# **SAFETY DATA SHEET**



## 1. Identification

Product identifier Perfection Spring Plus 12-2-8

Other means of identification None.

Recommended use Ag 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

Telephone Branded Products

Information

E-mail SDS@wilburellis.com

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

Chemtrec - International +1 703-741-5970

(800) 500-1698

# 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	%
Iron Sulfate		7782-63-0	40 - < 50
Ammonium Sulfate		7783-20-2	30 - < 40
Potassium Chloride		7447-40-7	10 - < 20
Urea		57-13-6	10 - < 20
Ammonium Phosphate		7722-76-1	3 - < 5
Other components below reporta	able levels		1 - < 3

**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 Spring Plus 12-2-8 5241 Version #: 01 Issue date: 01-29-2021

Eve contact 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

Nausea, vomiting. Abdominal pain. Diarrhea.

Indication of immediate medical attention and special

treatment needed

Treat symptomatically.

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

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

protect themselves.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing

General information

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

Special protective equipment

During fire, gases hazardous to health may be formed.

and precautions for firefighters

Use water spray to cool unopened containers.

Fire fighting equipment/instructions

Use standard firefighting procedures and consider the hazards of other involved materials. Specific methods

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. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

Stop the flow of material, if this is without risk. Following product recovery, flush area with water.

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

Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store in tightly closed container. Store away from incompatible materials (see Section 10 of the

# 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. ACGIH Threshold Limit Values

Components	Туре	Value
Iron Sulfate (CAS 7782-63-0)	TWA	1 mg/m3

#### US. NIOSH: Pocket Guide to Chemical Hazards

Components	Туре	Value	
Iron Sulfate (CAS	TWA	1 mg/m3	
7782-63-0)			

# US. Workplace Environmental Exposure Level (WEEL) Guides

Components	Type	Value	Form	
Urea (CAS 57-13-6)	TWA	10 mg/m3	Total particulate.	

#### No biological exposure limits noted for the ingredient(s). **Biological limit values**

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.

Material name: Perfection Spring Plus 12-2-8 5241 Version #: 01 Issue date: 01-29-2021 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** In case of insufficient ventilation, wear suitable respiratory equipment.

**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.

(%)

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.

Partition coefficient Not available.

(n-octanol/water)

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.

**Hazardous decomposition** 

products

No hazardous decomposition products are known.

# 11. Toxicological information

Information on likely routes of exposure

**Inhalation** Prolonged inhalation may be harmful.

Skin contact

No adverse effects due to skin contact are expected.

Eye contact

Direct contact with eyes may cause temporary irritation.

**Ingestion** Expected to be a low ingestion hazard.

Symptoms related to the

Nausea, vomiting. Abdominal pain. Diarrhea.

physical, chemical and toxicological characteristics

Information on toxicological effects

Acute toxicity Not known.

Product Species Test Results

Perfection Spring Plus 12-2-8

Acute Dermal

Solid

LD50 Rabbit > 2000 mg/kg, 24 hours

Oral

Solid

LD50 Rat 6000 mg/kg
Components Species Test Results

Ammonium Phosphate (CAS 7722-76-1)

Acute Dermal

LD50 Rabbit > 5000 mg/kg, 24 Hours

Rat > 5000 mg/kg, 24 Hours

Oral

LD50 Rat 3260 mg/kg

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 Sulfate (CAS 7782-63-0)

**Acute** 

Dermal

LD50 Rat > 2000 mg/kg, 24 Hours

Oral

LD50 Rat > 2000 mg/kg

Potassium Chloride (CAS 7447-40-7)

<u>Acute</u>

Oral

LD50 Rat 3020 mg/kg

Material name: Perfection Spring Plus 12-2-8 5241 Version #: 01 Issue date: 01-29-2021

SDS US

Components Species Test Results

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

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 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 Spring Plus 12-2-8

Aquatic

Crustacea EC50 Daphnia 64.9845 mg/l, 48 hours estimated Fish LC50 Fish 32.9841 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

UN number UN3077

**UN proper shipping name** Environmentally hazardous substances, solid, n.o.s. (Iron Sulfate RQ = 2500 LBS)

Transport hazard class(es)

Class 9
Subsidiary risk Label(s) 9
Packing group III

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Not regulated when transported by road in a non-bulk package, in less than reportable quantity

(2500 pounds/1134 kg). See RQ in DOT Proper Shipping Name.

**Special provisions** 8, 146, 335, A112, B54, IB8, IP3, N20, T1, TP33

Packaging exceptions155Packaging non bulk213Packaging bulk240

Not DOT regulated in domestic (USA ground) transportation in package sizes less than 2500 pounds. The DOT transportation information above is for shipments with package sizes equal to or exceeding this value.

DOT Shipping Notes: 40 CFR 172.504(f)(9) For Class 9, a CLASS 9 placard is not required for domestic (USA ground) transportation, however shipments with packaging sizes exceeding the Reportable Quantity (RQ) or bulk packaging must be marked with the appropriate identification number on a CLASS 9 placard, an orange panel, or a white square-on-point display configuration as required. Since the Class 9 placard is not required (although it may be used) the hazardous material endorsement is also not required on a Commercial Drivers License

#### **IATA**

Not regulated as dangerous goods.

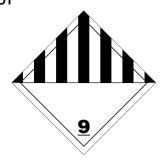
#### **IMDG**

Not regulated as dangerous goods.

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

Not applicable.

DOT



# 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)** 

Iron Sulfate (CAS 7782-63-0) Listed.

Material name: Perfection Spring Plus 12-2-8 5241 Version #: 01 Issue date: 01-29-2021

**Toxic Substances Control Act (TSCA)** 

## 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

No

chemical

#### SARA 313 (TRI reporting)

Chemical name	CAS number	% by wt.	
AMMONIA (INCLUDES ANHYDROUS AMMONIA	7722-76-1	3 - < 5	_
AND AQUEOUS AMMONIA FROM WATER			
DISSOCIABLE AMMONIUM SALTS AND OTHER			
SOURCES; 10% OF TOTAL AQUEOUS AMMONI.	A		
IS REPORTABLE UNDER THIS LISTING)			
AMMONIA (INCLUDES ANHYDROUS AMMONIA	7783-20-2	30 - < 40	
AND AQUEOUS AMMONIA FROM WATER			
DISSOCIABLE AMMONIUM SALTS AND OTHER			
SOURCES; 10% OF TOTAL AQUEOUS AMMONI.	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

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** 01-29-2021

Version # 01

NFPA ratings Health: 1

Flammability: 0

Instability: 0

**NFPA** ratings



**Disclaimer** Not available.

Material name: Perfection Spring Plus 12-2-8 5241 Version #: 01 Issue date: 01-29-2021