# SAFETY DATA SHEET



### 1. Identification

**Product identifier** Perfection Cycle 34 34-3-7

Other means of identification None.

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

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

Label elements

Hazard symbol None. Signal word None.

The mixture does not meet the criteria for classification. **Hazard statement** 

**Precautionary statement** 

Observe good industrial hygiene practices. Prevention

Wash hands after handling. Response

Storage Store away from incompatible materials.

Dispose of waste and residues in accordance with local authority requirements. **Disposal** 

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	60 - < 70
Ammonium Sulfate		7783-20-2	10 - < 20
Potassium Chloride		7447-40-7	10 - < 20
Ammonium Phosphate		7722-76-1	5 - < 10

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

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

Rinse mouth. Get medical attention if symptoms occur. Ingestion

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.

Dusts may irritate the respiratory tract, skin and eyes.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting

Use water spray to cool unopened containers.

equipment/instructions 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. 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. Workplace Environmental Exposure Level (WEEL) Guides

Components	Гуре	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.

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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.

exceeding the exposure limits.

**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.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

(%)

Not available.

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Flammability limit - upper

(%)

Not available.

Explosive limit - lower (%) Not available.

Explosive limit - upper (%) Not available.

Vapor pressure Not available.

Vapor density Not available.

Relative density Not available.

Solubility(ies)

Solubility (water) Not available.

Auto-ignition temperature Not available.

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.

Incompatible materials Strong oxidizing agents.

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Irritating and/or toxic fumes and gases may be emitted upon the product's decomposition.

# 11. Toxicological information

Information on likely routes of exposure

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

Skin contact Dust or powder may irritate the skin.

Dust may irritate the eyes. Eye 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

Acute toxicity	Not known.			
Product	Species	Test Results		
Perfection Cycle 34 34-3-7	,			
<u>Acute</u>				
Dermal				
Solid				
LD50	Rabbit	> 2000 mg/kg, 24 hours		
Oral				
Solid				
LD50	Rat	> 10000 mg/kg		
Components	Species	Test Results		
Ammonium Phosphate (CA	AS 7722-76-1)			
<u>Acute</u>				
Dermal				
LD50	Rabbit	> 5000 mg/kg, 24 Hours		
	Rat	> 5000 mg/kg, 24 Hours		
Oral				
LD50	Rat	3260 mg/kg		
Ammonium Sulfate (CAS 7	7783-20-2)			
<u>Acute</u>				
Dermal				
LD50	Mouse	> 2000 mg/kg		
	Rat	> 2000 mg/kg		
Oral				
LD50	Mouse	> 2000 mg/kg		
	Rat	4250 mg/kg		
Potassium Chloride (CAS	7447-40-7)	0 0		
<u>Acute</u>	,			
Oral				
LD50	Rat	3020 mg/kg		
Urea (CAS 57-13-6)				
Acute				
Oral				
LD50	Mouse	13000 mg/kg		
	Rat	15000 mg/kg		
Other		- <del>-</del>		
LD50	Mouse	9200 mg/kg		
	Rat	8200 mg/kg		

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Skin corrosion/irritation

Serious eye damage/eye

Prolonged skin contact may cause temporary irritation. 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.

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** Not classifiable as to carcinogenicity to humans.

IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

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 -

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.

**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.

Product		Species	Test Results
Perfection Cycle 34 34-3-7			
Aquatic			
Crustacea	EC50	Daphnia	255.0392 mg/l, 48 hours estimated
Fish	LC50	Fish	2543.6372 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.

**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.

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#### **IMDG**

Not regulated as dangerous goods.

Transport in bulk according 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 U.S. EPA TSCA Inventory List.

**Toxic Substances Control Act (TSCA)** 

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

chemical

### SARA 313 (TRI reporting)

	Chemical name	CAS number	% by wt.	
Ī	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	Ą		
	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	Ą		
	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

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

02-23-2021 Issue date

Version # 01

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Health: 1 Flammability: 0 Instability: 0

**NFPA** ratings



Disclaimer

Not available.

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