

# SAFETY DATA SHEET



## 1. Identification

**Product identifier** PERFECTION MINI SK 20-0-20  
**Other means of identification** None.  
**Recommended use** Turf & Ornamental Product - Plant Nutrition  
**Recommended restrictions** The ingredients used to produce this material contain crystalline silica in a form not-respirable or carcinogenic due to its manufacturing method and structure. Do not attempt to grind or mill this product.

### Manufacturer/Importer/Supplier/Distributor information

#### Manufacturer

**Company name** Wilbur-Ellis Company LLC  
**Address** Stanford Place III  
4582 South Ulster Street  
Denver, CO 80237  
United States  
**Telephone** Branded Products (800) 500-1698  
Information  
**E-mail** SDS@wilburellis.com  
**Emergency phone number** Chemtrec - Domestic (800) 424-9300  
Chemtrec - International +1 703-741-5970  
**Manufactured For:** Not available.

## 2. Hazard(s) identification

**Physical hazards** Not classified.  
**Health hazards** Not classified.  
**Environmental hazards** Not classified.  
**OSHA defined hazards** Not classified.

#### Label elements

**Hazard symbol** None.  
**Signal word** None.  
**Hazard statement** The mixture does not meet the criteria for classification.  
**Precautionary statement**  
**Prevention** Observe good industrial hygiene practices.  
**Response** Wash hands after handling.  
**Storage** Store away from incompatible materials.  
**Disposal** Dispose of waste and residues in accordance with local authority requirements.  
**Hazard(s) not otherwise classified (HNOC)** None known.  
**Supplemental information** None.

## 3. Composition/information on ingredients

#### Mixtures

| Chemical name                            | Common name and synonyms | CAS number    | %         |
|--|--------------------------|---------------|-----------|
| Urea                                     |                          | 57-13-6       | 40 - < 50 |
| Potassium Sulfate                        |                          | 7778-80-5     | 30 - < 40 |
| Ammonium Sulfate                         |                          | 7783-20-2     | 5 - < 10  |
| Iron Sucrate                             |                          | Not Available | 3 - < 5   |
| Calcium Carbonate                        |                          | 471-34-1      | 1 - < 3   |
| Other components below reportable levels |                          |               | 1 - < 3   |

**Composition comments** Occupational Exposure Limits for impurities are listed in Section 8.

## 4. First-aid measures

|  |  |
|--|--|
| Inhalation   | Move to fresh air. Call a physician if symptoms develop or persist.  |
| Skin contact   | Wash off with soap and water. Get medical attention if irritation develops and persists.                         |
| Eye contact  | Rinse with water. Get medical attention if irritation develops and persists.                                     |
| Ingestion  | Rinse mouth. Get medical attention if symptoms occur.  |
| Most important symptoms/effects, acute and delayed                     | Direct contact with eyes may cause temporary irritation.   |
| Indication of immediate medical attention and special treatment needed | Treat symptomatically.   |
| General information  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. |

## 5. Fire-fighting measures

|   |   |
|---|---|
| Suitable extinguishing media                                  | Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).                                   |
| Unsuitable extinguishing media                                | Do not use water jet as an extinguisher, as this will spread the fire.                        |
| Specific hazards arising from the chemical                    | During fire, gases hazardous to health may be formed.   |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |
| Fire fighting equipment/instructions                          | Use water spray to cool unopened containers.  |
| Specific methods  | Use standard firefighting procedures and consider the hazards of other involved materials.    |
| General fire hazards  | No unusual fire or explosion hazards noted.   |

## 6. Accidental release measures

|   |  |
|---|--|
| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.  |
| Methods and materials for containment and cleaning up               | The product is soluble in water. Stop the flow of material, if this is without risk. Following product recovery, flush area with water. For waste disposal, see section 13 of the SDS. |
| Environmental precautions   | Avoid discharge into drains, water courses or onto the ground.   |

## 7. Handling and storage

|  |  |
|--|--|
| Precautions for safe handling                                | Avoid prolonged exposure. Observe good industrial hygiene practices.                                   |
| Conditions for safe storage, including any incompatibilities | Store in tightly closed container. Store away from incompatible materials (see Section 10 of the SDS). |

## 8. Exposure controls/personal protection

### Occupational exposure limits

The following constituents are the only constituents of the product which have a PEL, TLV or other recommended exposure limit. At this time, the other constituents have no known exposure limits.

#### US. OSHA Table Z-1 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000)

| Components   | Type | Value    | Form  |
|--------------|------|----------|-------|
| Iron Sucrate | PEL  | 10 mg/m3 | Fume. |

#### US. OSHA Table Z-3 Permissible Exposure Limits (PEL) for Mineral Dusts (29 CFR 1910.1000)

| Components                       | Type | Value    | Form                 |
|----------------------------------|------|----------|----------------------|
| Calcium Carbonate (CAS 471-34-1) | TWA  | 5 mg/m3  | Respirable fraction. |
|                                  |      | 15 mg/m3 | Total dust.          |
|                                  |      | 50 mppcf | Total dust.          |
|                                  |      | 15 mppcf | Respirable fraction. |
|                                  |      | 5 mg/m3  | Respirable fraction. |
| Iron Sucrate                     | TWA  | 5 mg/m3  | Respirable fraction. |
|                                  |      | 15 mg/m3 | Total dust.          |

**US. OSHA Table Z-3 Permissible Exposure Limits (PEL) for Mineral Dusts (29 CFR 1910.1000)**

| Components | Type | Value    | Form                 |
|------------|------|----------|----------------------|
|            |      | 50 mppcf | Total dust.          |
|            |      | 15 mppcf | Respirable fraction. |

**US. ACGIH Threshold Limit Values (TLV)**

| Components   | Type | Value   | Form                 |
|--------------|------|---------|----------------------|
| Iron Sucrate | TWA  | 5 mg/m3 | Respirable fraction. |

**NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended**

| Components   | Type | Value      |
|--------------|------|------------|
| Iron Sucrate | IDLH | 2500 mg/m3 |

**US. NIOSH: Pocket Guide to Chemical Hazards Recommended Exposure Limits (REL)**

| Components                       | Type | Value    | Form           |
|----------------------------------|------|----------|----------------|
| Calcium Carbonate (CAS 471-34-1) | TWA  | 5 mg/m3  | Respirable.    |
|                                  |      | 10 mg/m3 | Total          |
| Iron Sucrate                     | TWA  | 5 mg/m3  | Dust and fume. |

**US. OARS. Workplace Environmental Exposure Level (WEEL) Guide**

| Components         | Type | Value    | Form               |
|--------------------|------|----------|--------------------|
| Urea (CAS 57-13-6) | TWA  | 10 mg/m3 | Total particulate. |

**Biological limit values**

No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls**

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin protection**

**Hand protection** Wear appropriate chemical resistant gloves.

**Other** Wear suitable protective clothing.

**Respiratory protection** In case of insufficient ventilation, wear suitable respiratory equipment.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General hygiene considerations**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

**9. Physical and chemical properties**

|   |                          |
|---|--------------------------|
| <b>Appearance</b>                                   | Granular Blend           |
| <b>Physical state</b>                               | Solid.                   |
| <b>Form</b>   | Solid Granules           |
| <b>Color</b>  | Various colored granules |
| <b>Odor</b>   | None.                    |
| <b>Odor threshold</b>                               | Not available.           |
| <b>pH</b>   | Not available.           |
| <b>Melting point/freezing point</b>                 | Not available.           |
| <b>Initial boiling point and boiling range</b>      | Not available.           |
| <b>Flash point</b>                                  | Not available.           |
| <b>Evaporation rate</b>                             | Not available.           |
| <b>Flammability (solid, gas)</b>                    | Not available.           |
| <b>Upper/lower flammability or explosive limits</b> |                          |
| <b>Explosive limit - lower (%)</b>                  | Not available.           |

|  |                |
|--|----------------|
| <b>Explosive limit - upper (%)</b>             | Not available. |
| <b>Vapor pressure</b>                          | Not available. |
| <b>Vapor density</b>                           | Not available. |
| <b>Relative density</b>                        | Not available. |
| <b>Solubility(ies)</b>                         |                |
| <b>Solubility (water)</b>                      | 75 %           |
| <b>Partition coefficient (n-octanol/water)</b> | Not available. |
| <b>Auto-ignition temperature</b>               | Not available. |
| <b>Decomposition temperature</b>               | Not available. |
| <b>Viscosity</b>                               | Not available. |
| <b>Other information</b>                       |                |
| <b>Explosive properties</b>                    | Not explosive. |
| <b>Oxidizing properties</b>                    | Not oxidizing. |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.                                   |
| <b>Conditions to avoid</b>                | Contact with incompatible materials.  |
| <b>Incompatible materials</b>             | Strong oxidizing agents.  |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.  |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | Prolonged inhalation may be harmful.                     |
| <b>Skin contact</b> | No adverse effects due to skin contact are expected.     |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation. |
| <b>Ingestion</b>    | Expected to be a low ingestion hazard.                   |

**Symptoms related to the physical, chemical and toxicological characteristics** Direct contact with eyes may cause temporary irritation.

### Information on toxicological effects

**Acute toxicity** Not known.

| Product                          | Species | Test Results           |
|----------------------------------|---------|------------------------|
| PERFECTION MINI SK 20-0-20       |         |                        |
| <b>Acute</b>                     |         |                        |
| <b>Dermal</b>                    |         |                        |
| Solid                            |         |                        |
| LD50                             | Rabbit  | > 2000 mg/kg, 24 hours |
| <b>Oral</b>                      |         |                        |
| Solid                            |         |                        |
| LD50                             | Rat     | > 10000 mg/kg          |
| Components                       | Species | Test Results           |
| Ammonium Sulfate (CAS 7783-20-2) |         |                        |
| <b>Acute</b>                     |         |                        |
| <b>Dermal</b>                    |         |                        |
| LD50                             | Mouse   | > 2000 mg/kg           |
|                                  | Rat     | > 2000 mg/kg           |

| Components  | Species   | Test Results  |
|---|---|---|
| <b>Oral</b>   |   |   |
| LD50  | Mouse   | > 2000 mg/kg  |
|   | Rat   | 4250 mg/kg  |
| Calcium Carbonate (CAS 471-34-1)                                      |   |   |
| <b><u>Acute</u></b>   |   |   |
| <b>Dermal</b>   |   |   |
| LD50  | Rat   | > 2000 mg/kg, 24 Hours                              |
| <b>Oral</b>   |   |   |
| LD50  | Rat   | > 2000 mg/kg  |
| Iron Sucrate  |   |   |
| <b><u>Acute</u></b>   |   |   |
| <b>Oral</b>   |   |   |
| LD50  | Rat   | > 10000 mg/kg                                       |
| Potassium Sulfate (CAS 7778-80-5)                                     |   |   |
| <b><u>Acute</u></b>   |   |   |
| <b>Dermal</b>   |   |   |
| LD50  | Rat   | > 2000 mg/kg, 24 Hours                              |
| <b>Oral</b>   |   |   |
| LD50  | Rat   | > 2000 mg/kg  |
| Urea (CAS 57-13-6)  |   |   |
| <b><u>Acute</u></b>   |   |   |
| <b>Oral</b>   |   |   |
| LD50  | Mouse   | 13000 mg/kg   |
|   | Rat   | 15000 mg/kg   |
| <b>Other</b>  |   |   |
| LD50  | Mouse   | 9200 mg/kg  |
|   | Rat   | 8200 mg/kg  |
| <b>Skin corrosion/irritation</b>                                      | Due to partial or complete lack of data the classification is not possible. |   |
| <b>Serious eye damage/eye irritation</b>                              | Due to partial or complete lack of data the classification is not possible. |   |
| <b>Respiratory or skin sensitization</b>                              |   |   |
| <b>Respiratory sensitization</b>                                      | Due to partial or complete lack of data the classification is not possible. |   |
| <b>Skin sensitization</b>   | Due to partial or complete lack of data the classification is not possible. |   |
| <b>Germ cell mutagenicity</b>   | Due to partial or complete lack of data the classification is not possible. |   |
| <b>Carcinogenicity</b>  | Due to partial or complete lack of data the classification is not possible. |   |
| <b>IARC Monographs. Overall Evaluation of Carcinogenicity</b>         |   |   |
| Iron Sucrate (CAS Not Available)                                      |   | 3 Not classifiable as to carcinogenicity to humans. |
| <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)</b> |   |   |
| Not listed.   |   |   |
| <b>US. National Toxicology Program (NTP) Report on Carcinogens</b>    |   |   |
| Not listed.   |   |   |
| <b>Reproductive toxicity</b>  | Due to partial or complete lack of data the classification is not possible. |   |
| <b>Specific target organ toxicity - single exposure</b>               | Due to partial or complete lack of data the classification is not possible. |   |
| <b>Specific target organ toxicity - repeated exposure</b>             | Due to partial or complete lack of data the classification is not possible. |   |
| <b>Aspiration hazard</b>  | Due to partial or complete lack of data the classification is not possible. |   |
| <b>Chronic effects</b>  | Prolonged inhalation may be harmful.  |   |
| <b>Further information</b>  | This product has no known adverse effect on human health.                   |   |

## 12. Ecological information

|                                      |  |
|--------------------------------------|--|
| <b>Ecotoxicity</b>                   | The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment. |
| <b>Persistence and degradability</b> | No data is available on the degradability of any ingredients in the mixture.   |
| <b>Bioaccumulative potential</b>     | No data available.   |
| <b>Mobility in soil</b>              | This product is water soluble and may disperse in soil.  |
| <b>Other adverse effects</b>         | No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.            |

## 13. Disposal considerations

|  |  |
|--|--|
| <b>Disposal instructions</b>                 | Collect and reclaim or dispose in sealed containers at licensed waste disposal site.   |
| <b>Local disposal regulations</b>            | Dispose in accordance with all applicable regulations.   |
| <b>Hazardous waste code</b>                  | The waste code should be assigned in discussion between the user, the producer and the waste disposal company.   |
| <b>Waste from residues / unused products</b> | Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). |
| <b>Contaminated packaging</b>                | Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.       |

## 14. Transport information

|   |                                   |
|---|-----------------------------------|
| <b>DOT</b>  | Not regulated as dangerous goods. |
| <b>IATA</b>   | Not regulated as dangerous goods. |
| <b>IMDG</b>   | Not regulated as dangerous goods. |
| <b>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b> | Not applicable.                   |

## 15. Regulatory information

|  |  |  |
|--|--|--|
| <b>US federal regulations</b>  | This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. All components are listed on or exempted from the U.S. EPA TSCA Inventory List. |  |
| <b>Toxic Substances Control Act (TSCA)</b>   | All components of the mixture on the TSCA 8(b) inventory are designated "active".  |  |
| <b>TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)</b>   |  |  |
| Ammonium Sulfate (CAS 7783-20-2)   | 1.0 % One-Time Export Notification only.   |  |
| <b>Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)</b> |  |  |
| Ammonium Sulfate (CAS 7783-20-2)   | 721.11253  |  |
| <b>CERCLA Hazardous Substance List (40 CFR 302.4)</b>  |  |  |
| Not listed.  |  |  |
| <b>SARA 304 Emergency release notification</b>   |  |  |
| Not regulated.   |  |  |
| <b>OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)</b>  |  |  |
| Not listed.  |  |  |
| <b>Superfund Amendments and Reauthorization Act of 1986 (SARA)</b>   |  |  |
| <b>SARA 302 Extremely hazardous substance</b>  |  |  |
| Not listed.  |  |  |
| <b>SARA 311/312 Hazardous chemical</b>   | No   |  |
| <b>SARA 313 (TRI reporting)</b>  |  |  |
| Not regulated.   |  |  |

## Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

**Safe Drinking Water Act (SDWA)** Not regulated.

## US state regulations

### California Proposition 65



**WARNING:** This product can expose you to cadmium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

Cadmium (CAS 7440-43-9)

## 16. Other information, including date of preparation or last revision

**Issue date** 12-08-2024

**Version #** 01

**NFPA ratings** Health: 1  
Flammability: 0  
Instability: 0

**NFPA ratings**



## Disclaimer

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