# **SAFETY DATA SHEET**



## 1. Identification

Product identifier Perfection Royal Green 20-3-16

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** 3300 S. Parker Rd Ste. 500

Aurora, CO 80014

**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

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	30 - < 40
Potassium Chloride		7447-40-7	20 - < 30
Ammonium Sulfate		7783-20-2	10 - < 20
Monoammonium Phosphate		7722-76-1	5 - < 10
Calcium Carbonate		471-34-1	3 - < 5
Iron Sucrate		Not Available	3 - < 5
Other components below reportable	e levels		3 - < 5

Composition comments Occupational Exposure Limits for impurities, if present, are listed in Section 8.

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#### 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. Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists. Eye contact

Ingestion Rinse mouth. Get medical attention if symptoms occur. Dusts may irritate the respiratory tract, skin and eyes. Most important

symptoms/effects, acute and

delayed

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

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). 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.

No unusual fire or explosion hazards noted. General fire hazards

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Avoid the generation of dusts during clean-up. Collect dust using a vacuum cleaner equipped with HEPA filter. Stop the flow of material, if this is without risk.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. 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

Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places

where dust is formed. Avoid prolonged exposure. Practice good housekeeping.

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store in a well-ventilated place. 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 Limits for Air	Contaminants	(29 CFR 1910.1000)
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Components	Туре	Value	Form
Calcium Carbonate (CAS 471-34-1)	PEL	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
Iron Sucrate	PEL	10 mg/m3	Fume.

US. OSHA Table Z-3 (29 CFR 191) Components	Туре	Value	Form
	-		
Iron Sucrate	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Limit Value	es		
Components	Туре	Value	Form
Iron Sucrate	TWA	5 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to Che	mical Hazards		
Components	Туре	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. Workplace Environmental Ex	posure Level (WEEL) Guides		
Components	Туре	Value	Form
Urea (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.

**Biological limit values** 

Appropriate engineering

controls

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

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. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation which may generate dusts, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.

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 Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels

exceeding the exposure limits.

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

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

Granular Blend **Appearance** 

Solid. **Physical state** 

Solid Granules **Form** 

Color Various colored granules

Odor None.

**Odor threshold** Not available. Not available. pН Melting point/freezing point Not available. Not available. Initial boiling point and boiling

range

Flash point Not available. **Evaporation rate** Not available. Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower Not available.

(%)

Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available. Explosive limit - upper (%) Not available.

Vapor pressure Not available. Not available. Vapor density Relative density Not available.

Solubility(ies)

80 % Solubility (water)

Not available. **Auto-ignition temperature** Not available. **Decomposition temperature Viscosity** Not available.

Other information

Not explosive. **Explosive properties** 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 avoid Avoid temperatures exceeding the decomposition temperature. Contact with incompatible

materials.

Incompatible materials Strong oxidizing agents.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

## 11. Toxicological information

Information on likely routes of exposure

Dust may irritate respiratory system. Prolonged inhalation may be harmful. Inhalation

Dust or powder may irritate the skin. Skin contact

Dust may irritate the eyes. Eve contact

Ingestion Expected to be a low ingestion hazard.

Symptoms related to the physical, chemical and toxicological characteristics Dusts may irritate the respiratory tract, skin and eyes.

#### Information on toxicological effects

Acute toxicity Not known.

**Test Results Product Species** 

Perfection Royal Green 20-3-16

**Acute** Dermal Solid

LD50 Rabbit > 2000 mg/kg, 24 hours

Oral Solid

LD50 Rat 10000 mg/kg

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Components **Species Test Results** Ammonium Sulfate (CAS 7783-20-2) **Acute** Dermal LD50 Mouse > 2000 mg/kg Rat > 2000 mg/kg Oral LD50 Mouse > 2000 mg/kg Rat 4250 mg/kg Calcium Carbonate (CAS 471-34-1) **Acute** Dermal LD50 Rat > 2000 mg/kg, 24 Hours Oral LD50 Rat > 2000 mg/kg Iron Sucrate **Acute** Oral LD50 Rat > 10000 mg/kg Monoammonium Phosphate (CAS 7722-76-1) **Acute Dermal** LD50 Rabbit > 5000 mg/kg, 24 Hours Rat > 5000 mg/kg, 24 Hours Inhalation LC50 Rat > 5 mg/l, 4 Hours Oral LD50 Rat 3252 mg/kg Potassium Chloride (CAS 7447-40-7) Acute Oral Rat LD50 3020 mg/kg Urea (CAS 57-13-6) **Acute** Oral LD50 Mouse 13000 mg/kg Rat 15000 mg/kg Other LD50 Mouse 9200 mg/kg Rat 8200 mg/kg 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.

This product is not expected to cause skin sensitization. Skin sensitization

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

mutagenic or genotoxic.

Carcinogenicity 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. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed

US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

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

Specific target organ toxicity -

Not classified.

single exposure

Specific target organ toxicity -

y - Not classified.

repeated exposure

**Aspiration hazard** Not an aspiration hazard.

**Chronic effects** Prolonged inhalation may be harmful.

**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. No data available.

Other adverse effects

Mobility in soil

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 (see:

Disposal instructions).

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

rding to Not applicable.

Annex II of MARPOL 73/78 and 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

One or more components of the mixture are not on the TSCA 8(b) inventory

U.S. EPA TSCA Inventory List.

or are designated "inactive".

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

Ammonium Sulfate (CAS 7783-20-2)

1.0 % One-Time Export Notification only.

**CERCLA Hazardous Substance List (40 CFR 302.4)** 

Not listed.

SARA 304 Emergency release notification

Toxic Substances Control Act (TSCA)

Not regulated.

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## OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

## 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.	
AMMONIA (INCLUDES ANHYDROUS AMMONIA	7722-76-1	5 - < 10	
AND AQUEOUS AMMONIA FROM WATER			
DISSOCIABLE AMMONIUM SALTS AND OTHER			
SOURCES; 10% OF TOTAL AQUEOUS AMMONIA	A		
IS REPORTABLE UNDER THIS LISTING)			
AMMONIA (INCLUDES ANHYDROUS AMMONIA	7783-20-2	10 - < 20	
AND AQUEOUS AMMONIA FROM WATER			
DISSOCIABLE AMMONIUM SALTS AND OTHER			
SOURCES; 10% OF TOTAL AQUEOUS AMMONIA	A		
IS REPORTABLE UNDER THIS LISTING)			

#### 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.

Cadmium (CAS 7440-43-9)

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

**Issue date** 02-02-2021

Version # 01

NFPA ratings Health: 1

Flammability: 0 Instability: 0

**NFPA** ratings



**Disclaimer** Not available.

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