SAFETY DATA SHEET



1. Identification

Product identifier PERFECTION VASEKA PREMIX 5-3-4

Other means of identification None.

Recommended use Ag 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

(800) 500-1698

product.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Wilbur-Ellis Company LLC **Address** 4582 South Ulster Street Ste. 400

Denver. CO 80237 **United States**

Telephone Branded Products

Information

E-mail SDS@wilburellis.com

Chemtrec - Domestic **Emergency phone number** (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. Not classified. **Environmental hazards OSHA** defined hazards Not classified.

Label elements

Hazard symbol None. None. Signal word

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 | % |
|-------------------|--------------------------|------------|-----------|
| Limestone | | 1317-65-3 | 30 - < 40 |
| Dolomite | | 16389-88-1 | 10 - < 20 |
| Calcium Phosphate | | 7758-23-8 | 5 - < 10 |
| Potassium Nitrate | | 7757-79-1 | 5 - < 10 |

| Chemical name | Common name and synonyms | CAS number | % |
|-----------------------------------|--------------------------|---------------|-----------|
| Ferrous Sulfate | | 7720-78-7 | 3 - < 5 |
| Iron Sucrate | | Not Available | 1 - < 3 |
| Calcium Carbonate | | 471-34-1 | < 1 |
| Calcium Sulfate | | 7778-18-9 | < 1 |
| Manganese Sulfate | | 7785-87-7 | < 1 |
| Zinc Sulfate Anhydrous | | 7733-02-0 | < 1 |
| Other components below reportable | levels | | 30 - < 40 |

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

delaved

Coughing.

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 Keep formation of airborne dusts to a minimum. Provide appropriate exhaust ventilation at

places where dust is formed. Do not breathe dust. Avoid prolonged exposure.

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 Exposur Components | e Limits (PEL) for Air Contaminants Type | (29 CFR 1910.1000) Value |) Form |
|---|--|-----------------------------|----------------------|
| Calcium Sulfate (CAS 7778-18-9) | PEL | 5 mg/m3 | Respirable fraction. |
| | | 15 mg/m3 | Total dust. |
| Iron Sucrate | PEL | 10 mg/m3 | Fume. |
| Limestone (CAS 1317-65-3) | PEL | 5 mg/m3 | Respirable fraction. |
| | | 15 mg/m3 | Total dust. |
| Manganese Sulfate (CAS 7785-87-7) | Ceiling | 5 mg/m3 | |
| US. OSHA Table Z-3 Permissible Exposur Components | e Limits (PEL) for Mineral Dusts (29 Type | CFR 1910.1000) 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. |
| Calcium Sulfate (CAS 7778-18-9) | TWA | 5 mg/m3 | Respirable fraction. |
| | | 15 mg/m3 | Total dust. |
| | | 50 mppcf | Total dust. |
| | | 15 mppcf | Respirable fraction. |
| Dolomite (CAS 16389-88-1) | TWA | 5 mg/m3 | Respirable fraction. |
| | | 15 mg/m3 | Total dust. |
| | | 50 mppcf | Total dust. |
| | | 15 mppcf | Respirable fraction. |
| Iron Sucrate | TWA | 5 mg/m3 | Respirable fraction. |
| | | 15 mg/m3 | Total dust. |
| | | 50 mppcf | Total dust. |
| | | 15 mppcf | Respirable fraction. |
| Limestone (CAS 1317-65-3) | TWA | 5 mg/m3 | Respirable fraction. |
| | | 15 mg/m3 | Total dust. |
| | | 50 mppcf | Total dust. |
| | | 15 mppcf | Respirable fraction. |
| US. ACGIH Threshold Limit Values (TLV) Components | Туре | Value | Form |
| Calcium Sulfate (CAS 7778-18-9) | TWA | 10 mg/m3 | Inhalable fraction. |
| Ferrous Sulfate (CAS 7720-78-7) | TWA | 1 mg/m3 | |
| Iron Sucrate | TWA | 5 mg/m3 | Respirable fraction. |
| Manganese Sulfate (CAS | TWA | 0.1 mg/m3 | Inhalable fraction. |
| 7785-87-7) | | 0.02 mg/m3 | Respirable fraction. |
| NIOCII Immo diatale December 4-14 | Haalth (IDLH) Valeras as a second | 9, | |
| NIOSH. Immediately Dangerous to Life or Components | Type | Value | |
| Iron Sucrate | IDLH | 2500 mg/m3 | |
| Manganese Sulfate (CAS 7785-87-7) | IDLH | 500 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 | |
| Calcium Sulfate (CAS 7778-18-9) | TWA | 5 mg/m3 | Respirable. | |
| | | 10 mg/m3 | Total | |
| Ferrous Sulfate (CAS 7720-78-7) | TWA | 1 mg/m3 | | |
| Iron Sucrate | TWA | 5 mg/m3 | Dust and fume. | |
| Limestone (CAS 1317-65-3) | TWA | 5 mg/m3 | Respirable. | |
| | | 10 mg/m3 | Total | |
| Manganese Sulfate (CAS 7785-87-7) | STEL | 3 mg/m3 | Fume. | |
| | TWA | 1 mg/m3 | Fume. | |

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

Exposure guidelines Occupational exposure to nuisance dust (total and respirable) and respirable crystalline silica

should be monitored and controlled.

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.

Exposure Limit.

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

Appearance Granular Blend

Physical state Solid.

Form Solid Granules

Color Various colored granules

Odor None.

Odor thresholdNot available.pHNot available.Melting point/freezing pointNot available.Initial boiling point and boilingNot available.

range

Flash point

Evaporation rate

Not available.

Flammability (solid, gas)

Not available.

Upper/lower flammability or explosive limits

Jpper/lower flammability or explosive limits

Explosive limit - lower (%) Not available.

Explosive limit - upper (%)Not available.Vapor pressureNot available.Vapor densityNot available.Relative densityNot available.

Solubility(ies)

Solubility (water) 75 %

Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.

Other information

Explosive properties Not explosive. **Oxidizing properties** Not oxidizing.

10. Stability and reactivity

Reactivity The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoidContact with incompatible materials.

Incompatible materials Acids. Fluorine.

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

Inhalation Prolonged inhalation may be harmful.

Skin contact Prolonged skin contact may cause temporary irritation.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the

physical, chemical and toxicological characteristics

Coughing.

Information on toxicological effects

Acute toxicity Not known.

Product Species Test Results

PERFECTION VASEKA PREMIX 5-3-4

Acute Dermal

Solid

LD50 Rabbit > 2000 mg/kg, 24 hours

Oral

Solid

LD50 Rat > 10000 mg/kg

Components Species Test Results

Calcium Carbonate (CAS 471-34-1)

Acute Dermal

LD50 Rat > 2000 mg/kg, 24 Hours

Components **Species Test Results** Oral

LD50 Rat > 2000 mg/kg

Calcium Phosphate (CAS 7758-23-8)

Acute Oral

LD50 Rat > 2000 mg/kg

Calcium Sulfate (CAS 7778-18-9)

Acute Inhalation Dust

LC50

Rat > 3.26 mg/l, 4 Hours

Oral

LD50 Rat > 1581 mg/kg

Ferrous Sulfate (CAS 7720-78-7)

Acute Dermal

LD50 Rat > 2000 mg/kg, 24 Hours

Iron Sucrate

Acute

Oral

LD50 Rat > 10000 mg/kg

Limestone (CAS 1317-65-3)

Acute

Oral

LD50 Rat > 2000 mg/kg

Manganese Sulfate (CAS 7785-87-7)

Acute

Inhalation

LC50 Rat > 4.45 mg/l, 4 Hours

Oral

LD50 Rat 2150 mg/kg

Potassium Nitrate (CAS 7757-79-1)

Acute Dermal

LD50

Rat > 5000 mg/kg, 24 Hours

Oral

LD50 Rabbit 1900 mg/kg

Rat > 2000 mg/kg

Zinc Sulfate Anhydrous (CAS 7733-02-0)

Acute Dermal

LD50 Rabbit > 2000 mg/kg, 24 Hours

Skin corrosion/irritation Prolonged skin contact may cause temporary irritation. Serious eye damage/eye Direct contact with eyes may cause temporary irritation.

irritation

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

Skin sensitization This product is not expected to cause skin sensitization. Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity

In 1997, IARC (the International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans. However in making the overall evaluation, IARC noted that "carcinogenicity was not detected in all industrial circumstances studied. Carcinogenicity may be dependent on inherent characteristics of the crystalline silica or on external factors affecting its biological activity or distribution of its polymorphs." (IARC Monographs on the evaluation of the carcinogenic risks of chemicals to humans, Silica, silicates dust and organic fibres, 1997, Vol. 68, IARC, Lyon, France.) In June 2003, SCOEL (the EU Scientific Committee on Occupational Exposure Limits) concluded that the main effect in humans of the inhalation of respirable crystalline silica dust is silicosis. "There is sufficient information to conclude that the relative risk of lung cancer is increased in persons with silicosis (and, apparently, not in employees without silicosis exposed to silica dust in quarries and in the ceramic industry). Therefore, preventing the onset of silicosis will also reduce the cancer risk..." (SCOEL SUM Doc 94-final, June 2003) According to the current state of the art, worker protection against silicosis can be consistently assured by respecting the existing regulatory occupational exposure limits. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. Risk of cancer cannot be excluded with prolonged exposure. Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Iron Sucrate (CAS Not Available) 3 Not classifiable as to carcinogenicity to humans.

This product is not expected to cause reproductive or developmental effects.

Potassium Nitrate (CAS 7757-79-1) 2A Probably carcinogenic to humans.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity Specific target organ toxicity -

Not classified.

single exposure

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

Further information This product has no known adverse effect on human health.

12. Ecological information

Ecotoxicity 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.

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential No data available.

Mobility in soil This product is water soluble and may disperse in soil.

Other adverse effects 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

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

Local disposal regulations Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the

waste disposal company.

Waste from residues / unused

products

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.

Contaminated packaging 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

DOT

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and Not applicable.

the IBC Code

15. Regulatory information

US federal regulations

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.

Toxic Substances Control Act (TSCA)

All components of the mixture on the TSCA 8(b) inventory are designated "active".

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No

chemical

SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. | |
|---|------------|----------|--|
| Manganese compounds | 7785-87-7 | < 1 | |
| Nitrate compounds (water dissociable; reportable only when in aqueous solution) | 7757-79-1 | 5 - < 10 | |
| Zinc Compounds | 7733-02-0 | < 1 | |

Other federal regulations

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

Manganese Sulfate (CAS 7785-87-7)

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

Not regulated.

Safe Drinking Water Act (SDWA)

Contains component(s) regulated under the Safe Drinking Water Act.

US state regulations

California Proposition 65



WARNING: This product can expose you to chemicals including 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.

Cadmium (CAS 7440-43-9)

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

Issue date 06-09-2025

Version # 01 NFPA ratings

Health: 1 Flammability: 0 Instability: 0

NFPA ratings



Disclaimer

This information was developed from information on the constituent materials. No warranty is expressed or implied regarding the completeness or continuing accuracy of the information contained herein, and the manufacturer disclaims all liability for reliance thereon. The user should satisfy himself that he has all current data relevant to his particular use.

Material name: PERFECTION VASEKA PREMIX 5-3-4 5670 Version #: 01 Issue date: 06-09-2025