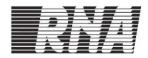
SAFETY DATA SHEET



1. Identification

Product identifier	RNA EDTA 5% IRON	
Other means of identification	None.	
Recommended use	Ag Product - Plant Nutrition	
Recommended restrictions	None known.	
Manufacturer/Importer/Supplier/	Distributor information	
Manufacturer		
Company name	RNA	
Address	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

Physical hazards	Not classified.	
Health hazards	Skin corrosion/irritation	Category 1C
	Serious eye damage/eye irritation	Category 1
Environmental hazards	Not classified.	
OSHA defined hazards	Not classified.	
Label elements		



Signal word	Danger
Hazard statement	Causes severe skin burns and eye damage. Causes serious eye damage.
Precautionary statement	
Prevention	Do not breathe mist or vapor. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Wear eye protection/face protection.
Response	If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center/doctor. Wash contaminated clothing before reuse.
Storage	Store locked up.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
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	%
EDTA Acid		60-00-4	20 - < 30

Chemical name	Common name and synonyms	CAS number	%
Aqua Ammonia		1336-21-6	3 - < 5
Other components below reportable levels			60 - < 70

*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures	
Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.
Skin contact	Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before reuse.
Eye contact	Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs.
Most important symptoms/effects, acute and delayed	Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Indication of immediate medical attention and special treatment needed	Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.
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 the chemical	During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Fire fighting equipment/instructions	Move containers from fire area if you can do so without risk.
Specific methods	Use standard firefighting procedures and consider the hazards of other involved materials.
General fire hazards	No unusual fire or explosion hazards noted.
6. Accidental release meas	sures

Personal precautions, protective equipment and emergency procedures	Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.
Methods and materials for containment and cleaning up	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. For waste disposal, see section 13 of the SDS.
	Never return spills to original containers for re-use.
Environmental precautions	Avoid discharge into drains, water courses or onto the ground.
7. Handling and storage	
Precautions for safe handling	Do not breathe mist or vapor. Do not get in eyes, on skin, or on clothing. Provide adequate ventilation. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. Use care in handling/storage. Avoid prolonged exposure.
Conditions for safe storage, including any incompatibilities	Store locked up. Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Components	Туре	Value
Aqua Ammonia (CAS 1336-21-6)	PEL	35 mg/m3
·		50 ppm
US. ACGIH Threshold Lim		
Components	Туре	Value
Aqua Ammonia (CAS 1336-21-6)	STEL	35 ppm
	TWA	25 ppm
US. NIOSH: Pocket Guide		
Components	Туре	Value
Aqua Ammonia (CAS 1336-21-6)	STEL	27 mg/m3
		35 ppm
	TWA	18 mg/m3
		25 ppm
logical limit values	No biological exposure limits noted	
propriate engineering trols	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 ventilatio or other engineering controls to maintain airborne levels below recommended exposure limits. exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.	
ividual protection measure	s, such as personal protective equipr	nent
Eye/face protection	Wear safety glasses with side shield	ds (or goggles) and a face shield.
Skin protection		
Hand protection	Wear appropriate chemical resistan supplier.	t gloves. Suitable gloves can be recommended by the glov
Other	Wear appropriate chemical resistan	t clothing.
Respiratory protection	In case of insufficient ventilation, we	ar suitable respiratory equipment.
Thermal hazards	Wear appropriate thermal protective	e clothing, when necessary.
neral hygiene siderations	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.	

3. Physical and chemical properties		
Appearance	Blood red liquid.	
Physical state	Liquid.	
Form	Liquid.	
Color	Blood red.	
Odor	Not available.	
Odor threshold	Not available.	
рН	7 - 7.5	
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 applicable.	
Upper/lower flammability or explosive limits		
Flammability limit - lower (%)	Not available.	

	Flammability limit - upper	Not available.
	(%)	
	Explosive limit - lower (%)	Not available.
	Explosive limit - upper (%)	Not available.
Vap	oor pressure	Not available.
Va	oor density	Not available.
Rel	ative density	Not available.
Sol	ubility(ies)	
	Solubility (water)	Not available.
	tition coefficient octanol/water)	Not available.
Aut	to-ignition temperature	Not available.
Dee	composition temperature	Not available.
Vis	cosity	Not available.
Oth	ner information	
	Density	10.00 lb/gal
	Explosive properties	Not explosive.
	Oxidizing properties	Not oxidizing.
	Specific gravity	1.2

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 reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	Irritating and/or toxic fumes and gases may be emitted upon the products decomposition.

11. Toxicological information

Information on likely routes of exposure

Inhalation	May cause irritation to the respiratory system. Prolonged inhalation may be harmful.
Skin contact	Causes severe skin burns.
Eye contact	Causes serious eye damage.
Ingestion	Causes digestive tract burns.
Symptoms related to the physical, chemical and toxicological characteristics	Burning pain and severe corrosive skin damage. Causes serious eye damage. Permanent eye damage including blindness could result. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

Information on toxicological effects

Acute toxicity

Components	Species	Test Results	
EDTA Acid (CAS 60-00-4)			
<u>Acute</u>			
Oral			
LD50	Rat	4500 mg/kg	
* Estimates for product may be based on additional component data not shown.			

Skin corrosion/irritation Causes severe skin burns and eve damage

Skin conosion/initation	Causes severe skin burns and eye damage.
Serious eye damage/eye irritation	Causes serious eye damage.

Respiratory or skin sensitizatio	n	
Respiratory sensitization	Not a respiratory sensitizer.	
Skin sensitization	This product is not expected to cause 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.	
IARC Monographs. Overall Evaluation of Carcinogenicity		
Not listed. OSHA Specifically Regulate Not regulated.	ed Substances (29 CFR 1910.1001-1050)	
5	ogram (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 an aspiration hazard.	
Chronic effects	Prolonged inhalation may be harmful.	

12. Ecological information

6		
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. Dispose of contents/container in accordance with local/regional/national/international regulations.	
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	Since emptied containers may retain product residue, follow label warnings, if applicable, even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.	

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
Annex II of MARPOL 73/78 and
the IBC CodeNot established.

15. Regulatory information

15. Regulatory information	1						
US federal regulations	All components are listed on or exempted from the U.S. EPA TSCA Inventory List. This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.						
TSCA Section 12(b) Export I	TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)						
Not regulated. CERCLA Hazardous Substa	nce List (40 CFR 302.4)						
Aqua Ammonia (CAS 133 EDTA Acid (CAS 60-00-4 SARA 304 Emergency releas)	Listed. Listed.					
• •	se notification						
Not regulated. OSHA Specifically Regulate	d Substances (29 CFR 191	10.1001-1050)					
Not regulated.							
Superfund Amendments and Re		(SARA)					
Hazard categories	Immediate Hazard - Yes Delayed Hazard - No Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No						
SARA 302 Extremely hazard Not listed.	lous substance						
SARA 311/312 Hazardous chemical	No						
SARA 313 (TRI reporting)							
Chemical name	(CAS number	% by wt.				
AMMONIA (INCLUDES ANHYDROUS AMMONIA ANB36-21-6 3 - < 5 AQUEOUS AMMONIA FROM WATER DISSOCIABLE AMMONIUM SALTS AND OTHER SOURCES; 10% OF TOTAL AQUEOUS AMMONIA IS REPORTABLE UNDER THIS LISTING)							
Other federal regulations							
Clean Air Act (CAA) Section	112 Hazardous Air Pollut	ants (HAPs) List					
Not regulated. Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)							
Not regulated.							
Safe Drinking Water Act (SDWA)	Not regulated.						
US state regulations US. California Proposition 65 California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.							
16. Other information, incl	uding date of prepara	ation or last revisio	on				
Issue date	07-18-2017						
Version #	01						
NFPA ratings	Health: 3 Flammability: 0 Instability: 0						

NFPA ratings

3 0

Disclaimer

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