# SAFETY DATA SHEET



# 1. Identification

Product identifier	RNA MICROSOL 10-20-30	)
Other means of identification	None.	
Recommended use	Ag Product - Plant Nutritior	1
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier	Distributor information	
Manufacturer		
Company name Address	RNA RNA 22312 Railroad Avenue San Joaquin, CA 93660 United States	
Telephone	RNA	(559) 693-4520
E-mail	SDS@RNASDS.com	
Emergency phone number	Chemtrec- Domestic	(800) 424-9300
	Chemtrec - International	+1 703-741-5970
2. Hazard(s) identification	I	
Physical hazards	Not classified.	
Health hazards	Not classified.	
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		
Hazard symbol	None.	
Signal word	None.	
Hazard statement	The mixture does not meet	the criteria for classification.
Precautionary statement		
Prevention	Observe good industrial hygiene practices.	
Response	Wash hands after handling.	
Storage	Store away from incompatible materials.	
Disposal	Dispose of waste and resid	lues in accordance with local authority requirements.
Hazard(s) not otherwise classified (HNOC)	None known.	

Supplemental information None.

# 3. Composition/information on ingredients

#### **Mixtures**

Chemical name	Common name and synonyms	CAS number	%
Urea		57-13-6	10 - < 20
Mono Ammonium Phosphate		7722-76-1	5 - < 10
Potassium Nitrate		7757-79-1	5 - < 10
Other components below reportable levels			60 - < 70

Percentage ranges of composition to protect confidentiality or due to batch variation.

#### 4. First-aid measures

Inhalation	If dust from the material is inhaled, remove the affected person immediately to fresh air. Call a physician if symptoms develop or persist.
Skin contact	Wash off with soap and water. Get medical attention if irritation develops and persists.

Eye contact	Do not rub eyes. Rinse with water. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth. Get medical attention if symptoms occur.
Most important symptoms/effects, acute and delayed	Irritation of eyes. Upper respiratory tract irritation.
Indication of immediate medical attention and special treatment needed	Treat symptomatically.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.
5. Fire-fighting measures	
Suitable extinguishing media	Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from	During fire, gases hazardous to health may be formed.

Use water spray to cool unopened containers.

No unusual fire or explosion hazards noted.

Avoid discharge into drains, water courses or onto the ground.

incompatible materials (see Section 10 of the SDS).

No biological exposure limits noted for the ingredient(s).

(OEL), suitable respiratory protection must be worn.

section 8 of the SDS.

Practice good housekeeping.

Type TWA

SDS.

US. Workplace Environmental Exposure Level (WEEL) Guides

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Use standard firefighting procedures and consider the hazards of other involved materials.

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of

low areas. Wear appropriate protective equipment and clothing during clean-up. Avoid inhalation of dust from the spilled material. Use a NIOSH/MSHA approved respirator if there is a risk of

exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. For personal protection, see

If sweeping of a contaminated area is necessary use a dust suppressant agent which does not

react with the product. Collect dust using a vacuum cleaner equipped with HEPA filter. Minimize

dust generation and accumulation. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water. For waste disposal, see section 13 of the

Provide appropriate exhaust ventilation at places where dust is formed. Minimize dust generation and accumulation. Avoid breathing dust. Avoid contact with eyes. Avoid prolonged exposure.

Value

10 mg/m3

Form

Total particulate.

Store in original tightly closed container. Store in a well-ventilated place. Store away from

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation,

or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit

Material name: RNA MICROSOL 10-20-30 1380 Version #: 02 Revision date: 08-24-2017 Issue date: 05-10-2017

the chemical

Fire fighting

Special protective equipment

equipment/instructions Specific methods

General fire hazards

Personal precautions,

emergency procedures

protective equipment and

Methods and materials for

**Environmental precautions** 

7. Handling and storage Precautions for safe handling

Conditions for safe storage,

including any incompatibilities

Occupational exposure limits

Urea (CAS 57-13-6)

Components

**Biological limit values** 

controls

Appropriate engineering

8. Exposure controls/personal protection

containment and cleaning up

and precautions for firefighters

6. Accidental release measures

#### Individual protection measures, such as personal protective equipment

Eye/face protection	Use tight fitting goggles if dust is generated.
Skin protection Hand protection	Wear appropriate chemical resistant gloves.
Other	Wear suitable protective clothing.
Respiratory protection	Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

9. Physical and chemical properties		
Appearance	Granular.	
Physical state	Solid.	
Form	Powder. Granular.	
Color	Not available.	
Odor	Not available.	
Odor threshold	Not available.	
рН	Not available.	
Melting point/freezing point	Not available.	
Initial boiling point and boiling range	Not available.	
Flash point	Not available.	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not available.	
Upper/lower flammability or exp	losive limits	
Flammability limit - lower (%)	Not available.	
Flammability limit - upper (%)	Not available.	
Explosive limit - lower (%)	Not available.	
Explosive limit - upper (%)	Not available.	
Vapor pressure	Not available.	
Vapor density	Not available.	
Relative density	Not available.	
Solubility(ies)		
Solubility (water)	Not available.	
Partition coefficient (n-octanol/water)	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Not available.	
10. Stability and reactivity		
Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.	
Chemical stability	Material is stable under normal conditions.	
Possibility of hazardous	No dangerous reaction known under conditions of normal use.	

reactions	
Conditions to avoid	Contact with incompatible materials. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).
Incompatible materials	Strong oxidizing agents.

Hazardous decomposition products

# 11. Toxicological information

## Information on likely routes of exposure

Inhalation	Inhalation of dusts may cause respiratory irritation. Prolonged inhalation may be harmful.
Skin contact	No adverse effects due to skin contact are expected.
Eye contact	Dust in the eyes will cause irritation.
Ingestion	Expected to be a low ingestion hazard.
Symptoms related to the physical, chemical and toxicological characteristics	Irritation of eyes. Upper respiratory tract irritation.

#### Information on toxicological effects

Acute toxicity

Components	Species	Test Results
Mono Ammonium Phosphate (CA	AS 7722-76-1)	
Acute		
Dermal		
LD50	Rabbit	> 5000 mg/kg, 24 Hours
	Rat	> 5000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 5 mg/l, 4 Hours
Oral		
LD50	Rat	3252 mg/kg
Potassium Nitrate (CAS 7757-79-	-1)	
<u>Acute</u>		
Dermal		
LD50	Rat	> 5000 mg/kg, 24 Hours
Inhalation		
LC50	Rat	> 20 mg/l, 4 Hours
Oral		
LD50	Rat	> 2000 mg/kg
Urea (CAS 57-13-6)		
<u>Acute</u>		
Oral		
LD50	Mouse	13000 mg/kg
	Rat	15000 mg/kg
* Estimates for product may	be based on additional component dat	ta not shown.
Skin corrosion/irritation	Prolonged skin contact may cause	
Serious eye damage/eye irritation	Dust in the eyes will cause irritation	l.
Respiratory or skin sensitization	n	
<b>Respiratory sensitization</b>	Not available.	
Skin sensitization	This product is not expected to cau	se skin sensitization.
Germ cell mutagenicity	No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.	
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.	
Not listed.	Evaluation of Carcinogenicity ed Substances (29 CFR 1910.1001-1	050)
Not regulated.		
Material name: RNA MICROSOL 10-	20-30	SDS

#### US. National Toxicology Program (NTP) Report on Carcinogens

Not listed.

Reproductive toxicity	This product is not expected to cause reproductive or developmental effects.
Specific target organ toxicity - single exposure	Not classified.
Specific target organ toxicity - repeated exposure	Not classified.
Aspiration hazard	Not available.
Chronic effects	Prolonged inhalation may be harmful.

## 12. Ecological information

Ecotoxicity	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Other adverse effects	No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

#### 13. Disposal considerations

Disposal instructions	Collect and reclaim or dispose in sealed containers at licensed waste disposal site.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	The waste code should be assigned in discussion between the user, the producer and the waste disposal company.
Waste from residues / unused products	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings, if applicable, even after container is emptied.

#### 14. Transport information

#### DOT

Not regulated as dangerous goods.

#### ΙΑΤΑ

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not applicable. Annex II of MARPOL 73/78 and the IBC Code

#### 15. Regulatory information

**US** federal regulations

All components are on the U.S. EPA TSCA Inventory List.
This product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard
Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated. CERCLA Hazardous Substance List (40 CFR 302.4) Not listed. SARA 304 Emergency release notification Not regulated. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not regulated.

Hazard categories	Immediate Hazard Delayed Hazard - I Fire Hazard - No Pressure Hazard - Reactivity Hazard	No		
SARA 302 Extremely haz Not listed.	ardous substance			
SARA 311/312 Hazardous chemical	s No			
SARA 313 (TRI reporting)	)			
Chemical name		CAS number	% by wt.	_
AQUEOUS AMMONIA AMMONIUM SALTS A TOTAL AQUEOUS AM UNDER THIS LISTING	ÓS (WATER DISSOCIA	DCIABLE 3; 10% OF BLE	5 - < 10 5 - < 10	
ther federal regulations				
Clean Air Act (CAA) Sect	ion 112 Hazardous Air	Pollutants (HAPs) List		
Not regulated.				
Clean Air Act (CAA) Sect	ion 112(r) Accidental F	Release Prevention (40 C	FR 68.130)	
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
S state regulations				
US. California Propositio				
•		known to the State of Cal		
· · · · · ·		d date/Carcinogenic sub		
Nitrilotriacetic acio	d (CAS 139-13-9)	Listed: Janua	ary 1, 1988	
ternational Inventories				
Country(s) or region	Inventory name			On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)			Yes
Canada	Canada Domestic Substances List (DSL)			Yes
China	Inventory of Existir	ng Chemical Substances in	n China (IECSC)	Yes
Europe	European Inventor Substances (EINE	y of Existing Commercial ( CS)	Chemical	Yes

New Zealand New Zealand Inventory

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

# 16. Other information, including date of preparation or last revision

Issue date	05-10-2017
Revision date	08-24-2017
Version #	02
NFPA ratings	Health: 0 Flammability: 0 Instability: 0
NFPA ratings	



Yes

Yes

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