SAFETY DATA SHEET



1. Identification

Product identifier Perfection Six Iron 20-3-20

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

(800) 500-1698

product.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Wilbur-Ellis Company LLC Company name

Stanford Place III **Address**

> 4582 South Ulster Street Denver, CO 80237

United States

Branded Products Telephone

Information

SDS@wilburellis.com E-mail

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

Label elements

Hazard symbol None. None. Signal word

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

Precautionary statement

Prevention Observe good industrial hygiene practices.

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	30 - < 40
Ammonium Sulfate		7783-20-2	10 - < 20
Iron Sucrate		*	5 - < 10
Calcium Carbonate		471-34-1	1 - < 3
Other components below reportable levels			40 - < 50

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

> Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use water jet as an extinguisher, as this will spread the fire.

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

the chemical

media Specific hazards arising from

During fire, gases hazardous to health may be formed.

Special protective equipment

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

and precautions for firefighters 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. 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 Permissible Exposure Limits (PEL) for Air Contaminants (29 CFR 1910.1000)

Components	Туре	Value	Form
Iron Sucrate	PEL	10 mg/m3	Fume.
US. OSHA Table Z-3 Permissible Components	Exposure Limits (PEL) for Min Type	eral Dusts (29 CFR 1910.1000 Value) Form
Calcium Carbonate (CAS 471-34-1)	TWA	5 mg/m3	Respirable fraction.

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Components	Туре	Value	Form
		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.
US. ACGIH Threshold Limit Valu	es (TLV)		
Components	Туре	Value	Form
Iron Sucrate	TWA	5 mg/m3	Respirable fraction.
NIOSH. Immediately Dangerous	to Life or Health (IDLH) Values,	as amended	
Components	Type	Value	
Iron Sucrate	IDLH	2500 mg/m3	
US. NIOSH: Pocket Guide to Che	mical Hazards Recommended	Exposure Limits (REL)	
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. OARS. Workplace Environm	ental Exposure Level (WEEL) G	uide	
Components	Туре	Value	Form

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

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 Always observe good personal hygiene measures, such as washing after handling the material considerations and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

and before eating, uniform, and of showing. Treatment wash work detailing and protection

equipment to remove contaminants.

9. Physical and chemical properties

Appearance Granular Blend

Physical state Solid.

Form Solid Granules

Color Various colored granules

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Odor Odorless.

Odor threshold Not available.

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)

pH Not available.Melting point/freezing point Not available.Initial boiling point and boiling Not available.

range

Flash point

Evaporation rate

Flammability (solid, gas)

Not available.

Not available.

Upper/lower flammability or explosive limits

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.

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 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.

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.

Product Species Test Results

Perfection Six Iron 20-3-20

Acute
Dermal
Solid

LD50 Rabbit > 2000 mg/kg, 24 hours

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Product	Species	Test Results		
Oral				
Solid	5 /			
LD50	Rat	11100 mg/kg		
Components	Species	Test Results		
Ammonium Sulfate (CAS 7783-20)-2)			
<u>Acute</u> Dermal				
LD50	Mouse	> 2000 mg/kg		
2500	Rat	> 2000 mg/kg		
Oral	Nat	> 2000 mg/kg		
LD50	Mouse	> 2000 mg/kg		
2000	Rat	4250 mg/kg		
Calaium Carbanata (CAS 471 24		4230 Hg/kg		
Calcium Carbonate (CAS 471-34- Acute	· ' <i>)</i>			
<u>Acute</u> Dermal				
LD50	Rat	> 2000 mg/kg, 24 Hours		
Oral				
LD50	Rat	> 2000 mg/kg		
Iron Sucrate				
<u>Acute</u>				
Oral				
LD50	Rat	> 10000 mg/kg		
Urea (CAS 57-13-6)				
<u>Acute</u>				
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.	to course alsing completions		
Skin sensitization Germ cell mutagenicity	This product is not expected			
	mutagenic or genotoxic.	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.			
	Evaluation of Carcinogenicity			
Iron Sucrate (CAS *) OSHA Specifically Regulate	ed Substances (29 CFR 1910.1	3 Not classifiable as to carcinogenicity to humans. 1001-1053)		
	ogram (NTP) Report on Carcii	nogens		
Not listed.	This and double and compared to an			
Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.			

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Not classified.

Not classified.

Specific target organ toxicity - single exposure

Specific target organ toxicity -

repeated exposure

Aspiration hazard Not an aspiration hazard.

Chronic effects Prolonged inhalation may be harmful.

Further informationThis 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 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 instructionsCollect 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 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

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

U.S. EPA TSCA Inventory List.

"active".

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

Ammonium Sulfate (CAS 7783-20-2) 1.0 % One-Time Export Notification only.

Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt

E)

Ammonium Sulfate (CAS 7783-20-2) 721.11253

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 No

chemical

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SARA 313 (TRI reporting)

Not regulated.

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

01-29-2021 Issue date **Revision date** 12-08-2024

Version # 02

Health: 1 **NFPA** ratings

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.

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