# Safety Data Sheet

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# SECTION 1: Identification of the substance/mixture and of the company/undertaking

## 1.1. Product identifier

Product form : Mixture

Product name : Best Nitra King 21-2-4-2.0 Fe

Product code : M827857

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.3. Details of the supplier of the safety data sheet

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: Hazards identification**

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

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

Eye Irrit. 2B H320 STOT SE 3 H335

Full text of H-phrases: see section 16

## 2.2. Label elements

#### **GHS-US** labelling

Hazard pictograms (GHS-US)



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Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H320 - Causes eye irritation

H335 - May cause respiratory irritation

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

P264 - Wash ... thoroughly after handling

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

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

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

P405 - Store locked up

P501 - Dispose of contents/container to ...

#### 2.3. Other hazards

No additional information available

# 2.4. Unknown acute toxicity (GHS-US)

Not applicable

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

# 3.1. Substance

Not applicable

#### 3.2. Mixture

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Name	Product identifier	%	GHS-US classification
ASN-26 26-0-0			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
Monoammonium Phosphate	(CAS No) 7722-76-1		Eye Irrit. 2B, H320 STOT SE 3, H335
Iron Oxysulfate			Eye Irrit. 2B, H320
wax (paraffins- petroleum)	(CAS No) 64771-72-8		Not classified

Full text of H-phrases: 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 victim to fresh air and keep at rest in a position comfortable for breathing. Call a

POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

by warm water rinse.

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, both acute and delayed

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after eye contact : Causes eye irritation.

#### 4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

# **SECTION 5: Firefighting measures**

#### 5.1. 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. Special hazards arising from the substance or mixture

No additional information available

## 5.3. Advice for firefighters

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

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

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

#### **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. Minimize generation of dust. Store away

from other materials.

#### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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# 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.

#### 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.

#### 7.3. Specific end use(s)

No additional information available

# SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

Best Nitra King 21-2-4-2.0 Fe		
ACGIH	Not applicable	
OSHA	Not applicable	
Monoammonium Phosphat	e (7722-76-1)	
Monoammonium Phosphat ACGIH	e (7722-76-1)  Not applicable	

potassium sulfate (7778-80-5	5)
ACGIH	Not applicable
OSHA	Not applicable

Iron Oxysulfate	
ACGIH	Not applicable
OSHA	Not applicable

wax (paraffins- petroleum) (64771-72-8)		
ACGIH	Not applicable	
OSHA	Not applicable	

ASN-26 26-0-0	
ACGIH	Not applicable
OSHA	Not applicable

ammonium sulfate (7783-20-2)	
ACGIH	Not applicable
OSHA	Not applicable

#### 8.2. Exposure controls

Personal protective equipment : Avoid all unnecessary exposure.

Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or safety glasses.

Respiratory protection : Wear appropriate mask.

Other information : Do not eat, drink or smoke during use.

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

# 9.1. Information on basic physical and chemical properties

Physical state : Solid

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Appearance Granules. Colour : Multi-colored Odour characteristic Odour threshold No data available рΗ No data available Melting point No data available : No data available Freezing point Boiling point No data available Flash point : No data available : No data available Relative evaporation rate (butylacetate=1) Flammability (solid, gas) No data available **Explosive limits** : No data available Explosive properties No data available Oxidising properties : No data available Vapour pressure : No data available Relative density No data available Relative vapour density at 20 °C : No data available Solubility Soluble.

Water: Solubility in water of component(s) of the mixture :

• Monoammonium Phosphate: 38 g/100ml • potassium sulfate: 11 g/100ml • wax (paraffins-

petroleum): insoluble • ammonium sulfate: 77 g/100ml

Log Pow : No data available
Log Kow : No data available
Auto-ignition temperature : No data available
Decomposition temperature : No data available
Viscosity : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available

#### 9.2. Other information

No additional information available

#### **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.

# 10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

# **SECTION 11: Toxicological information**

#### 11.1. Information on toxicological effects

Acute toxicity : Not classified

Monoammonium Phosphate (7722-76-1)		
LD50 oral rat	5750 mg/kg (Rat)	
LD50 dermal rat	> mg/kg	

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Monoammonium Phosphate (7722-76-1)			
LD50 dermal rabbit	> 7940 mg/kg (Rabbit)		
ATE US (oral)	5750.000 mg/kg bodyweight		
potassium sulfate (7778-80-5)			
LD50 oral rat	6600 mg/kg (Rat)		
ATE US (oral)	6600.000 mg/kg bodyweight		
wax (paraffins- petroleum) (64771-72-8)			
LD50 oral rat	> 5000 mg/kg (Rat)		
LD50 dermal rabbit	> 2000 mg/kg (Rabbit)		
ammonium sulfate (7783-20-2)			
LD50 oral rat	2840 mg/kg (Rat)		
LD50 dermal rat	> 2000 mg/kg		
ATE US (oral)	2840.000 mg/kg bodyweight		
Skin corrosion/irritation	: Not classified		
Serious eye damage/irritation	: Causes eye irritation.		

Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated

Respiratory or skin sensitisation

Germ cell mutagenicity

Carcinogenicity

exposure)

: Not classified

: Not classified

: Not classified

: Not classified

Aspiration hazard : Not classified

Potential adverse human health effects and

symptoms

: Based on available data, the classification criteria are not met.

Symptoms/injuries after inhalation : May cause respiratory irritation.

Symptoms/injuries after eye contact : Causes eye irritation.

# SECTION 12: Ecological information

#### 12.1. Toxicity

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)		

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)	

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12.2.	Persistence	and de	egradability	,
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Best Nitra King 21-2-4-2.0 Fe			
Persistence and degradability	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.		
wax (paraffins- petroleum) (64771-72-8)			
Persistence and degradability	Readily biodegradable in water.		
ASN-26 26-0-0			
Persistence and degradability	Not established.		
ammonium sulfate (7783-20-2)			
Persistence and degradability	Biodegradability in water: no data available. Not established.		

# 12.3. Bioaccumulative potential

Best Nitra King 21-2-4-2.0 Fe		
Bioaccumulative potential	Not established.	
Monoammonium Phosphate (7722-76-1)		
Bioaccumulative potential	Not bioaccumulative. Not established.	
potassium sulfate (7778-80-5)		
Bioaccumulative potential	Not bioaccumulative. Not established.	
Iron Oxysulfate		
Bioaccumulative potential	Not established.	
wax (paraffins- petroleum) (64771-72-8)		
Bioaccumulative potential	No bioaccumulation data available.	
ASN-26 26-0-0		
Bioaccumulative potential	Not established.	
ammonium sulfate (7783-20-2)		
Log Pow	-5.1	
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.	

## 12.4. Mobility in soil

No additional information available

# 12.5. Other adverse effects

Effect on the global warming : No known ecological damage caused by this product.

Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

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

Ecology - waste materials : Avoid release to the environment.

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# **SECTION 14: Transport information**

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

In accordance with DOT

Not regulated for transport

#### **Additional information**

Other information

: No supplementary information available.

#### **ADR**

No additional information available

#### Transport by sea

No additional information available

#### Air transport

No additional information available

#### **SECTION 15: Regulatory information**

#### 15.1. US Federal regulations

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	
wax (paraffins- petroleum)	CAS No 64771-72-8	
ASN-26 26-0-0	CAS No	

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

## 15.2. International regulations

# **CANADA**

No additional information available

#### **EU-Regulations**

No additional information available

#### Classification according to Regulation (EC) No. 1272/2008 [CLP]

No additional information available

## Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

# **National regulations**

No additional information available

# 15.3. US State regulations

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

# **SECTION 16: Other information**

Other information : None.

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#### Full text of H-phrases:

Eye Irrit. 2B	Serious eye damage/eye irritation, Category 2B
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H320	Causes eye irritation
H335	May cause respiratory irritation

#### SDS US (GHS HazCom 2012)

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