# **SAFETY DATA SHEET**



#### SIGNATURE RYDER™ 3-0-0

### **Section 1. Identification**

Product identifier : SIGNATURE RYDER™ 3-0-0

SDS # : 303
Product type : Liquid.

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

**Identified uses** 

Fertilizer.

**Uses advised against** 

Not available.

Supplier's details : LOVELAND PRODUCTS, INC.

P.O. Box 1286

Greeley, CO 80632-1286

Telephone no.: : 1-888-574-2878 (Customer Service)

Email : retail-SDS2@nutrien.com

Emergency telephone number (with hours of

operation)

: CHEMTREC: 1-800-424-9300 (24 hrs)

Medical Emergencies: 1-866-944-8565 (24 hrs)

# Section 2. Hazard identification

OSHA/HCS status : While this material is not considered hazardous by the OSHA Hazard

Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of the product. This SDS should be retained and available for employees and other users of this product.

Classification of the substance or mixture

: Not classified.

**GHS label elements** 

Hazard pictograms : Not applicable.

Signal word : No signal word.

**Hazard statements** : No known significant effects or critical hazards.

**Precautionary statements** 

General: Read label before use. Keep out of reach of children. If medical advice is needed,

have product container or label at hand.

Prevention : Not applicable.
Response : Not applicable.
Storage : Not applicable.
Disposal : Not applicable.

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# Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	% (w/w)	CAS number
ammonium nitrate	4 - 5	6484-52-2
urea	3 - 4	57-13-6

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First-aid measures

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

**Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower

eyelids. Check for and remove any contact lenses. Continue to rinse for at least 15

minutes. Get medical attention if irritation occurs.

**Inhalation**: Remove person to fresh air. No known significant effects. Seek medical attention

for any signs of wheezing and/or breathing difficulties. For additional advice call the medical emergency number on this SDS or your poison center or medical provider.

**Skin contact**: Flush contaminated skin with plenty of water. Remove contaminated clothing and

shoes. Get medical attention if symptoms occur.

**Ingestion**: Wash out mouth with water. If material has been swallowed and the exposed

person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms

occur.

#### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

**Eye contact** : May cause mild eye irritation.

Inhalation : No known significant effects or critical hazards.

**Skin contact**: May cause slight transient irritation.

**Ingestion**: No known significant effects or critical hazards. Over-exposure by ingestion is

unlikely under normal working conditions.

#### Over-exposure signs/symptoms

**Eye contact**: Adverse symptoms may include the following:

redness watering

Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician : In case of inhalation of decomposition products in a fire, symptoms may be delayed.

The exposed person may need to be kept under medical surveillance for 48 hours.

**Specific treatments**: Treat symptomatically and supportively.

**Protection of first-aiders**: No action shall be taken involving any personal risk or without suitable training.

Decontamination measures may be necessary. Personnel and equipment must be

checked and decontaminated prior to leaving the area.

#### See toxicological information (Section 11)

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# Section 5. Fire-fighting measures

#### **Extinguishing media**

Suitable extinguishing media

Unsuitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire. Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

: Do not use water jet.

Specific hazards arising from the chemical

Hazardous thermal decomposition products

: In a fire or if heated, a pressure increase will occur and the container may burst.

 Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Contain and collect the water used to fight the fire for later treatment and disposal.

Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

### Section 6. Accidental release measures

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

For non-emergency personnel

: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

For emergency responders:

If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** 

: Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused adverse impacts (sewers, waterways, soil or air).

#### Methods and materials for containment and cleaning up

**Small spill** 

: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor. Use appropriate equipment to put the spilled substance in a container for reuse or disposal.

Large spill

: Stop leak if without risk. Put on appropriate personal protective equipment (see Section 8). Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Use appropriate equipment to put the spilled substance in a container for reuse or disposal. Recycle to process, if possible.

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Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

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# Section 7. Handling and storage

#### **Precautions for safe handling**

**Protective measures** 

: Read label before use. Apply this product only as specified on the label. Do not handle until all safety precautions have been read and understood. Put on appropriate personal protective equipment (see Section 8).

Advice on general occupational hygiene

: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. While AN solution as produced is not classified as an oxidizer, it is important to prevent conditions during handling and storage which may result in concentration of the product which may encourage it to behave as an oxidizer. Ensure that AN solution pumps are thermally protected against exceeding a temperature of 66 deg. C (150 deg. F). Also ensure that piping sytems, if insulated, are not externally heated (heat traced). Protect from freezing.

# Section 8. Exposure controls/personal protection

**Control parameters** 

Occupational exposure limits

None.

Appropriate engineering controls

re

: Ensure compliance with OSHA 29CFR1910.109 requirements.

**Environmental exposure** controls

: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

#### Individual protection measures

Contact your personal protective equipment manufacturer to verify the compatibility of the equipment for the intended purpose.

**Hygiene measures** 

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

**Eye/face protection** 

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

**Skin protection** 

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

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# Section 8. Exposure controls/personal protection

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Recommended: Long-sleeved shirt and long pants.

Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

For U.S. work sites where respiratory protection is required, ensure that a respiratory protection program meeting 29 CFR 1910.134 requirements is in place.

# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

#### **Appearance**

Physical state : Liquid.

Color : Colorless.

Odor : Mild.

Odor threshold : Not available.

PH : Not available.

Melting point/freezing point : Not available.

Boiling point, initial boiling : Not available.

point, and boiling range

Flash point : Does not flash.

Evaporation rate : Not available.

Flammability : Not available.

Lower and upper explosion : Not available.

 limit/flammability limit

 Vapor pressure
 : Not available.

 Relative vapor density
 : Not available.

 Relative density
 : Not available.

 Density
 : 1.03 g/cm³

**Solubility** : Easily soluble in the following materials: cold water and hot water.

Solubility in water : Not available.

Miscible with water : Yes.

Partition coefficient: n- : No

octanol/water

**Bulk density** 

: Not applicable.

: 8.6 lb/gal

Auto-ignition temperature : Not available.

Decomposition temperature : Not available.

Viscosity : Not available.

Particle characteristics

Median particle size : Not applicable.

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# Section 10. Stability and reactivity

Reactivity

: No specific test data related to reactivity available for this product or its ingredients.

**Chemical stability** 

: The product is stable.

Possibility of hazardous reactions

: If mixed with chlorine or hypochlorites, it may form nitrogen trichloride which may

explode spontaneously in air.

**Conditions to avoid** 

: Excessive heat.

Incompatible materials

: Strong oxidizers, strong acids, strong alkalis.

Hazardous decomposition products

: Under normal conditions of storage and use, hazardous decomposition products

should not be produced.

# Section 11. Toxicological information

#### Information on toxicological effects

#### **Acute toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
ammonium nitrate urea	LD50 Oral LD50 Oral	Rat Rat - Male, Female	2217 mg/kg 14300 mg/kg	-

#### **Conclusion/Summary**

: No known significant effects or critical hazards.

#### **Irritation/Corrosion**

Product/ingredient name	Result	Species	Score	Exposure	Observation
ammonium nitrate	Skin - Edema	Rabbit	0	-	72 hours
	Eyes - Edema of the conjunctivae	Rabbit	3	-	3 days
urea	Skin - Edema	Rabbit	0	-	72 hours

#### **Conclusion/Summary**

**Skin** : May cause slight transient irritation.

**Eyes** : May cause mild eye irritation.

**Respiratory** : No known significant effects or critical hazards.

#### **Sensitization**

3	Route of exposure	Species	Result
ammonium nitrate	skin	Mouse	Not sensitizing
urea	skin	Mouse	Not sensitizing

#### **Conclusion/Summary**

Skin : No known significant effects or critical hazards.

**Respiratory**: No known significant effects or critical hazards.

**Mutagenicity** 

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# **Section 11. Toxicological information**

Product/ingredient name	Test	Experiment	Result
ammonium nitrate	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative
	OECD 476 In vitro Mammalian Cell Gene Mutation Test	Experiment: In vitro Subject: Mammalian-Animal	Negative
urea	OECD 471 Bacterial Reverse Mutation Test	Experiment: In vitro Subject: Bacteria	Negative

**Conclusion/Summary** 

: No known significant effects or critical hazards.

**Carcinogenicity** 

Not available.

**Conclusion/Summary** 

: No known significant effects or critical hazards.

**Classification** 

Product/ingredient name	IARC	NTP	ACGIH
ammonium nitrate	2A	-	-

#### Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Development toxin	Species	Dose	Exposure
ammonium nitrate	Negative	Negative	Negative		Oral: 1500 mg/ kg	-

#### **Conclusion/Summary**

: No known significant effects or critical hazards.

#### **Teratogenicity**

Product/ingredient name	Result	Species	Dose	Exposure
ammonium nitrate	Negative - Oral	Rat - Female	1500 mg/kg	-

**Conclusion/Summary** 

: No known significant effects or critical hazards.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

**Aspiration hazard** 

Not available.

Information on the likely routes of exposure

: Dermal contact. Eye contact. Ingestion.

Potential acute health effects

**Eye contact** : May cause mild eye irritation.

**Inhalation** : No known significant effects or critical hazards.

**Skin contact** : May cause slight transient irritation.

**Ingestion**: No known significant effects or critical hazards. Over-exposure by ingestion is

unlikely under normal working conditions.

#### Symptoms related to the physical, chemical and toxicological characteristics

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# **Section 11. Toxicological information**

**Eye contact** : Adverse symptoms may include the following:

redness watering

Inhalation: No specific data.Skin contact: No specific data.Ingestion: No specific data.

#### Delayed and immediate effects and also chronic effects from short and long term exposure

**Short term exposure** 

Potential immediate : See above.

effects

Potential delayed effects : See below.

**Long term exposure** 

Potential immediate : See above.

effects

Nitrate based product. Methemoglobinemia (see Acute Health Effects).

Potential delayed effects : See below.

#### Potential chronic health effects

Product/ingredient name	Result	Species	Dose	Exposure
ammonium nitrate	Chronic NOAEL Oral	Rat - Male, Female	256 mg/kg	12 months Continuous
urea	Chronic NOAEL Oral	Rat - Male, Female	2250 mg/kg	12 months Continuous

Conclusion/Summary
 No known significant effects or critical hazards.
 Carcinogenicity
 No known significant effects or critical hazards.
 Mutagenicity
 No known significant effects or critical hazards.
 Reproductive toxicity
 No known significant effects or critical hazards.
 No known significant effects or critical hazards.

#### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapors) (mg/l)	Inhalation (dusts and mists) (mg/l)
ammonium nitrate		N/A	N/A	N/A	N/A
urea		N/A	N/A	N/A	N/A

Other information : Not available.

# **Section 12. Ecological information**

#### **Toxicity**

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# **Section 12. Ecological information**

Product/ingredient name	Result	Species	Exposure
ammonium nitrate	NOEC >1700 mg/l	Algae	10 days
	Acute EC50 490 mg/l	Daphnia	48 hours
	Chronic NOEC 6 to 12 mg/l Fresh water	Crustaceans - Cladocera	21 days
urea	Acute EC50 6573.1 mg/l Fresh water	Crustaceans - Ceriodaphnia dubia - Neonate	48 hours
	Acute EC50 3910000 μg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 22500 mg/l Chronic NOEC 2 g/L Fresh water	Fish - Tilapia - Fry Fish - Heteropneustes fossilis	48 hours 30 days

#### **Conclusion/Summary**

: May be harmful to the environment if released in large quantities. Excessive nutrient runoff to a body of water may result in eutrophication. Apply this product only as specified on the label.

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ammonium nitrate	-	-	Readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
urea	<-1.73	-	low

#### **Mobility in soil**

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

# Section 13. Disposal considerations

#### **Disposal methods**

: Read label before use. Follow disposal instructions on label. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Triple rinse containers with water and add the rinse water to the spray tank. Disposal should be in accordance with applicable regional, national and local laws and regulations. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler visit the ACRC web page at http://www.acrecycle.org/. Do not contaminate water, food or feed by storage or disposal.

# **Section 14. Transport information**

	TDG	DOT	IMDG	IATA
UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
UN proper shipping name	-		-	-
Transport hazard class(es)	-	-	-	-
Packing group	-	-	-	-
Marine pollutant	No.	No.	No.	No.

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# **Section 14. Transport information**

**Special precautions for user**: **Transport within user's premises:** always transport in closed containers that are

upright and secure. Ensure that persons transporting the product know what to do in

the event of an accident or spillage.

# Section 15. Regulatory information

**Canadian lists** 

Canadian NPRI : The following components are listed: ammonia (total)

**CEPA Toxic substances** : None of the components are listed.

**International regulations** 

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

**Montreal Protocol** 

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

**UNECE Aarhus Protocol on POPs and Heavy Metals** 

Not listed.

**Inventory list** 

Australia : Not determined.
Canada : Not determined.
China : Not determined.
Europe : Not determined.

Japan : Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : Not determined.
Philippines : Not determined.
Republic of Korea : Not determined.
Taiwan : Not determined.
Thailand : Not determined.
Turkey : Not determined.

**United States**: All components are active or exempted.

Viet Nam : Not determined.

U.S. Federal regulations : TSCA 8(a) CDR Exempt/Partial exemption: Not determined

Clean Water Act (CWA) 311: ammonia, anhydrous

Clean Air Act Section 112(b) : Listed

**Hazardous Air Pollutants** 

(HAPs)

**Clean Air Act Section 602** 

Class I Substances

: Not listed

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# **Section 15. Regulatory information**

Clean Air Act Section 602

**Class II Substances** 

: Not listed

DEA List I Chemicals

: Not listed

(Precursor Chemicals)

**DEA List II Chemicals** (Essential Chemicals)

: Not listed

#### **SARA 302/304**

#### **Composition/information on ingredients**

			SARA 302 TPQ		SARA 304 RQ	
Name	%	EHS	(lbs)	(gallons)	(lbs)	(gallons)
ammonia	< 0.1	Yes.	500	-	100	-

SARA 304 RQ : 5017561.5 lbs / 2277972.9 kg [584249.3 gal / 2211624.2 L]

**SARA 311/312** 

Classification : Not applicable.

#### **Composition/information on ingredients**

Name	%	Classification
ammonium nitrate	4 - 5	OXIDIZING SOLIDS - Category 3 EYE IRRITATION - Category 2A

#### **SARA 313**

	Product name	CAS number	%
Form R - Reporting requirements	ammonium nitrate	6484-52-2	4 - 5
Supplier notification	ammonium nitrate	6484-52-2	4 - 5

SARA 313 notifications must not be detached from the SDS and any copying and redistribution of the SDS shall include copying and redistribution of the notice attached to copies of the SDS subsequently redistributed.

#### State regulations

Massachusetts : The following components are listed: ammonium nitrate

**New York**: None of the components are listed.

New Jersey : The following components are listed: ammonium nitrate
Pennsylvania : The following components are listed: ammonium nitrate

#### California Prop. 65

▲ WARNING: This product can expose you to chemicals including cadmium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www. P65Warnings.ca.gov.

# Section 16. Other information

#### **History**

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## **Section 16. Other information**

#### Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

HPR = Hazardous Products Regulations

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

N/A = Not available

SGG = Segregation Group

UN = United Nations

#### Procedure used to derive the classification

Not classified.

Indicates information that has changed from previously issued version.

#### **Notice to reader**

Supply chain partners must ensure they pass this SDS, and all other relevant safety information to their customers.

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