## **Material Safety Data Sheet**

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910:1200. Standard must be consulted for specific requirements

## U.S. Department of Labor

Occupational Safety and Health Administration (Non-Mandatory Form)
Form Approved
OMB No. 1218-0072

IDENTITY (As Used on Label and List)  TRA-MIN RUMINANT <sup>TM</sup>		The information contained herein is based on data Considered accurate: however, no warranty either expressed or implied of any nature with respect to the product or the data is made.						
Section I								
Manufacturer's Name ANIMAL SCIENCE PRODUCTS	Emergency Telephone Number 1-800-424-9300 CHEMTREC							
Address (Number, Street, City, and ZIP Code) FM 1275 SOUTH, NACOGDOCHES, TX, 7596	Telephone Number for Information 1-800-657-2324 ANIMAL SCIENCE PRODUCTS							
P.O. DRAWER 631408		Date Prepared 6/26/96						
	Signature of Preparer (optional)							
Section II-Hazardous Ingredients/Identity Info	ormation							
Hazardous Components (Specific Chemical Identity; Common Name(s) OSHA PEL ACGIH TLV Other limits %optional) Recommended								
Calcium carbonate, ferrous sulfate, manganous oxide, zinc oxide, calcium iodate, cobalt carbonate and copper sulfate.								
Section III - Physical/Chemical Characteristics								
Boiling Point:	NA	Specific Gravity (H <sup>2</sup> O = 1) NA		NA				
Vapor Pressure (mm Hg.)	NA	Melting Point						
Vapor Density (AIR = 1)	NA	Evaporation Rate (Butyl Acetate = 1) NA						
Solubility in water: Some components may be water	soluble.							
Appearance and Odor: White, brown, red, and gray mixtures of minerals.								
Section IV - Fire and Explosion Hazard Data								
Flash Point (Method Used): Not combustible		Flammable Limits:	LEL NA	UEL	NA			
Extinguishing Media: Foam, co <sub>2</sub> , dry chemical or water.								
Special Fire Fighting Procedures: In the event of fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.								
Unusual Fire Fighting and Explosion Hazards: Not combustible								

Section V - Read	tivity Data									
Stability	Unstable	Conditions to Avoid: Extreme heat.			Extreme heat.					
	Stable	Stable under ordinary conditions								
Compatibility (Materials to Avoid): NA										
Hazardous Decomposition or Byproducts: May decompose if heated to produce irritating or toxic combustion products.										
Hazardous Polymerization	May Occur	Conditions to Avoid:								
	Will Not Occur	Will not occur								
Section VI - Health Hazard Data										
Route(s) of Entry:	Inhala	ation? Yes Skin?	Yes	Ingestion?	Yes	Eyes? Yes				
Health Hazards (Acute and Chronic): Cobalt, Copper, Zinc, and Selenium salts may have oral human lethal doses in the range of 50 to 500 mg/kg.										
Carcinogenicity: No NTP? No IARC Monographs? No OSHA Regulated?										
Signs of Symptoms of Exposure: Ingestion of large doses of mineral salts usually cause vomiting, but the acute effects are described as nausea, chills, and diarrhea. Eye or skin irritation may occur following ingredient contact.										
Medical Condition	ns Generally Aggra	vated by Exposure:								
Eye Contact: Flush eyes immediately with water for 15 minutes. Seek medical attention if irritation persist.  Ingestion: Induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Call a physician immediately.  Inhalation: Remove to fresh air and seek medical attention for any breathing difficulty.										
Section VII - Precautions for Safe Handling and Use  Steps to Be Taken in Case Material is Released or Spilled:  Ventilate area. Clean- up personnel require respiratory protection. Recover uncontaminated material for use.  Vacuum or sweep remaining material, keeping dust to a minimum.										
Waste Disposal N	/lethod:	I in a RCRA-approved v		y.						
	e Taken in Handling ers from damage a	g and Storing: nd keep closed when n	ot in use.							
Other Precautions: Observe good personal hygiene. Wash after handling.										
Section VIII - Control Measures										
Respiratory Protection (Specify Type):										
Ventilation	Local Exhaust: R	Recommended		Special:						
	Mechanical (Ger	neral):		Other:						
Protective Gloves: Yes Eye Protection: Yes										
Other Clothing or Use other prote		hen necessary in order	to avoid pr	olonged expos	sure to ski	in.				
Work/Hygienic Practices: Observe good personal hygiene. Wash after handling.										