

DAZZLING®

Macro-Element Water-Soluble Fertilizer 20-20-20 + 2MgO + TE · 大量元素水溶肥 (20-20-20; 19-19-19 同样可供)

Issued by: Hubei Daheng Agricultural Science and Technology Development Co., Ltd.

出具单位: 湖北达亨农业科技发展有限公司

Group 9, Baozhuang Village, Huancheng, Zaoyang City, Hubei Province, China

湖北省枣阳市环城鲍庄村九组

Tel +86 138 1667 2110 · wangyazhong@dahengagro.com

Contact: Yazhong Wang (王亚中)

Date of issue: September 13, 2026 · English edition revised September 18, 2026

HS code: 3105200000 (also supplied as 19-19-19 + 2MgO + TE)

TDS 技术数据表

Technical Data Sheet — Macro-Element Water-Soluble Fertilizer

一、中文版本: 大量元素水溶肥 (20-20-20+2MgO+TE)

TDS 技术数据表 (Technical Data Sheet)

产品名称: 大量元素水溶肥料

品牌: DAZZLING

企业名称: 湖北达亨农业科技发展有限公司

HS编码: 3105200000

产品配方: 尿素 39.2%、磷酸二氢钾 38.4%、硝酸钾 15.0%、无水硫酸镁 6.90%、EDTA 混合微量元素 0.5%、

养分指标: 总养分 $\geq$ 60%, N:20%, P_2O_5 :20%, K_2O :20%, $MgO\geq$ 2.0%, 含螯合微量元素 (TE)

表格

项目

| 指标

| 外观

| 白色至类白色结晶粉末

| 水分 (H_2O)

| $\leq$ 3.0%

| pH (250倍)

| 3.0~9.0

| 水不溶物

| $\leq$ 1%

| 缩二脲

| $\leq$ 0.9%

| 重金属 (铅、镉、砷、汞、铬)

| 符合肥料相关国标出口限值

| 适用范围

| 农作物滴灌、冲施、叶面喷施

| 储存条件

| 阴凉干燥处密封存放, 避免暴晒受潮

| 备注: 本品不含激素; 适用于瓜果、蔬菜、经济作物。

Technical Data Sheet

English · Macro-Element Water-Soluble Fertilizer

Technical Data Sheet — Water Soluble NPK Fertilizer (20-20-20 + 2MgO + TE)

Product name: Water-soluble NPK fertilizer (20-20-20 + 2MgO + TE)

Brand: DAZZLING®

Company: Hubei Daheng Agricultural Science and Technology Development Co., Ltd.

Address: Group 9, Baozhuang Village, Huancheng, Zaoyang City, Hubei Province, China

Tel: +86 138 1667 2110

E-mail: wangyazhong@dahengagro.com

CAS No.: Not applicable (mixture)

HS code: 3105200000

Date of issue: September 13, 2026

Formula (raw materials): urea 39.2%, monopotassium phosphate 38.4%, potassium nitrate 15.0%, anhydrous magnesium sulfate 6.90%, EDTA chelated trace elements 0.5%

Nutrient specification: total nutrients $\geq 60\%$; N 20%; P_2O_5 20%; K_2O 20%; $MgO \geq 2.0\%$; contains chelated trace elements (TE)

Technical specifications (NY/T 1107-2020)

Item: Specification

Appearance: White to off-white crystalline powder

Moisture (H_2O): $\leq 3.0\%$

pH (1: 250 dilution): 3.0 – 9.0

Water-insoluble matter: $\leq 1.0\%$

Biuret: $\leq 0.9\%$

Heavy metals (Pb, Cd, As, Hg, Cr): within the limits of the applicable national export standard

Application: drip irrigation, soil drenching and foliar spray for crops

Storage: store in a cool, dry place, sealed; protect from direct sunlight and moisture

Remarks: Hormone-free. Suitable for fruit, vegetables and cash crops.

Note: the same product family is also supplied as 19-19-19 + 2MgO + TE; its technical data sheet is available on request.

SDS 化学品安全技术说明书

Safety Data Sheet — Macro-Element Water-Soluble Fertilizer (Chinese)

SDS 化学品安全技术说明书 (16 项, 中文)

大量元素水溶肥料 SDS

编制单位: 湖北达亨农业科技发展有限公司

第 1 部分 化学品及企业标识

产品名称: 大量元素水溶肥料 (20-20-20+2MgO+TE)

企业名称: 湖北达亨农业科技发展有限公司

1.3地址: 湖北省枣阳市环城鲍庄村九组

1.4联系电话: 13816672110

1.5邮箱: wangyazhong@dahengagro.com

1.7产品用途: 农用肥料, 作物滴灌、冲施、叶面施肥

第 2 部分 危险性概述

2.1 紧急概况: 白色结晶粉末, 本品不属于危险化学品、不属于危险货物。粉尘吸入可刺激呼吸道; 接触眼睛、皮肤会产生轻微刺激。 2.2 危害分类: 无 GHS 危险分类 2.3 警示词: 无 2.4 防范说明: 避免粉尘吸入; 操作时佩戴防尘口罩、护目镜; 接触皮肤、眼睛后用大量清水冲洗; 远离明火、可燃物, 禁止与强还原剂混存。

第 3 部分 成分 / 组成信息

表格

组分名称

| CAS 号

| 质量分数

| 尿素

| 57-13-6

| 39.2 %

| 磷酸二氢钾

| 7778-77-0

| 38.4 %

| 硝酸钾

| 7757-79-1

| 15.0 %

| 无水硫酸镁

| 7486-94-0

| 6.90 %

| EDTA 混合微量元素

| 混合物

| 0.5 %

| 第 4 部分 急救措施

4.1 吸入: 移至空气新鲜处, 如持续不适就医。 4.2 皮肤接触: 脱去污染衣物, 清水冲洗皮肤。 4.3 眼睛接触: 大量流动清水冲洗至少 15 分钟, 不适就医。 4.4 食入: 漱口, 大量饮水, 不要催吐, 感觉不适就医。

第 5 部分 消防措施

5.1 灭火介质: 水、干粉、泡沫灭火器。 5.2 燃烧危害: 本品本身不易燃, 但内含硝酸钾, 遇高温、可燃物可助燃; 高温分解会释放氮氧化物烟气。 5.3 灭火注意事项: 消防人员佩戴防毒面具, 在上风向灭火; 隔离可燃物。

第 6 部分 泄漏应急处理

6.1 个人防护：佩戴防尘口罩、手套。**6.2 环境防护：**防止流入下水道、河道。**6.3 清理方法：**收集泄漏粉末，清扫收集至密封容器，避免扬尘；残料用清水冲洗。

第 7 部分 操作处置与储存

7.1 操作：密闭操作，防尘；禁止进食饮水吸烟。**7.2 储存：**阴凉、干燥、通风库房；密封保存。远离易燃物、油脂、强还原剂，不可和有机物混放；避免高温暴晒。

第 8 部分 接触控制 / 个体防护

8.1 职业限值：无特定国标限值。**8.2 工程控制：**粉尘岗位通风。**8.3 防护装备：**防尘口罩、橡胶手套、护目镜。

第 9 部分 理化特性

外观：白色至类白色结晶粉末 **气味：**无特殊气味 **pH (1% 水溶液)：**4.0~6.0 **溶解度 (25℃)：**易溶于水 **熔点：**无 (混合物高温分解) **密度：**约 1.0~1.3 g/cm³ **燃烧性：**不燃，内含硝酸钾具有助燃属性

第 10 部分 稳定性和反应性

10.1 稳定性：常温稳定。**10.2 禁忌物：**强还原剂、易燃有机物、硫磺、金属粉末。**10.3 危险反应：**与强还原剂混合，高温下有反应风险。**10.4 分解产物：**高温分解产生氮氧化物。

第 11 部分 毒理学信息

混合物无急性剧毒；原料低毒。粉尘长期吸入可造成呼吸道刺激；无致癌、致畸数据。

第 12 部分 生态学信息

12.1 生态毒性：高浓度进入水体可造成水体富营养化。**12.2 生物降解：**可被植物吸收利用。**12.3 生物富集：**无生物富集性。

第 13 部分 废弃处置

13.1 废弃物性质：普通农用废料，不属于危险废物。**13.2 处置方法：**可作为肥料回用；大量废料收集后按当地法规处置，禁止直接排入水体。

第 14 部分 运输信息

本品不属于危险货物，普通货物运输 包装类别：无危险包装类别 **运输注意事项：**防雨防潮，避免暴晒，不可和易燃货物混装。

第 15 部分 法规信息

本产品按国内肥料法规管理；不属于《危险化学品目录》内物质；出口遵守中国海关及目的国农业、化学品管理法规。

第 16 部分 其他信息

本 SDS 基于当前配方编制，仅适用于本批次配方产品；配方变更需要重新修订 SDS。编制日期：2026 年 09 月 13 日

Safety Data Sheet

English · Macro-Element Water-Soluble Fertilizer

Safety Data Sheet — Water Soluble NPK Fertilizer (20-20-20 + 2MgO + TE)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

- 1.1 Product identifier:** water-soluble NPK fertilizer (20-20-20 + 2MgO + TE)
- 1.2 Company name:** Hubei Daheng Agricultural Science and Technology Development Co., Ltd.
- 1.3 Address:** Group 9, Baozhuang Village, Huancheng, Zaoyang City, Hubei Province, China
- 1.4 Business tel:** +86 138 1667 2110
- 1.6 Recommended use:** agricultural fertilizer for drip irrigation, fertigation and foliar application
- 1.7 Restrictions on use:** agricultural use only; do not ingest.

SECTION 2: Hazards identification

- 2.1 Overview:** white crystalline powder. This mixture is NOT a hazardous chemical and NOT dangerous goods. Dust may irritate the respiratory tract, skin and eyes.
- 2.2 GHS classification:** not classified.
- 2.3 Signal word:** none.
- 2.4 Precautionary statements:** avoid dust inhalation; wear a dust mask and safety goggles during handling; rinse skin and eyes with plenty of water after contact; keep away from open flame and combustible materials; do not mix with strong reducing agents.

SECTION 3: Composition / information on ingredients

- Urea:** 57-13-6 / 200-315-3 / 39.2%
- Monopotassium phosphate:** 7778-77-0 / 231-913-4 / 38.4%
- Potassium nitrate:** 7757-79-1 / 231-818-8 / 15.0%
- Anhydrous magnesium sulfate:** 7487-88-9 / 231-298-2 / 6.9%
- EDTA chelated trace elements (mixture):** Not applicable / Not applicable / 0.5%

SECTION 4: First aid measures

- 4.1 Inhalation:** move the casualty to fresh air. Seek medical help if discomfort persists.
- 4.2 Skin contact:** take off contaminated clothing; wash the skin thoroughly with water.
- 4.3 Eye contact:** flush the eyes with plenty of running water for at least 15 minutes. Seek medical attention if irritation continues.
- 4.4 Ingestion:** rinse the mouth and drink plenty of water. Do NOT induce vomiting. Get medical aid if the casualty feels unwell.

SECTION 5: Fire-fighting measures

- 5.1 Suitable extinguishing media:** water, dry powder, foam.
- 5.2 Hazards from combustion products:** the product is non-flammable, but the potassium nitrate component is an oxidizer and may accelerate combustion when mixed with combustible material. Thermal decomposition releases nitrogen oxides.
- 5.3 Advice for firefighters:** wear a respirator; fight the fire from upwind; isolate combustible materials.

SECTION 6: Accidental release measures

- 6.1 Personal precautions:** wear a dust mask and protective gloves.
- 6.2 Environmental precautions:** prevent leakage into drains and waterways.
- 6.3 Clean-up methods:** collect the spilled powder into a sealed container, avoiding dust generation; flush residues with clean water.

SECTION 7: Handling and storage

- 7.1 Handling:** work with ventilation to reduce dust. Do not eat, drink or smoke during handling.
- 7.2 Storage:** keep the container tightly closed in a cool, dry, ventilated warehouse. Keep away from flammables, grease and strong reducing agents. Do not store together with organic materials. Avoid high temperature and direct sunlight.

SECTION 8: Exposure controls / personal protection

8.1 Occupational exposure limit: no specific national limit.

8.2 **Engineering controls:** local ventilation in areas where dust is generated.

8.3 Personal protective equipment: dust respirator, rubber gloves, safety goggles.

SECTION 9: Physical and chemical properties

Appearance: white to off-white crystalline powder

Odor: odorless

pH (1% aqueous solution): 4.0 – 6.0

Solubility in water (25 °C): readily soluble

Melting point: decomposes on heating (no fixed melting point)

Density: approx. 1.0 – 1.3 g/cm³

Flammability: non-flammable; contains oxidizing potassium nitrate

SECTION 10: Stability and reactivity

10.1 **Stability:** stable at normal ambient temperature.

10.2 Incompatible materials: strong reducing agents, combustible organics, sulfur, metal powders.

10.3 **Hazardous reactions:** risk of reaction at high temperature if mixed with strong reducing agents.

10.4 Hazardous decomposition products: nitrogen oxides on high-temperature decomposition.

SECTION 11: Toxicological information

The mixture has no high acute toxicity; the raw materials are of low toxicity. Dust inhalation may cause respiratory irritation. No confirmed carcinogenic or teratogenic properties.

SECTION 12: Ecological information

12.1 **Ecotoxicity:** at high concentration, entry into a water body may cause eutrophication.

12.2 **Biodegradability:** absorbable and utilizable by plants.

12.3 **Bioaccumulation:** no bioaccumulation potential.

SECTION 13: Disposal considerations

13.1 **Waste category:** ordinary agricultural waste; non-hazardous waste.

13.2 **Disposal:** may be reused as fertilizer. Dispose of large quantities in accordance with local regulations. Do not discharge directly into a water system.

SECTION 14: Transport information

NOT CLASSIFIED AS DANGEROUS GOODS for transport.

Packing group: not applicable.

Transport advice: keep the package dry and protect it from sunlight. Do not load together with flammable goods.

SECTION 15: Regulatory information

This product is regulated as a fertilizer in China and is not listed in the Catalogue of Hazardous Chemicals. When exported, comply with China customs requirements and with the agricultural and chemical regulations of the destination country.

SECTION 16: Other information

This SDS is prepared for this specific formula and must be revised if the product composition changes.

Issue date: September 13, 2026