

# Super K 12-2-12 with Curve

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations  
Issue date: 1/28/2025 Revision date: 3/25/2025 Supersedes: 1/28/2025 Version: 2.0

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Mixture  
Product name : Super K 12-2-12 with Curve  
Product code : M52012

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

No additional information available

#### 1.4. Supplier's details

Simplot AB Retail, Inc., DBA Simplot Turf and Horticulture  
P.O. Box 9296  
Boise, ID, 83707

#### 1.5. Emergency phone number

Emergency number : CHEMTREC 1-800-424-9300

### SECTION 2 Hazard Identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Serious eye damage/eye irritation, Category 2 H319 Causes serious eye irritation.  
Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning  
Hazard statements (GHS US) : H319 - Causes serious eye irritation  
Precautionary statements (GHS US) : P264 - Wash hands, forearms and face thoroughly after handling.  
P280 - Wear protective gloves, protective clothing, eye protection, face protection, and hearing protection.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P337+P313 - If eye irritation persists: Get medical advice or attention.

#### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

#### 2.4. Hazards not otherwise classified

No additional information available

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### 2.5. Unknown acute toxicity

No additional information available

## SECTION 3 Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Product identifier	%	GHS US classification
urea (57-13-6)	CAS-No.: 57-13-6	20-30	Eye Irrit. 2B, H320
tetrasodium pyrophosphate	CAS-No.: 7722-88-5	4.88	Acute Tox. 4 (Oral), H302
tetrasodium ethylenediaminetetracetate	CAS-No.: 64-02-8	1.82	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318

Full text of hazard classes and H-statements : see section 16

## SECTION 4 First aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Wash skin with plenty of water.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.

### 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects after inhalation	: None under normal conditions. Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
Symptoms/effects after skin contact	: None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.
Symptoms/effects after eye contact	: Eye irritation.
Symptoms/effects after ingestion	: None under normal conditions.

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment	: Treat symptomatically.
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## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: Water spray. Dry powder. Foam.
Unsuitable extinguishing media	: Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: No fire hazard.
Explosion hazard	: No direct explosion hazard.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

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### 5.3. Special protective equipment and precautions for fire-fighters

- |                                |   |   |
|--------------------------------|---|---|
| Firefighting instructions      | : | Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : | Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.              |

## SECTION 6 Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- |                  |   |   |
|------------------|---|---|
| General measures | : | Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage. |
|------------------|---|---|

#### For non-emergency personnel

- |                      |   |  |
|----------------------|---|--|
| Protective equipment | : | Wear recommended personal protective equipment.            |
| Emergency procedures | : | Ventilate spillage area. Avoid contact with skin and eyes. |

#### For emergency responders

- |                           |   |   |
|---------------------------|---|---|
| Protective equipment      | : | Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures      | : | Evacuate unnecessary personnel.   |
| Environmental precautions | : | Avoid release to the environment.   |

### 6.2. Methods and materials for containment and cleaning up

- |                         |   |   |
|-------------------------|---|---|
| For containment         | : | Using a clean shovel, put the material in a dry container and cover without compressing it. |
| Methods for cleaning up | : | Mechanically recover the product.   |
| Other information       | : | Dispose of materials or solid residues at an authorized site.                               |

For further information refer to section 13

## SECTION 7 Handling and storage

### 7.1. Precautions for safe handling

- |                                   |   |  |
|-----------------------------------|---|--|
| Precautions for safe handling     | : | Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. |
| Hygiene measures                  | : | Do not eat, drink or smoke when using this product. Always wash hands after handling the product.                  |
| Additional hazards when processed | : | Not expected to present a significant hazard under anticipated conditions of normal use.                           |

### 7.2. Conditions for safe storage, including incompatibilities

- |                     |   |   |
|---------------------|---|---|
| Technical measures  | : | Keep in a cool, well-ventilated place away from heat.                     |
| Storage conditions  | : | Keep cool. Protect from sunlight.   |
| Packaging materials | : | Store always product in container of same material as original container. |

## SECTION 8 Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

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### 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

### 8.3. Individual protection measures, such as personal protective equipment

#### Personal protective equipment:

Wear recommended personal protective equipment.

<b>Hand protection:</b>
Protective gloves
<b>Eye protection:</b>
Safety glasses
<b>Skin and body protection:</b>
Wear suitable protective clothing
<b>Respiratory protection:</b>
In case of insufficient ventilation, wear suitable respiratory equipment

#### Personal protective equipment symbol(s):



## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

Physical state	: Solid
Color	: Mixture contains one or more component(s) which have the following color(s): Colourless Colorless White Blue-green On exposure to air: yellow-brown Colourless to white Light brown
Odor	: There may be no odor warning properties, odor is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odor: Mild odour Unpleasant odour Odourless In moist air: Ammonia odour
Odor threshold	: No data available
pH	: No data available
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: No data available
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Explosion limits	: Not applicable
Particle characteristics	: No data available

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### urea (57-13-6)

Particle characteristics

No data available

### tetrasodium pyrophosphate

Particle characteristics

No data available

### tetrasodium ethylenediaminetetracetate

Particle characteristics

No data available

## 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## SECTION 10 Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11 Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified  
Acute toxicity (dermal) : Not classified  
Acute toxicity (inhalation) : Not classified

### urea (57-13-6) (57-13-6)

LD50 oral rat	8471 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; 14300 mg/kg bodyweight; Rat; Experimental value)
LD50 dermal rat	> 3200 mg/kg (Rat; Literature study)
LD50 dermal rabbit	> 21000 mg/kg (Rabbit; Literature study)
ATE US (oral)	8471 mg/kg body weight

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tetrasodium pyrophosphate (7722-88-5)	
LD50 oral rat	300 – 2000 mg/kg body weight (OECD 420: Acute Oral toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))
LD50 dermal rabbit	> 2000 mg/kg body weight (24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))
LC50 Inhalation - Rat	> 0.58 mg/l (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, (maximum achievable concentration), Inhalation (dust), 14 day(s))
ATE US (oral)	300 mg/kg body weight

tetrasodium ethylenediaminetetracetate (64-02-8)	
LD50 oral rat	1780 – 2000 mg/kg (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
ATE US (oral)	1780 mg/kg body weight

Skin corrosion/irritation : Not classified

urea (57-13-6) (57-13-6)	
pH	7.2 (10 %)

tetrasodium pyrophosphate (7722-88-5)	
pH	9.9 (5.85 g/100 ml, 20 °C)

tetrasodium ethylenediaminetetracetate (64-02-8)	
pH	11 (1 %)

Serious eye damage/irritation : Causes serious eye irritation.

urea (57-13-6) (57-13-6)	
pH	7.2 (10 %)

tetrasodium pyrophosphate (7722-88-5)	
pH	9.9 (5.85 g/100 ml, 20 °C)

tetrasodium ethylenediaminetetracetate (64-02-8)	
pH	11 (1 %)

Respiratory or skin sensitization : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified

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Viscosity, kinematic	Not applicable
urea (57-13-6) (57-13-6)	
Viscosity, kinematic	Not applicable (solid)
tetrasodium pyrophosphate (7722-88-5)	
Viscosity, kinematic	Not applicable (solid)

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<b>urea (57-13-6) (57-13-6)</b>	
<b>tetrasodium ethylenediaminetetracetate (64-02-8)</b>	
Viscosity, kinematic	Not applicable (solid)
Symptoms/effects after inhalation	: None under normal conditions. Dust of the product, if present, may cause respiratory irritation after an excessive inhalation exposure.
Symptoms/effects after skin contact	: None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.
Symptoms/effects after eye contact	: Eye irritation.
Symptoms/effects after ingestion	: None under normal conditions.

## SECTION 12 Ecological information

### 12.1. Ecotoxicity

Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

<b>urea (57-13-6) (57-13-6)</b>	
LC50 - Fish [1]	> 6810 mg/l (96 h; <i>Leuciscus idus</i> ; Nominal concentration)
EC50 - Crustacea [1]	> 10000 mg/l (48 h; <i>Daphnia magna</i> ; Nominal concentration)
LC50 - Fish [2]	17500 mg/l (96 h; <i>Poecilia reticulata</i> )
EC50 - Crustacea [2]	> 10000 mg/l (24 h; <i>Daphnia magna</i> )
EC50 72h - Algae [1]	24541.9 mg/l Test organisms (species): <i>Raphidocelis subcapitata</i> (previous names: <i>Pseudokirchneriella subcapitata</i> , <i>Selenastrum capricornutum</i> )
EC50 96h - Algae [1]	42184 mg/l Source: Ecological Structure Activity Relationships
TLM - Fish [1]	17500 ppm (96 h; <i>Poecilia reticulata</i> )
Threshold limit - Other aquatic organisms [1]	120000 mg/l (16 h; Bacteria; Toxicity test)
Threshold limit - Other aquatic organisms [2]	> 10000 mg/l ( <i>Pseudomonas putida</i> )
Threshold limit - Algae [1]	> 10000 mg/l (168 h; <i>Scenedesmus quadricauda</i> ; Growth rate)
Threshold limit - Algae [2]	47 mg/l (192 h; <i>Microcystis aeruginosa</i> ; Growth rate)
<b>tetrasodium pyrophosphate (7722-88-5)</b>	
LC50 - Fish [1]	> 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, <i>Oncorhynchus mykiss</i> , Semi-static system, Fresh water, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	> 100 mg/l (EPA OTS 797.1300, 48 h, <i>Daphnia magna</i> , Static system, Fresh water, Experimental value, Locomotor effect)
ErC50 algae	> 100 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, <i>Desmodesmus subspicatus</i> , Static system, Fresh water, Experimental value, Nominal concentration)
<b>tetrasodium ethylenediaminetetracetate (64-02-8)</b>	
LC50 - Fish [1]	121 mg/l (US EPA, 96 h, <i>Lepomis macrochirus</i> , Static system, Fresh water, Experimental value, Soft water)
EC50 - Crustacea [1]	625 mg/l (DIN 38412-11, 24 h, <i>Daphnia magna</i> , Static system, Fresh water, Experimental value, Locomotor effect)

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### tetrasodium ethylenediaminetetracetate (64-02-8)

ErC50 algae	> 100 mg/l (EU Method C.3, 72 h, <i>Desmodesmus subspicatus</i> , Static system, Fresh water, Weight of evidence, Nominal concentration)
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### 12.2. Persistence and degradability

#### Super K 12-2-12 with Curve

Persistence and degradability	Rapidly degradable
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#### urea (57-13-6) (57-13-6)

Persistence and degradability	Inherently biodegradable, Hydrolysis in water, Not established.
ThOD	0.27 g O <sub>2</sub> /g substance

#### tetrasodium pyrophosphate (7722-88-5)

Persistence and degradability	Biodegradability: not applicable.
Chemical oxygen demand (COD)	Not applicable (inorganic)
ThOD	Not applicable (inorganic)

#### tetrasodium ethylenediaminetetracetate (64-02-8)

Persistence and degradability	Not readily biodegradable in water.
Biochemical oxygen demand (BOD)	< 0.002 g O <sub>2</sub> /g substance
Chemical oxygen demand (COD)	0.54 – 0.58 g O <sub>2</sub> /g substance

### 12.3. Bioaccumulative potential

#### urea (57-13-6) (57-13-6)

BCF - Fish [1]	1 (72 h; <i>Brachydanio rerio</i> ; Fresh water)
BCF - Other aquatic organisms [1]	11700 ( <i>Chlorella</i> sp.)
Partition coefficient n-octanol/water (Log Pow)	< -1.73 (Experimental value; EU Method A.8: Partition Coefficient)
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.

#### tetrasodium pyrophosphate (7722-88-5)

Bioaccumulative potential	Not bioaccumulative.
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#### tetrasodium ethylenediaminetetracetate (64-02-8)

BCF - Fish [1]	1.1 – 1.8 (28 day(s), <i>Lepomis macrochirus</i> , Flow-through system, Fresh water, Experimental value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	-13.17 (QSAR, KOWWIN, 25 °C)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).

### 12.4. Mobility in soil

#### urea (57-13-6) (57-13-6)

Surface tension	No data available in the literature
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	-1.43 – -1.19 (log Koc, Calculated value)
Ecology - soil	Highly mobile in soil.



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tetrasodium pyrophosphate (7722-88-5)	
Surface tension	No data available (test not performed)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.17 (log Koc, Experimental value)
Ecology - soil	Low potential for adsorption in soil.
tetrasodium ethylenediaminetetracetate (64-02-8)	
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2.495 (log Koc, SRC PCKOCWIN v2.0, Calculated value)
Ecology - soil	Low potential for adsorption in soil.

### 12.5. Other adverse effects

Ozone : Not classified  
Fluorinated greenhouse gases : No

## SECTION 13 Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.  
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Sewage disposal recommendations : Disposal must be done according to official regulations.  
Product/Packaging disposal recommendations : Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.  
Additional information : Do not re-use empty containers.

## SECTION 14 Transport information

### 14.1. UN number

UN-No. (DOT) : Not applicable  
UN-No. (TDG) : Not applicable  
UN-No. (IMDG) : Not applicable  
UN-No. (IATA) : Not applicable

### 14.2. UN Proper Shipping Name

Proper Shipping Name (DOT) : Not applicable  
Proper Shipping Name (TDG) : Not applicable  
Proper Shipping Name (IMDG) : Not applicable  
Proper Shipping Name (IATA) : Not applicable

### 14.3. Transport hazard class(es)

**DOT**  
Transport hazard class(es) (DOT) : Not applicable

**TDG**  
Transport hazard class(es) (TDG) : Not applicable

**IMDG**  
Transport hazard class(es) (IMDG) : Not applicable

**IATA**  
Transport hazard class(es) (IATA) : Not applicable

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### 14.4. Packing group

Packing group (DOT) : Not applicable  
Packing group (TDG) : Not applicable  
Packing group (IMDG) : Not applicable  
Packing group (IATA) : Not applicable

### 14.5. Environmental hazards

Other information : No supplementary information available.

### 14.6. Transport in bulk

Not applicable

### 14.7. Special precautions for user

**DOT**  
Not applicable

**TDG**  
Not applicable

**IMDG**  
Not applicable

**IATA**  
Not applicable

## SECTION 15 Regulatory information

### 15.1. Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory, except for:

tetrasodium pyrophosphate	CAS-No. 7722-88-5	4.88%
tetrasodium ethylenediaminetetracetate	CAS-No. 64-02-8	1.82%

### 15.2. International regulations

#### CANADA

#### urea (57-13-6) (57-13-6)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available

#### National regulations

#### urea (57-13-6) (57-13-6)

Listed on INSQ (Mexican National Inventory of Chemical Substances)

### 15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

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### SECTION 16 Other information

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Issue date : 1/28/2025

Full text of hazard classes and H-statements	
H302	Harmful if swallowed
H318	Causes serious eye damage
H319	Causes serious eye irritation
H320	Causes eye irritation

Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.