the substance:

2.1.1 分级 Classification

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根据 67/548/EEC and REGULATION(EC) No 1272/2008, 此产品按照下表所列进行分级:

The substance is classified as following according to 67/548/EEC and REGULATION (EC) No 1272/2008:

| REGULATION(EC) No 1272/2008              |                       |
|------------------------------------------|-----------------------|
| 危害级别/类别 Hazard classes/Hazard categories | 危害申明 Hazard statement |
| 无 N/A                                    | 无 N/A                 |

For full text of H- phrases: see section 2.2

| 67/548/EEC                   |            |
|------------------------------|------------|
| 危害特点 Hazards characteristics | R- phrases |
| 无 N/A                        | 无 N/A      |

For full text of R- phrases: see section 16.

2.1.2 最重要的危害 The most important adverse effects

2.1.2.1 最要重的物理化学危害 The most important adverse physicochemical effects:

无 Not applicable

2.1.2.2 对人体健康最严重的危害 The most important adverse human health effects:

无 Not applicable

2.1.2.3 对环境的最严重的危害 The most important adverse environmental effects:

无 Not applicable

2.2 标识要素 label elements

危害象形图 Hazard Pictograms: 无危害象形图 No hazard pictogram is used

信号词 Signal Word(S): 无信号词 No signal word is used

危险说明 Hazard Statement: 不适用 Not applicable

防范说明 Precautionary Statement: 不适用 Not applicable

2.3 其他危害 Other hazards

无 Not applicable

### 3、成分组成信息 Composition/information on ingredients

物质/混合物 Substance/Mixture: 物质 Substance

成分 Ingredient(s):

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| 化学名称<br>Chemical Name                      | 注册号<br>Registration NO. | CAS 号<br>CAS NO. | EC 号<br>EC NO. | 含量<br>Concentration |
|--------------------------------------------|-------------------------|------------------|----------------|---------------------|
| 羧甲基纤维素钠<br>Sodium Carboxy Methyl Cellulose | —                       | 9004-32-4        | 618-378-6      | ≥99.5%              |

**4、急救措施 First aid measures****4.1 急救措施综述 Description of first aid measures:**

在有疑问或有持续症状的情况下，应及时就医。

In all cases of doubt, or when symptoms persist, seek medical attention.

**4.1.1 不慎吸入 In case of inhalation:**

立即转移至有新鲜空气处，若不能呼吸，请做人工呼吸；若呼吸困难，请及时供氧；若咳嗽或有其他症状，请及时就医。

Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

Get medical aid if cough or other symptoms appear.

**4.1.2 皮肤接触 in case of skin contact**

用大量水冲洗皮肤。Flush skin with plenty of water.

**4.1.3 眼睛接触 In case of eyes contact**

用大量的水冲洗眼睛 15 分钟，偶尔抬起上下眼皮，如果刺激继续，应及时就医。

Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops, get medical aid.

**4.1.4 不慎食入 In case of ingestion**

不要催吐，用大量水漱口。

Do NOT induce vomiting, rinse mouth with plenty of water.

**4.2 最重要的症状和影响，包括急性和慢性的 Most important symptoms and effects, both acute and delayed:**

此产品不列为对人体健康有害的影响的产品 The product is not classified as harmful to human health effect.

**4.3 立即就医和特殊处理指示 Indication of any immediate medical attention and special treatment needed**

如果皮肤刺激和皮疹出现，请及时就医 If skin irritation or rash occurs, get medical advice/attention.

**5、防火措施 Fire-Fighting measures**

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5.1 灭火介质 Extinguishing media

适合的灭火介质: 干粉、泡沫、雾状粉、二氧化碳

Suitable extinguishing media: Dry chemical, foam, water spray, carbon dioxide.

不适合的灭火介质 Unsuitable extinguishing media: 无 Not applicable

5.2 该物质及混合物燃烧产生的危害 Special hazards arising from the substance or mixture

一氧化碳、刺激性和有毒烟雾和气体、二氧化碳。

Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

5.3 灭火建议 Advice for fire-fighters

穿戴符合压力要求的自给式呼吸器, 和全套护具。

Wear a self-contained breathing apparatus in pressure-demand, and full protective gear.

6、泄露处理方法 Accidental release measures

6.1 个人防护、防护设备和应急程序

Personal precautions, protective equipment and emergency procedures

6.1.1 非应急人员 For non-emergency personnel

移除燃烧源, 保证足够的通风。避免吸入燃烧的气体或粉尘。避免跟皮肤和眼睛接触。穿上防护手套/防护服, 注意保护眼睛和面部。

Remove ignition sources Provide adequate ventilation. Avoid inhalation of vapour or dust. Avoid skin and eye contact. Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2 应急人员 For emergency responders:

如果有烟雾、气体或粉尘产生时, 穿符合的 NIOSH/MSHA 要求的呼吸器。

Wear an appropriate NIOSH/MSHA approved respirator if mist, vapor or dust is generated.

6.2 环保措施 Environmental Precaution

未经政府许可, 不允许物质被排放到环境中。

Do not allow material to be released to the environment without proper governmental permits.

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

使用真空吸尘器或直接清扫物质, 并放入到合适的处置容器。立即处理泄露; 使用适当的防护设备; 避免产生粉尘的条件; 保持通风。

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Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, using the appropriate protective equipment. Avoid generating dusty conditions. Provide ventilation.

6.4 其他方面的参考 Reference to other sections

详见 7 节关于安全处理信息 See Section 7 for information on safe handling.

详见 8 节关于个人防护设备信息 See section 8 for information on personal protection equipment.

详见部分 13 节关于处理信息 See Section 13 for information on disposal.

6.5 附件信息 Additional information

湿处理或真空吸尘器处理。Wet clean or vacuum up solids.

不要用刷子或者压缩空气清洁表面或衣服表面，并立即处理泄露点。

Don't use a brush or compressed air for cleaning surfaces or clothing. Clear spills immediately.

7、处理和存储 Handling and storage

7.1 保护措施 Precautions for safe handling

处理需在通风良好的地方进行。穿戴适当的防护装备。防止粉尘的扩散。使用后彻底洗手、洗脸。如果粉尘或悬浮颗粒产生则需要使用局部排气。Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent dispersion of dust. Wash hands and face thoroughly after handling. Use a local exhaust if dust or aerosol will be generated.

7.1.2 职业卫生建议 Advice on general occupational hygiene

在工作区域不吃东西，不抽烟喝酒。使用后勤洗手。进入饮食区域之前脱去污染的衣服和防护装备。

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

7.2 安全存储条件（涉及任何不相容物质） Conditions for safe storage, including any incompatibilities:

储存于密闭容器内；在阴凉，干燥通风的地方存放；远离不相容的物质。在没有特殊预防措施申明的地方存放；注意防潮。Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. No special precautions indicated. Store protected from moisture.

7.3 特定用途 Specific end use(s)

无 Not applicable.

8、暴露控制/个人防护 Exposure control/personal protection

8.1 控制参数 Control parameters

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8.1.1 职业接触限值 Occupational exposure limits: 无 Not applicable.

8.1.2 在使用条件下额外的接触限值: 无

Additional exposure limits under the conditions of use:Not applicable.

8.1.3 DNEL/DMEL and PNEC-值 DNEUDMEL and PNEC-Values : 无 Not applicable.8.2 暴露控制 Exposure controls

8.2 适当的工程控制 Appropriate engineering controls:

设备存储或使用时应配备洗眼设施和安全淋浴。使用充分的或局部的防爆通风, 保持空气中浓度到可接受的水平。

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate general or local explosion-proof ventilation to keep airborne levels to acceptable levels.

8.2.1 个人防护措施, 如个人防护装备: Individual protection measures, such as personal protective equipment:

眼睛/脸部保护: 戴上合适的防护眼镜或化学安全护目镜。

Eye/face protection:Wear appropriate protective eyeglasses or chemical safety goggles.

手的防护: 穿戴合适的手套防止皮肤暴露。

Hand protection:Wear appropriate gloves to prevent skin exposure.

身体防护: 穿合适的防护服, 防止皮肤暴露。

Body protection: Wear suitable protective clothing to prevent skin exposure .

呼吸防护: 根据地方和国家规定带防护罩。

Respiratory protection:Dust respirator Follow local and national regulations.

热危害: 穿戴适当的防护服以隔热。

Thermal hazards:Wear suitable protective clothing to prevent heat.

8.2.2 环境暴露控制 Environmental exposure controls:

避免排放到环境中 Avoid discharge into the environment.

According to local regulations and official regulations.

遵守当地的规定和官方规定。

## 9、物理和化学性质 Physical and chemical properties

9.1 基本的物理和化学性质 Information on basic physical and chemical properties

|           |                                    |
|-----------|------------------------------------|
| 外观 Appear | 纤维状粉末或颗粒 Fibrous powder or granule |
| 颜色 Colour | 白色或微黄色 White or yellowish          |

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|                                                              |                                                |
|--------------------------------------------------------------|------------------------------------------------|
| 气味 Odour                                                     | 无味 Odorless                                    |
| 气味阈值 Odour threshold                                         | 无 Not applicable                               |
| PH                                                           | 5.0-11                                         |
| 熔点℃ Melting point/range                                      | 300℃                                           |
| 沸点℃ Boiling point/range                                      | 无 Not applicable                               |
| 闪点 Flash point                                               | 无 Not applicable                               |
| 蒸发率 Evaporation rate                                         | 无 Not applicable                               |
| 可燃性 Flammability(solid, gas)                                 | 可能在高温可燃 May be combustible at high temperature |
| 燃点℃ Ignition temperature                                     | 无 Not applicable                               |
| 可燃性限值/爆炸极限 Upper/lower flammability/explosive limits         | 无 Not applicable                               |
| 气压 Vapour pressure                                           | 无 Not applicable                               |
| 蒸汽密度 Vapour density                                          | 无 Not applicable                               |
| 相对密度 (25℃) Relative Density                                  | 1.6g/m <sup>3</sup>                            |
| 体积密度 (kg/m <sup>3</sup> ) Bulk density                       | 200-1000                                       |
| 水溶性 (g/l) at 20℃ Water solubility                            | 可溶于水 Soluble in water                          |
| 自燃温度 Auto-ignition temperature                               | 无 Not applicable                               |
| 分解温度 Decomposition temperature                               | Above 300℃                                     |
| 动态粘度 Viscosity,dynamic(mPa s)                                | 5.0mPa.s Min                                   |
| 爆炸性 Explosive properties                                     | 无 Not applicable                               |
| 氧化特性 Oxidising properties                                    | 无 Not applicable                               |
| 其他信息 Other information                                       |                                                |
| 脂溶性 (指定的溶剂-油) Fat solubility(solvent-oil to be specified)etc | 无 Not applicable                               |
| 表面张力 Surface tension                                         | 无 Not applicable                               |
| 在水中的离解常数 (pKa) Dissociation constant in water                | 无 Not applicable                               |
| 氧化还原电位 Oxidation-reduction Potential                         | 无 Not applicable                               |

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比重 (g/ml) Specific gravity

0.3-1.5

### 10、稳定性和反应性 Stability and reactivity

#### 10.1 反应性: Reactivity:

这种物质在正常的储存和使用条件下稳定的;

The substance is stable under normal storage and handing conditions.

#### 10.2 化学稳定性 Chemical stability:

在正常储存和使用的条件下, 在封闭的容器, 在室温下是稳定的;

Stable at room temperature in closed containers under normal storage and handing conditions.

#### 10.3 危险反应的可能性 Possibility of hazardous reactions:

没有已知的危险反应 No dangerous reactions known;

#### 10.4 避免接触条件 Conditions to avoid

避免不相容的物质; 避免粉尘的产生, 避免过热条件以及, 暴露于潮湿空气或水;

Incompatible materials. Dust generation, excess heat, exposure to moist air or water.

#### 10.5 不相容物质 Incompatible materials

水以及酒精、丙酮等有机溶剂; Water, alcohol and acetone organic solvents

#### 10.6 危险分解产品 Hazardous decomposition products:

一氧化碳、刺激性和有毒气体、二氧化碳。

Carbon monoxide, irritating and toxic fumes and gases carbon dioxide.

### 11、毒性信息 Toxicological information

#### 11.1 毒性动力学、代谢和分布 Toxicokinetics, metabolism and distribution

无人体毒性数据 Non-human toxikological data: 无 Not available

#### 11.2 毒理学效应信息 Information on toxicological effects

Acute toxicity 急性中毒:

LD50(Oral,Rat) 老鼠口服半数致死量 27000mg/kg

LC50(Inhalation,Rat) 老鼠吸入半数致死量  $\geq 5800\text{mg/m}^3/4\text{H}$

皮肤腐蚀/过敏 Skin corrosion/irritation 未归入 Not classified

严重眼损伤/过敏 Serious eye damage/irritation 未归入 Not classified

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呼吸或皮肤过敏 Respiratory or skin sensitization 未归入 Not classified  
生殖细胞突变性 Germ cell mutagenicity 未归入 Not classified  
致癌性 Carcinogenicity 未归入 Not classified  
再生毒性 Reproductive toxicity 未归入 Not classified  
吸入性危害 Aspiration hazard 未归入 Not classified

## 12、生态信息 Ecological information

### 毒性 Toxicity

| 急性中毒 Acute toxicity |         | 时间 Time | 物种 Species | 方法 Method | 评估 Evaluation | 备注 Remarks |
|---------------------|---------|---------|------------|-----------|---------------|------------|
| 半数致死浓度 LC50         | 不适用 N/A | 96h     | 鱼 Fish     | OECD203   | 不适用 N/A       | 不适用 N/A    |
| 半最大效应浓度 EC50        | 不适用 N/A | 48h     | 水蚤 Daphnia | OECD202   | 不适用 N/A       | 不适用 N/A    |
| 半最大效应浓度 EC50        | 不适用 N/A | 72h     | 藻类 Algae   | OECD201   | 不适用 N/A       | 不适用 N/A    |

持久性和解性 Persistence and degradability 不适用 Not available  
生物累积的潜在可能性 Bioaccumulative potential 不适用 Not available  
土壤中的流动性 Mobility in soil 不适用 Not available  
PBT&vPvB 评估结果 Results of PBT&vPvB assessment 不适用 Not available  
其他不良影响 Other adverse effects 不适用 Not available

## 13、处理注意事项 Disposal considerations

### 13.1 废弃物处理方法 Waste treatment methods

化学废物处理器必须确定一个废弃的化学物是否为危险废物。此外，废物生成器必须咨询省市和区县危险废物法规，确保完整和准确的分类。

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

### 13.2 产品/包装处理 Product/ Packaging disposal

若空的包装容器内还有产品残留，其上的所有的注意事项标识需可见。其利用和处置需符合国家或地方法规。

If empty container retains product residues, all label precautions must be observed. Return for reuse or dispose according to national or local regulations.

## 14、运输信息 Transport information

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|                                                                                                                  | (ADR/RID)陆地运输 Land transport | (IMDG)海洋运输 Sea transport | (ICAO/IATA)航空运输 Air transport |
|------------------------------------------------------------------------------------------------------------------|------------------------------|--------------------------|-------------------------------|
| 联合国编号 UN-Number                                                                                                  | 无规定 Not regulated            | 无规定 Not regulated        | 无规定 Not regulated             |
| 联合国适当的航运的名字 UN Proper shipping name                                                                              | 无规定 Not regulated            | 无规定 Not regulated        | 无规定 Not regulated             |
| 运输风险分类 Transport hazard Class                                                                                    | 无规定 Not regulated            | 无规定 Not regulated        | 无规定 Not regulated             |
| 包装分组 Packaging group                                                                                             | 无规定 Not regulated            | 无规定 Not regulated        | 无规定 Not regulated             |
| 环境危害 Environmental hazards                                                                                       | 无规定 Not regulated            | 无规定 Not regulated        | 无规定 Not regulated             |
| 用户特别注意事项 Special precautions for user                                                                            | 见第 2.2 See section 2.2       | 见第 2.2 See section 2.2   | 见第 2.2 See section 2.2        |
| 根据 MARPOL 公约附录 II/73/78 和 IBC 规则的散装运输<br>Transport in bulk according to Annex I of MARPOL/73/78 and the IBC Code | 无规定 Not regulated            | 无规定 Not regulated        | 无规定 Not regulated             |

#### 15、法规资料 Regulation information

15.1 安全、健康和环境法规、为具体或混合的物质相关信息和授权：无

Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant information regarding authorization: Not applicable.

关于限制的相关信息 Relevant information regarding restriction: 无 Not applicable.

其他欧盟法规要求：必须遵守有关年轻人就业限制。技术上合格的人才能录用。

Other EU regulations: Employment restrictions concerning young person must be observed For use only by technically qualified individuals.

其他国家规定 Other National regulations: 无 Not applicable.

是否进行化学安全评估？ Chemical Safety Assessment has been carried out YES / NO

#### 16、其他信息 Other information

16.1 变更说明 indication of changes

无 Not applicable

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16.2 相关的风险术语 (数量和全文) Relevant R phrase (number and full text)

无 Not applicable

16.3 培训指导 Training instructions

无 Not applicable

16.4 更多信息 Further information

这一信息是基于我们目前的知识状态。该 SDS 已被编译, 仅供本产品

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.5 读者须知 Notice to reader

雇主只能将此信息作为其他信息收集的补充, 并将此信息的适用性做独立判断以确保其合理使用和保护员工的健康和安全。

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.

此信息不提供保障责任, 任何的产品使用不符合本安全数据表, 与其他产品或流程的组合使用, 是用户的责任。

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.