SAFETY DATA SHEET



1. Identification

Product identifier Perfection Mini Super 90 31-3-3

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

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

Response Wash hands after handling.

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
Iron Oxysulfate		Not Available	5 - < 10
Monoammonium Phosphate		7722-76-1	5 - < 10
Potassium Sulfate		7778-80-5	5 - < 10
Other components below reportab	le levels		3 - < 5

Composition comments Occupational Exposure Limits for impurities, if present, 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.

Material name: Perfection Mini Super 90 31-3-3

5267 Version #: 02 Revision date: 03-01-2021 Issue date: 02-24-2021

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

IngestionRinse mouth. Get medical attention if symptoms occur.Most importantDusts may irritate the respiratory tract, skin and eyes.

symptoms/effects, acute and

delayed

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

protect themselves.

General information Ensure that medical personnel are aware of the material(s) involved, and take precautions to

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.

and precautions for firefighters

equipment/instructions

Use water spray to cool unopened containers.

Specific methodsUse 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. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Iron Oxysulfate	PEL	10 mg/m3	Fume.
US. OSHA Table Z-3 (29 CFR Components	1910.1000) Type	Value	Form
Iron Oxysulfate	TWA	5 mg/m3	Respirable fraction.
		15 mg/m3	Total dust.
		50 mppcf	Total dust.
		15 mppcf	Respirable fraction.

Material name: Perfection Mini Super 90 31-3-3
5267 Version #: 02 Revision date: 03-01-2021 Issue date: 02-24-2021

US. ACGIH Threshold Limit Values				
Components	Туре	Value	Form	
Iron Oxysulfate	TWA	5 mg/m3	Respirable fraction.	
US. NIOSH: Pocket Guide to C	hemical Hazards			
Components	Туре	Value	Form	
Iron Oxysulfate	TWA	5 mg/m3	Dust and fume.	
US. Workplace Environmental	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 Wear safety glasses with side shields (or goggles).

Skin protection

Wear appropriate chemical resistant gloves. Hand protection

Wear suitable protective clothing. Other

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

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

Granular Blend **Appearance**

Solid. **Physical state**

Solid Granules **Form**

Color Various colored granules

Odor None.

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

range

Not available. Flash point **Evaporation rate** Not available. 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. Vapor pressure Not available.

Vapor density Not available. Material name: Perfection Mini Super 90 31-3-3

Not available. Relative density

Solubility(ies)

80 % Solubility (water)

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

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.

Material is stable under normal conditions. **Chemical stability**

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

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

Skin contact Dust or powder may irritate the skin.

Eye contact Dust may irritate the eyes.

Ingestion Expected to be a low ingestion hazard.

Spacial

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

Information on toxicological effects

Acute toxicity

Product

Fiduuci	Species	rest results
Perfection Mini Super 90 3	1-3-3	
<u>Acute</u>		
Dermal		
Solid		
LD50	Rabbit	> 2000 mg/kg, 24 hours
Oral		
Solid		
LD50	Rat	> 10000 mg/kg
Components	Species	Test Results
American Culfata (CAC 7	7702.00.0\	

Tast Results

Ammoni

onents	Species	Test Results	
nium Sulfate (CAS 778	3-20-2)		
<u>Acute</u>			
Dermal			
LD50	Mouse	> 2000 mg/kg	
	Rat	> 2000 mg/kg	
Oral			
LD50	Mouse	> 2000 mg/kg	
	Rat	4250 mg/kg	

5267 Version #: 02 Revision date: 03-01-2021 Issue date: 02-24-2021

Components Species Test Results

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 Sulfate (CAS 7778-80-5)

Acute Dermal

LD50 Rat > 2000 mg/kg, 24 Hours

Oral

LD50 Rat > 2000 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 Serious eye damage/eye

Serious eye damage/eye irritation

Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

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

Germ cell mutagenicityNo 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

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 toxicityThis 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 Mini Super 90 31-3-3

Aquatic

Crustacea EC50 Daphnia 324.2037 mg/l, 48 hours estimated LC50 Fish 452.4872 mg/l, 96 hours estimated Fish

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

Bioaccumulative potential No data available. No data available. Mobility 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.

Dispose in accordance with all applicable regulations. Local disposal 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

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

the IBC Code

Not applicable.

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.

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 Nο

chemical

Material name: Perfection Mini Super 90 31-3-3

SARA 313 (TRI reporting)

CAS number	% by wt.	
IA 7722-76-1	5 - < 10	
ER .		
NIA		
IA 7783-20-2	10 - < 20	
ER .		
NIA		
)	IIA 7722-76-1 ER DNIA	IIA 7722-76-1 5 - < 10 ER ONIA IIA 7783-20-2 10 - < 20 ER

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 02-24-2021 **Revision date** 03-01-2021

Version # 02

NFPA ratings Health: 1

Flammability: 0

Instability: 0

NFPA ratings



Disclaimer Not available.

Material name: Perfection Mini Super 90 31-3-3

7/7 5267 Version #: 02 Revision date: 03-01-2021 Issue date: 02-24-2021