

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 11/18/2021 Supersedes: 11/18/2021 Version: 1.0

#### **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture

Product name : Best Short-Kut 24 24-4-9 with X-cote

Product code : M74367

#### 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Fertilizer

#### 1.3. Supplier

JR Simplot Company P.O. Box 70013 Boise, ID 83707

T 1-208-336-2110

#### 1.4. Emergency telephone number

Emergency number : CHEMTREC 1-800-424-9300

### **SECTION 2: Hazard(s) identification**

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

#### **GHS-US** classification

Skin corrosion/irritation, Category 2

Serious eye damage/eye irritation, Category 2B

Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation

H315 Causes skin irritation.

H320 Causes eye irritation

H335 May cause respiratory irritation.

Full text of H statements : see section 16

#### 2.2. GHS Label elements, including precautionary statements

#### **GHS US labelling**

Hazard pictograms (GHS US)



Signal word (GHS US) : Warning

Hazard statements (GHS US) : H315 - Causes skin irritation.

H320 - Causes eye irritation

H335 - May cause respiratory irritation.

Precautionary statements (GHS US) : P261 - Avoid breathing dust/fume/gas/mist/vapours/spray.

P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P280 - Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352 - If on skin: Wash with plenty of water/...

P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P312 - Call a poison center/doctor/... if you feel unwell

P321 - Specific treatment (see supplemental first aid instruction on this label)

P332+P313 - If skin irritation occurs: Get medical attention P337+P313 - If eye irritation persists: Get medical attention

P362 - Take off contaminated clothing.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container to ... in accordance with

local/regional/national/international regulations

#### 2.3. Other hazards which do not result in classification

No additional information available

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#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

#### **SECTION 3: Composition/information on ingredients**

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

Name	Product identifier	%	GHS-US classification
urea	(CAS-No.) 57-13-6		Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335
ammonium sulfate	(CAS-No.) 7783-20-2		Eye Irrit. 2B, H320 STOT SE 3, H335
potassium sulfate	(CAS-No.) 7778-80-5		Not classified
Polymer Coating			Not classified
Monoammonium Phosphate	(CAS-No.) 7722-76-1		Eye Irrit. 2B, H320 STOT SE 3, H335
Iron Oxysulfate			Eye Irrit. 2B, H320
sulfur	(CAS-No.) 7704-34-9		Skin Irrit. 2, H315 Eye Irrit. 2B, H320
Manganese Oxysulfate			Eye Irrit. 2B, H320
Wax	(CAS-No.) 64771-72-8		Not classified
Sand			STOT SE 3, H335

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

#### **SECTION 4: First-aid measures**

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

First-aid measures after skin contact : Wash with plenty of water/.... Wash contaminated clothing before reuse. If skin irritation occurs:

Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this

label).

First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present

and easy to do. Continue rinsing.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

### 4.2. Most important symptoms and effects (acute and delayed)

Potential adverse human health effects and : Based on available data, the classification criteria are not met.

symptoms

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes eye irritation.

## 4.3. Immediate medical attention and special treatment, if necessary

No additional information available

### **SECTION 5: Fire-fighting measures**

## 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Specific hazards arising from the chemical

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

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Prevent fire fighting water from entering the environment.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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#### **SECTION 6: Accidental release measures**

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

#### 6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

#### 6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimise generation of dust. Store away

from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

### **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or

smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-

ventilated area.

Hygiene measures : Wash hands, forearms and face thoroughly after handling.

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

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container

tightly closed.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

No additional information available

Best Short-Kut 24 24-4-9 with X-cote		
No additional information available		
urea (57-13-6)		
No additional information available		
ammonium sulfate (7783-20-2)		
No additional information available		
Monoammonium Phosphate (7722-76-1)		
No additional information available		
potassium sulfate (7778-80-5)		
No additional information available		
Iron Oxysulfate		
No additional information available		
Manganese Oxysulfate		
No additional information available		
sulfur (7704-34-9)		
USA - ACGIH - Occupational Exposure Limits		
ACGIH TWA (mg/m³)	3 mg/m³	
Sand		
No additional information available		
Polymer Coating		

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#### Wax (64771-72-8)

No additional information available

#### 8.2. **Appropriate engineering controls**

#### Individual protection measures/Personal protective equipment

#### Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask

Other information:

Physical state

Do not eat, drink or smoke during use.

#### **SECTION 9: Physical and chemical properties**

## Information on basic physical and chemical properties

Appearance : Granules. Colour Blue-green Grey Odour : characteristic Odour threshold : No data available No data available рΗ Melting point : No data available Freezing point : No data available : No data available Boiling point Flash point : No data available Relative evaporation rate (butylacetate=1) No data available Flammability (solid, gas) : Non flammable. : No data available Vapour pressure

: No data available Solubility Soluble and slowly soluble. Polymer coating and sulfur insoluble.

: No data available

: Solid

Partition coefficient n-octanol/water (Log Pow) : No data available : No data available Auto-ignition temperature : No data available Decomposition temperature Viscosity, kinematic : No data available Viscosity, dynamic No data available : No data available Explosive limits : No data available Explosive properties Oxidising properties : No data available

### Other information

No additional information available

Relative vapour density at 20 °C

Relative density

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### **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Not established.

## 10.3. Possibility of hazardous reactions

Not established.

#### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

#### 10.5. Incompatible materials

Strong acids. Strong bases.

Carcinogenicity

#### 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

## **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

Oral Toxicity; Literature study; 14300 mg/kg bodyweight;
dy)

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes eye irritation.

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : May cause respiratory irritation.

: Not classified

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urea (57-13-6)	
STOT-single exposure	May cause respiratory irritation.
ammonium sulfate (7783-20-2)	
STOT-single exposure	May cause respiratory irritation.
Monoammonium Phosphate (7722-76-1)	
STOT-single exposure	May cause respiratory irritation.

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure : Not classified

Aspiration hazard : Not classified
Viscosity, kinematic : No data available

Potential adverse human health effects and : Based on available data, the classification criteria are not met.

symptoms

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation. Symptoms/effects after eye contact : Causes eye irritation.

## **SECTION 12: Ecological information**

#### 12.1. Toxicity

**sulfur (7704-34-9)** LC50 fish 1

urea (57-13-6)	
LC50 fish 1	> 6810 mg/l (96 h; Leuciscus idus; Nominal concentration)
EC50 Daphnia 1	> 10000 mg/l (48 h; Daphnia magna; Nominal concentration)
LC50 fish 2	17500 mg/l (96 h; Poecilia reticulata)
EC50 Daphnia 2	> 10000 mg/l (24 h; Daphnia magna)
TLM fish 1	17500 ppm (96 h; Poecilia reticulata)
Threshold limit other aquatic organisms 1	120000 mg/l (16 h; Bacteria; Toxicity test)
Threshold limit other aquatic organisms 2	> 10000 mg/l (Pseudomonas putida)
Threshold limit algae 1	> 10000 mg/l (168 h; Scenedesmus quadricauda; Growth rate)
Threshold limit algae 2	47 mg/l (192 h; Microcystis aeruginosa; Growth rate)
ammonium sulfate (7783-20-2)	
LC50 fish 1	126 mg/l (96 h; Poecilia reticulata)
EC50 Daphnia 1	202 mg/l (96 h; Daphnia magna)
LC50 fish 2	250 – 480 mg/l (96 h; Brachydanio rerio)
EC50 Daphnia 2	433 mg/l (50 h; Daphnia magna)
TLM fish 1	1290 ppm (96 h; Gambusia affinis)
Monoammonium Phosphate (7722-76-1)	
LC50 fish 1	155 ppm (96 h; Pimephales promelas)
potassium sulfate (7778-80-5)	
LC50 fish 1	1692.4 mg/l (96 h; Alburnus alburnus)
LC50 other aquatic organisms 1	> 1000 mg/l (96 h)
EC50 Daphnia 1	890 mg/l (48 h; Daphnia magna; Static system)
LC50 fish 2	653 – 796 mg/l (96 h; Lepomis macrochirus)
EC50 Daphnia 2	1180 mg/l (96 h; Crustacea)
TLM fish 1	3550 ppm (96 h; Lepomis sp.)
Threshold limit other aquatic organisms 1	> 1000 mg/l (96 h)
Threshold limit algae 1	2900 mg/l (72 h; Scenedesmus subspicatus)

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866 mg/l (96 h; Brachydanio rerio)

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sulfur (7704-34-9)	
LC50 fish 2	> 100 mg/l 96 h; Salmo gairdneri (Oncorhynchus mykiss)
TLM fish 1	10000 ppm (96 h; Gambusia affinis)
Threshold limit other aquatic organisms 1	> 10000 mg/l (24 h; Daphnia magna)

### 12.2. Persistence and degradability

2.2. Persistence and degradability	
Best Short-Kut 24 24-4-9 with X-cote	
Persistence and degradability	Not established.
urea (57-13-6)	
Persistence and degradability	Inherently biodegradable. Hydrolysis in water. Not established.
ThOD	0.27 g O₂/g substance
ammonium sulfate (7783-20-2)	
Persistence and degradability	Biodegradability in water: no data available. Not established.
Monoammonium Phosphate (7722-76-1)	
Persistence and degradability	Biodegradability in water: no data available. Not established.
potassium sulfate (7778-80-5)	
Persistence and degradability	Biodegradability: not applicable. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
Iron Oxysulfate	
Persistence and degradability	Not established.
sulfur (7704-34-9)	
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. Adsorbs into the soil. Not established.
Biochemical oxygen demand (BOD)	Not applicable
Chemical oxygen demand (COD)	Not applicable
ThOD	Not applicable
BOD (% of ThOD)	Not applicable
Sand	
Persistence and degradability	Not established.
Wax (64771-72-8)	
Persistence and degradability	Not established.

#### 12.3. Bioaccumulative potential

Best Short-Kut 24 24-4-9 with X-cote		
Bioaccumulative potential	Not established.	
urea (57-13-6)		
BCF fish 1	1 (72 h; Brachydanio rerio; Fresh water)	
BCF other aquatic organisms 1	11700 (Chlorella 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.	
ammonium sulfate (7783-20-2)		
Partition coefficient n-octanol/water (Log Pow)	-5.1	
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.	
Monoammonium Phosphate (7722-76-1)		
Bioaccumulative potential	Not bioaccumulative. Not established.	
potassium sulfate (7778-80-5)		
Bioaccumulative potential	Not bioaccumulative. Not established.	

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Iron Oxysulfate		
Bioaccumulative potential	Not established.	
sulfur (7704-34-9)		
Partition coefficient n-octanol/water (Log Pow)	0.23 (Estimated value)	
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4). Not established.	
Sand		
Bioaccumulative potential	Not established.	
Wax (64771-72-8)		
Bioaccumulative potential	Not established.	

### 12.4. Mobility in soil

sulfur (7704-34-9)	
Ecology - soil	Not toxic to bees.

#### 12.5. Other adverse effects

Other information : Avoid unintentional release to the environment.

### **SECTION 13: Disposal considerations**

#### 13.1. Disposal methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Ecology - waste materials : Avoid unintentional release to the environment.

## **SECTION 14: Transport information**

### **Department of Transportation (DOT)**

In accordance with DOT

Other information : No supplementary information available.

**Transportation of Dangerous Goods** 

Transport by sea

Air transport

## **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

#### Best Short-Kut 24 24-4-9 with X-cote

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

Iron Oxysulfate	CAS-No.	%
Manganese Oxysulfate	CAS-No.	%
Sand	CAS-No.	%
Polymer Coating	CAS-No.	%

#### 15.2. International regulations

### CANADA

ure	ea (57-13-6)
Lis	ted on the Canadian DSL (Domestic Substances List)

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#### ammonium sulfate (7783-20-2)

Listed on the Canadian DSL (Domestic Substances List)

#### Monoammonium Phosphate (7722-76-1)

Listed on the Canadian DSL (Domestic Substances List)

#### potassium sulfate (7778-80-5)

Listed on the Canadian DSL (Domestic Substances List)

#### sulfur (7704-34-9)

Listed on the Canadian DSL (Domestic Substances List)

#### Sand

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### **Polymer Coating**

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

#### Wax (64771-72-8)

Listed on the Canadian DSL (Domestic Substances List)

#### **EU-Regulations**

No additional information available

**National regulations** 

No additional information available

#### 15.3. US State regulations

Component	State or local regulations
ammonium sulfate(7783-20-2)	U.S Massachusetts - Right To Know List; U.S Pennsylvania - RTK (Right to Know) List
sulfur(7704-34-9)	U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List

### **SECTION 16: Other information**

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Other information : None.

#### Full text of H-statements:

H315	Causes skin irritation.
H320	Causes eye irritation
H335	May cause respiratory irritation.

#### SDS US (GHS HazCom 2012)

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