# SAFETY DATA SHEET



## 1. Identification

**Product identifier** Perfection Mini Legacy 18-3-18

Other means of identification

Recommended use Turf & Ornamental Product - Plant Nutrition

**Recommended restrictions** None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Wilbur-Ellis Company LLC **Address** 3300 S. Parker Rd Ste. 500

> Aurora, CO 80014 **United States**

**Branded Products** 

**Telephone** (800) 500-1698

Information

SDS@wilburellis.com E-mail

Chemtrec - Domestic **Emergency phone number** (800) 424-9300

Chemtrec - International +1 703-741-5970

2. Hazard(s) identification

Not classified. **Physical hazards** 

Acute toxicity, inhalation **Health hazards** Category 4

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

Label elements



Signal word Warning

Harmful if inhaled. **Hazard statement** 

**Precautionary statement** 

Avoid breathing dust. Use only outdoors or in a well-ventilated area. Prevention

If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a poison Response

center/doctor if you feel unwell.

Store away from incompatible materials. **Storage** 

**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	%
Potassium Sulfate		7778-80-5	30 - < 40
Urea		57-13-6	30 - < 40
Ammonium Sulfate		7783-20-2	10 - < 20
Iron Oxysulfate		Not Available	5 - < 10
Monoammonium Phosphate		7722-76-1	5 - < 10
Potassium Humate		68514-28-3	1 - < 3
Other components below reportab	le levels		5 - < 10

Material name: Perfection Mini Legacy 18-3-18 5264 Version #: 01 Issue date: 02-23-2021

**Composition comments** 

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

#### 4. First-aid measures

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Call a poison center or doctor/physician if you feel unwell.

Skin contact

Rinse with water. Get medical attention if irritation develops and persists.

Eve contact

Do not rub eyes. 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

Dusts may irritate the respiratory tract, skin and eyes.

Indication of immediate medical attention and special

treatment needed

Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim

under observation. Symptoms may be delayed.

**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.

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. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air). 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.

Never return spills to original containers for re-use. 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. Avoid breathing dust. Avoid prolonged exposure. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

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.

	r Air Contaminants (29 CFR 1910.1000)		F
Components	Туре	Value	Form
Iron Oxysulfate	PEL	10 mg/m3	Fume.
US. OSHA Table Z-3 (29 CFR 1	1910.1000)		
Components	Туре	Value	Form
Iron Oxysulfate	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.
US. ACGIH Threshold Limit Va	alues		
Components	Туре	Value	Form
Iron Oxysulfate	TWA	5 mg/m3	Respirable fraction.
US. NIOSH: Pocket Guide to C	Chemical Hazards		
Components	Туре	Value	Form
Iron Oxysulfate	TWA	5 mg/m3	Dust and fume.
US. Workplace Environmental	l Exposure Level (WEEL) Guides		
Components	Туре	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. 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** Chemical respirator with organic vapor cartridge, full facepiece, dust and mist filter.

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. Chemical respirator with organic vapor cartridge, full facepiece,

dust and mist filter.

**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 threshold Not available.

PH Not available.

Melting point/freezing point Not available.

Initial boiling point and boiling Not available.

range

Flash point Not available.

Not available. **Evaporation rate** Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits

(%)

Not available.

Flammability limit - upper

Flammability limit - lower

(%)

Not available.

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

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

Solubility(ies)

80 % Solubility (water)

Not available. **Auto-ignition temperature Decomposition temperature** Not available. **Viscosity** Not 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 avoid Avoid temperatures exceeding the decomposition temperature. Contact with incompatible

materials.

Strong oxidizing agents. Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

### 11. Toxicological information

## Information on likely routes of exposure

Inhalation Harmful if inhaled.

Skin contact Dust or powder may irritate the skin.

Eye contact Dust may irritate the eyes.

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

Harmful if inhaled. **Acute toxicity** 

**Product Species Test Results** 

Perfection Mini Legacy 18-3-18

Acute **Dermal** Solid

LD50 Rabbit > 2000 mg/kg, 24 hours

Oral Solid

Rat LD50 6800 mg/kg

Material name: Perfection Mini Legacy 18-3-18 5264 Version #: 01 Issue date: 02-23-2021

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 Iron Oxysulfate **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 Humate (CAS 68514-28-3) Acute **Dermal** LD50 Rat > 2000 mg/kg, 24 Hours Oral LD50 Rat > 2000 mg/kg Potassium Sulfate (CAS 7778-80-5) **Acute** Dermal > 2000 mg/kg, 24 Hours LD50 Rat Oral Rat > 2000 mg/kg LD50 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 Germ cell mutagenicity No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. Not classifiable as to carcinogenicity to humans. Carcinogenicity

IARC Monographs. Overall Evaluation of Carcinogenicity

Iron Oxysulfate (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.

**Species** 

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Not an aspiration hazard.

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

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.

**Test Results** 

Product
Perfection Mini Legacy 18-3-18

Aquatic

Crustacea EC50 Daphnia 333.5914 mg/l, 48 hours estimated Fish LC50 Fish 440.123 mg/l, 96 hours estimated

Persistence and degradability

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

Bioaccumulative potential No data available.

Mobility in soil No data available.

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. Dispose of

contents/container in accordance with local/regional/national/international regulations.

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** 

the IBC Code

Not regulated as dangerous goods.

Transport in bulk according to Annex II of MARPOL 73/78 and

Not applicable.

# 15. Regulatory information

US federal regulations This product is 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.

Material name: Perfection Mini Legacy 18-3-18 5264 Version #: 01 Issue date: 02-23-2021

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

Not regulated.

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

Yes

chemical

Classified hazard

Acute toxicity (any route of exposure)

categories

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	<b>\</b>		
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	<b>\</b>		
IS REPORTABLE UNDER THIS LISTING)			
DISSOCIABLE AMMONIUM SALTS AND OTHER SOURCES; 10% OF TOTAL AQUEOUS AMMONIA			

### 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

Not regulated.

(SDWA)

**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** 02-23-2021

Version # 01

NFPA ratings Health: 2

Flammability: 0 Instability: 0

NFPA ratings



**Disclaimer** Not available.

Material name: Perfection Mini Legacy 18-3-18 5264 Version #: 01 Issue date: 02-23-2021