



Bulldog Turf 16-32-16 Hydroseed Water Soluble Fertilizer
MATERIAL SAFETY DATA SHEET

SECTION I

IDENTIFICATION

Chemical Name:	Soluble Fertilizer
Product Use:	Dry fertilizer for mixing with water for foliar and soil applications.
HMIS Index:	Health: 1 Flammability: 0 Reactivity: 2 Personal Protection: N/A
Chemical Family:	Inorganic Salts
Trade Name:	Bulldog Turf 16-32-16 Hydroseed Water Soluble Fertilizer
Description:	16 % nitrogen (N), 32 % phosphorus (P ₂ O ₅), 16 % potash (K ₂ O), plus micronutrients. Professional fertilizer.

SECTION II

MANUFACTURER INFORMATION

Manufacturer:	SQM North America (Chilean Nitrate)
Address:	3101 Towercreek Parkway, Suite 450, Atlanta, GA 30339
Emergency Telephone Number:	Chemtrec: 1-800-424-9300; SQM North America: 1-800-368-9600
Telephone Number for Information:	1-800-368-9600, Fax: (770) 916-9401
Date Prepared:	May 1, 00

SECTION III

INGREDIENTS

	CAS Number	OSHA PEL	ACGIH TLV	Other Limits
Potassium Nitrate	7757-79-1	None	None	-----
Urea	0057-13-6	None	None	-----
Monoammonium Phosphate	7722-76-1	None	None	-----
Monopotassium Phosphate	7778-77-0	None	None	-----
Boric Acid	10043-35-3	None	None	-----
Zinc EDTA	14025-21-9	None	None	-----
Manganese EDTA	15375-84-5	None	None	-----
Copper EDTA	14025-15-1	None	None	-----
Iron EDTA	15708-41-5	None	None	-----
Iron EDDHA	16455-61-1	None	None	-----
Sodium Molybdate	7631-95-1	5 mg/m3	5 mg/m3	-----

SECTION IV

PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:	N/A
Vapor Pressure:	N/A
Vapor Density:	N/A
Solubility in Water:	30 - 50 g/100 ml at 20 C.
Appearance and Odor:	White to bluish crystalline powder
Specific Gravity:	1.5 - 2.1
Melting Point:	In excess of 200 C.
Evaporation Rate:	N/A

SECTION V

FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method used)	Flammable Limits	OSHA Classification	LEL	UEL
Not Applicable	Not Applicable	Not regulated	N/A	N/A
Extinguishing Media: Water. Use Media to Control Surrounding Fire				
Special Fire Fighting Procedures: Wear positive pressure self contained breathing apparatus, and full protective clothing				
Unusual Fire and Explosion Hazards: Avoid fumes from fire. Evacuate nonessential personnel from area				

SECTION VI

REACTIVITY DATA

Stability:	Normal
Hazardous decomposition or byproducts:	Nitrous Oxides, Ammonia
Hazardous Polymerization:	Will not occur
Conditions to avoid:	Temperatures over 200 C may lead to decomposition
Materials to avoid:	These materials may be corrosive

SECTION VII**HEALTH HAZARD DATA**

Health Hazards Acute Exposure: **Toxic by ingestion. Seek medical attention immediately. Can cause irritation of skin, eyes, and respiratory system**

Health Hazards Chronic Exposure: **Can cause damage to respiratory system, blood system, reproductive system, and urinary system.**

Carcinogenicity: **No information available**

EMERGENCY FIRST AID PROCEDURES

SKIN: Flush with water. If irritation develops, call physician.
EYES: Flush with water for 15 minutes. Seek medical attention.
INGESTION: Drink large amounts of water, seek medical attention immediately.
INHALATION: Remove to fresh air. Seek medical attention immediately.

TOXICOLOGY (Product)

Acute Oral LD50:	N/A	Carcinogenic:	N/A
Acute Dermal LD50:	N/A	Mutagenic:	N/A
Acute Inhalation:	N/A	Eye Irritation:	May be an irritant
		Primary Skin Irritation:	May be an irritant

**PRECAUTIONS FOR
SAFE HANDLING AND
USE****SECTION VIII**

Steps to be taken if material is spilled: Sweep or shovel up spilled material. Prevent large quantities from entering drinking water supplies or streams.

Waste disposal method: Dispose of contaminated product, empty containers and materials used in approved landfill disposal facility in accordance with federal, state, and local regulations. Apply as fertilizer to field.

Precautions for handling/storing: Do not store near combustible materials. Avoid contact with eyes and skin. Wash thoroughly after handling. Keep container closed and away from heat, sparks, and flame. **KEEP OUT OF REACH OF CHILDREN.** Product contains boron and molybdenum. Certain crops and livestock are sensitive to these elements.

SECTION IX**CONTROL MEASURES**

Respiratory Protection:	NIOSH/MSHA - approved respirator per 29 CFR 1910.134
Ventilation:	Mechanical (General, adequate to remove dust from air)
Protective Gloves:	Heavy duty gloves
Eye Protection:	Goggles
Other Protective Clothing:	Long-sleeved shirts
Work/Hygienic Practices:	Follow recommendations in Section VIII. Wash hands and face before eating, drinking, or smoking.

Material contained herein complies with OSHA's hazard communication standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

The information contained herein is to the best knowledge and belief, accurate. However, Bulldog Water Soluble Fertilizer is sold without representations or warranties, express or implied, of fitness for use or purpose or of merchantability beyond the description of said material on the face hereof, and is sold on the condition that the seller shall not be liable for accident, injury or damage occasioned during or resulting from the transportation, handling, storage, sale or use of the material.

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