# Safety Data Sheet

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### **SECTION 1: Identification**

1.1. Identification

Product form : Mixture

Product name : Best Nitrex 20-2-3-5 Fe

Product code : M827853

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

No additional information available

### 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

Serious eye damage/eye

H320

Causes eye irritation

irritation, Category 2B Specific target organ

H335

May cause respiratory irritation

toxicity — Single exposure, Category 3, Respiratory

tract 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) : 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

P264 - wash hands, forearms and face thoroughly after h

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 ...in accordance with local/regional/national regulations

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

No additional information available

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

Not applicable

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

#### 3.1. Substance

Not applicable

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#### 3.2. **Mixture**

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
Granusol Fe 50%			Acute Tox. 3 (Oral), H301 Carc. 1A, H350
wax (paraffins- petroleum)	(CAS No) 64771-72-8		Not classified

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

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

### **Description of first aid measures**

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical First-aid measures general advice (show the label where possible).

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

Remove affected clothing and wash all exposed skin area with mild soap and water, followed First-aid measures after skin contact by warm water rinse. Wash skin with plenty of water.

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. Rinse eyes with water as a precaution.

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. Call a poison

center or a doctor if you feel unwell.

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

Potential adverse human health effects and

First-aid measures after ingestion

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.

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

Treat symptomatically.

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

# Suitable (and unsuitable) extinguishing media

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

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

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

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

### 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 environment.

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

not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

**SECTION 6: Accidental release measures** 

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

#### 6.1.1 For non-emergency personnel

**Emergency procedures** : Ventilate spillage area. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. Equip cleanup crew with

proper protection. For further information refer to section 8: "Exposure controls/personal

protection".

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Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Avoid release to the environment. 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 : Recover mechanically the product. On land, sweep or shovel into suitable containers. Minimize

generation of dust. Store away from other materials.

Other information : Dispose of materials or solid residues at an authorized site.

### 6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

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

### 7.1. Precautions for safe handling

Precautions for safe handling : Wear personal protective equipment. 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 : Do not eat, drink or smoke when using this product. Always wash hands after handling the

41.104

### 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. Store in a well-ventilated place. Keep cool.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

### SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

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

Not applicable

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

Not applicable

### Iron Oxysulfate

Not applicable

### wax (paraffins- petroleum) (64771-72-8)

Not applicable

### ASN-26 26-0-0

Not applicable

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

Not applicable

### **Granusol Fe 50%**

Not applicable

### 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/Personal protective equipment

### Personal protective equipment:

Avoid all unnecessary exposure.

#### Hand protection:

Wear protective gloves

### Eye protection:

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Chemical goggles or safety glasses. Safety glasses

### Skin and body protection:

Wear suitable protective clothing

### 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

: Solid Physical state Appearance : Granules. Colour : Multi-colored Odour characteristic Odour threshold : No data available рΗ : No data available : No data available Melting point : Not applicable Freezing point Boiling point No data available : Not applicable Flash point Relative evaporation rate (butylacetate=1) : No data available Flammability (solid, gas) : Non flammable. Vapour pressure : No data available Relative vapour density at 20 °C No data available Relative density : Not applicable Solubility : Soluble.

Log Pow : No data available Auto-ignition temperature : Not applicable No data available Decomposition temperature Viscosity, kinematic : Not applicable Viscosity, dynamic : No data available **Explosive limits** : Not applicable Explosive properties : No data available : No data available Oxidising properties

## 9.2. Other information

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

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.

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### 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
LD50 dermal rabbit	> 7940 mg/kg (Rabbit)
ATE US (oral)	5750 mg/kg bodyweight
potassium sulfate (7778-80-5)	
LD50 oral rat	6600 mg/kg (Rat)
ATE US (oral)	6600 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 mg/kg bodyweight
Granusol Fe 50%	
ATE US (oral)	153.8461538462 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes eye irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
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Specific target organ toxicity (single exposure) : May cause respiratory irritation.

Specific target organ toxicity (repeated

exposure)

: 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

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

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)	

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potassium sulfate (7778-80-5)	
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 TLM fish 1	433 mg/l (50 h; Daphnia magna) 1290 ppm (96 h; Gambusia affinis)
I LIVI IISII I	1290 ppin (90 n, Gambusia amins)
12.2. Persistence and degradability	
Best Nitrex 20-2-3-5 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.
Granusol Fe 50%	
Persistence and degradability	Not established.
12.3. Bioaccumulative potential	
Best Nitrex 20-2-3-5 Fe	
Bioaccumulative potential	Not established.
Monoammonium Phosphate (7722-76-1)	1400 GOUDINITION.
Bioaccumulative potential	Not bioaccumulative. Not established.
·	Not bloadediffulative. Not established.
potassium sulfate (7778-80-5)	Not bioaccumulative. Not established.
Bioaccumulative potential	INOL DIDACCUITUIALIVE. INOL ESTADIISTIEU.
Iron Oxysulfate	Not actablished
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.

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Granusol Fe 50%	
Bioaccumulative potential	Not established.

### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Effect on the global warming : No known effects from this product.

GWPmix comment : No known effects from this product.

Other information : Avoid release to the environment.

# **SECTION 13: Disposal considerations**

### 13.1. Disposal methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

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

Ecology - waste materials : Avoid release to the environment.

# **SECTION 14: Transport information**

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

In accordance with DOT

Other information : No supplementary information available.

TDG

Transport by sea

Air transport

### **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	%
Granusol Fe 50%	CAS No	%

### 15.2. International regulations

#### **CANADA**

No additional information available

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

Listed on the Canadian DSL (Domestic Substances List)

### **EU-Regulations**

No additional information available

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### **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, developmental and/or reproductive harm

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

Other information : None.

### Full text of H-statements:

H301	Toxic if swallowed
H320	Causes eye irritation
H335	May cause respiratory irritation
H350	May cause cancer

### SDS US (GHS HazCom 2012)

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