

# Safety Data Sheet

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

Date of issue: 02/01/2024 Version: 1.0

# **SECTION 1: Identification**

#### 1.1. Identification

Product form : Mixture

Product name : Nature Safe Soil Rx 4-0-1 Soil Food Fertilizer

## 1.2. Recommended use and restrictions on use

Use of the substance/mixture : Fertilizer

# 1.3. Supplier

Darling Ingredients Inc 5601 N MacArthur Blvd Irving, 75038 - United States T 1-800-800-4841 info@darlingii.com

## 1.4. Emergency telephone number

Emergency number : 1-800-800-4841

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

# 2.1. Classification of the substance or mixture

## **GHS-US** classification

Not classified

# 2.2. GHS Label elements, including precautionary statements

# **GHS US labelling**

No labelling applicable

# 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

Name	Product identifier	%	GHS-US classification
Food By-products	NA	60-70	Combustible dust
Meat Meal	NA	10-15	Combustible Dust
Ammonium sulfate	7783-20-2	10-15*	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319
Potassium Magnesium Sulfate	14977-37-8	5-6*	Combustible dust
Lignosulfonic Acid	8061-52-7	0-3*	H413 (100%): May cause long lasting harmful effects to aquatic life

<sup>\*</sup>Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

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 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 eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

No additional information available.

## Immediate medical attention and special treatment, if necessary

Treat symptomatically.

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

# Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam.

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

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

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

: Do not attempt to take action without suitable protective equipment. Self-Protection during firefighting

contained breathing apparatus. Complete protective clothing.

# **SECTION 6: Accidental release measures**

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

#### For non-emergency personnel

Emergency procedures : Ventilate spillage area.

#### 6.1.2. For emergency responders

: Do not attempt to take action without suitable protective equipment. For further Protective equipment

information refer to section 8 Exposure controls/personal protection.

#### 6.2. **Environmental precautions**

Avoid release to the environment.

# Methods and material for containment and cleaning up

Methods for cleaning up : Recover mechanically. Onland, sweep or shovel into suitable containers. Minimize

generation of dust.

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

# Reference to other sections

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

# **SECTION 7: Handling and storage**

# Precautions for safe handling

Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after

handling the product.

# Conditions for safe storage, including any incompatibilities

Storage conditions : Store in a well-ventilated place. Keep cool.

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

#### 8.1. **Control parameters**

# Ammonium sulfate (7783-20-2)

No additional information available

# Potassium sulfate (7778-80-5)

No additional information available

## Lignosulfonic Acid (8061-52-7)

No additional information available

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#### 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

# Hand protection:

Protective gloves

# Eye protection:

Safety glasses

## Skin and body protection:

Wear suitable protective clothing

# **Respiratory protection:**

Not required under normal conditions.

# SECTION 9: Physical and chemical properties

# Information on basic physical and chemical properties

Physical state : Solid **Appearance** : Aggregate Odor threshold : No data available pН : No data available Melting point : No data available Freezing point : Not applicable Boiling point : No data available : Not applicable Flash point Relative evaporation rate (butylacetate=1) : No data available : No data available Flammability : No data available Vapor pressure

Relative vapor density at 20°C : No data available Relative density : No data available Solubility : No data available : No data available

Partition coefficient n-octanol/water (Log

Pow)

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

## Other information

No additional information available

# **SECTION 10: Stability and reactivity**

# Reactivity

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

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# 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

No additional information available

# 10.5. Incompatible materials

No additional information available

## 10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

Acute toxicity : Not classified

Potassium sulfate (7778-80-5)	
LD50 oral rat	6600 mg/kg

Ammonium sulfate (7783-20-2)	
LD50 oral rat	2840 mg/kg
ATE US (oral)	500 mg/kg bodyweight
Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Not classified
Respiratory or skin sensitisation	: Not classified

: Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : Not classified

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

# **SECTION 12: Ecological information**

# 12.1. Toxicity

Germ cell mutagenicity

Ammonium sulfate (7783-20-2)			
LC50 - Fish [1]	250 mg/l (Exposure time: 96 h - Species: Brachydanio rerio)		
EC50 - Crustacea [1]	14 mg/l (Exposure time: 48 h - Species: Daphnia magna)		
LC50 - Fish [2]	480 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [flow-through])		
Potassium sulfate (7778-80-5)			
Potassium sulfate (7778-80-5)			
Potassium sulfate (7778-80-5) LC50 - Fish [1]	653 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus)		
	653 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus) 890 mg/l (Exposure time: 48 h - Species: Daphnia magna)		

# 12.2. Persistence and degradability

No additional information available

# 12.3. Bioaccumulative potential

Ammonium sulfate (7783-20-2)	
Partition coefficient n-octanol/water (Log Pow)	-5.1 (at 25 °C)

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# 12.4. Mobility in soil

No additional information available

## 12.5. Other adverse effects

No additional information available.

# **SECTION 13: Disposal considerations**

# 13.1. Disposal methods

Waste treatment methods

: Dispose of contents/container in accordance with local, state, and federal regulations.

# **SECTION 14: Transport information**

# **Department of Transportation (DOT)**

In accordance with DOT

No additional information available

# **Transportation of Dangerous Goods**

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

No additional information available.

# Ammonium sulfate (7783-20-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

# Potassium sulfate (7778-80-5)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

This product or mixture is not known to 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**

# Ammonium sulfate (7783-20-2)

Listed on the Canadian DSL (Domestic Sustances List) inventory.

# Potassium sulfate (7778-80-5)

Listed on the Canadian DSL (Domestic Sustances List) inventory.

# **EU-Regulations**

# Ammonium sulfate (7783-20-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

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# Potassium sulfate (7778-80-5)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) substances.

# **National regulations**

## Ammonium sulfate (7783-20-2)

Listed on the AICS (the Australian Inventory of Chemical Substances)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on Industrial Safety and Health Law Substances (ISHL)

Listed on the Korean ECL (Existing Chemical List) inventory.

Listed on New Zealand - Inventory of Chemicals (NZIoC)

Listed on Inventory of Chemicals and Chemical Substances (PICCS)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

Listed on Turkish inventory of chemical

## Potassium sulfate (7778-80-5)

Listed on the AICS (the Australian Inventory of Chemical Substances)

Listed on Inventory of Existing Chemical Substances (IECSC)

Listed on the Japanese ENCS (Existing & New Chemicals Substances) inventory.

Listed on Industrial Safety and Health Law Substances (ISHL)

Listed on the Korean ECL (Existing Chemical List) inventory.

Listed on New Zealand - Inventory of Chemicals (NZIoC)

Listed on Inventory of Chemicals and Chemical Substances (PICCS)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

Taiwan Chemical Substance Inventory

## 15.3. US State regulations

No additional information available

# **SECTION 16: Other information**

Full	I text of H-statements:		
	H302	Harmful if swallowed.	
	H319	Causes serious eye irritation.	

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

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