

Safety Data Sheet

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

Revision date: 11/16/2021 Version: 1.0

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

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

Serious eye damage/eye irritation, Category 2B

H320 Causes eye irritation

Specific target organ toxicity — Single exposure, Category 3, Respiratory tract 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) : 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.

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. Substances

Not applicable

3.2. Mixtures

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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
Granusol Fe 50%			Acute Tox. 3 (Oral), H301 Carc. 1A, H350 STOT RE 2, H373
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

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. 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 : Remove affected clothing and wash all exposed skin area with mild soap and water, followed

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.

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

center or a doctor if you feel unwell.

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

Potential adverse human health effects and : Ba

symptoms

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

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after eye contact : Causes eye irritation.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. 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.

5.2. Specific hazards arising from the chemical

Hazardous decomposition products in case of : Toxic fumes may be released.

fire

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. 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

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 : Mechanically

: Mechanically recover the product. On land, sweep or shovel into suitable containers. Minimise

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

product.

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

Best Nitrex 20-2-3-5 Fe

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

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

No additional information available

ASN-26 26-0-0

No additional information available

ammonium sulfate (7783-20-2)

No additional information available

Granusol Fe 50%

No additional information available

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:

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Wear protective gloves.

Eye protection:

Chemical goggles or safety glasses. Safety glasses

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask

Personal protective equipment symbol(s):



Physical state

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

Appearance : Granules. Colour : Multi-colored Odour : characteristic Odour threshold No data available рΗ No data available Melting point : No data available : Not applicable Freezing point Boiling point : No data available Flash point Not applicable 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.

: No data available Partition coefficient n-octanol/water (Log Pow) Auto-ignition temperature : Not applicable : No data available Decomposition temperature : No data available Viscosity, kinematic 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

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

Monoammonium Phosphate (7722-76-1)	
LD50 oral rat	5750 mg/kg (Rat)
LD50 dermal rabbit	> 7940 mg/kg (Rabbit)

potassium sulfate (7778-80-5)

LD50 oral rat 6600 mg/kg (Rat)

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

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

STOT-single exposure : May cause respiratory irritation.

Monoammonium Phosphate (7722-76-1)	
STOT-single exposure	May cause respiratory irritation.

ASN-26 26-0-0	
STOT-single exposure May cause respiratory irritation.	
ammonium sulfate (7783-20-2)	

STOT-repeated exposure : Not classified

Granusol Fe 50%		
STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.		
Aspiration hazard	: Not classified	
Viscosity, kinematic	: No data available	
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Potential adverse human health effects and

symptoms

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

Symptoms/effects after inhalation : May cause respiratory irritation.

Symptoms/effects after eye contact : Causes eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

 $: \ \, \text{The product is not considered harmful to aquatic organisms nor to cause long-term adverse}$

-444-	: 41	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)	
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)	

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.	
		0/0

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Monoammonium Phosphate (7722-76-1)			
Bioaccumulative potential	Not bioaccumulative. Not established.		
potassium sulfate (7778-80-5)	assium 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)			
Partition coefficient n-octanol/water (Log Pow)	-5.1		
Bioaccumulative potential	Bioaccumulation: not applicable. Not established.		
Granusol Fe 50%			
Bioaccumulative potential	Not established.		

12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Other information : Avoid unintentional 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 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 Nitrex 20-2-3-5 Fe

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.	%
ASN-26 26-0-0	CAS-No.	%
Granusol Fe 50%	CAS-No.	%

15.2. International regulations

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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)

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

Listed on the Canadian DSL (Domestic Substances List)

ammonium sulfate (7783-20-2)

Listed on the Canadian DSL (Domestic Substances List)

Granusol Fe 50%

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

EU-Regulations

No additional information available

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

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

SECTION 16: Other information

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

Revision date : 11/16/2021 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.
H373	May cause damage to organs through prolonged or repeated exposure.

SDS US (GHS HazCom 2012)

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