



Bulldog 15-0-40 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 15-0-40 Water Soluble Fertilizer
Description:	15 % nitrogen (N), 0 % phosphorus (P ₂ O ₅), 40 % potash (K ₂ O), plus micronutrients. Professional fertilizer.

SECTION II

MANUFACTURER INFORMATION

Manufacturer:	SQM North America
Address:	2727 Paces Ferry Road, Building Two, Suite 1425, Atlanta, GA 30339
Emergency Telephone Number:	Chemtrec: 1-800-424-9300; SQM North America (800) 667-8528
Telephone Number for Information:	(800) 667-8528, Fax:(770) 234-6872
Date Prepared:	January 11, 2010

SECTION III

INGREDIENTS

	CAS Number	OSHA PEL	ACGIH TLV	Other Limits
Potassium Nitrate	7757-79-1	None	None	-----
Urea	0057-13-6	None	None	-----
Boric Acid	10043-35-3	None	None	-----
Ammonium Sulfate	7783-20-2	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	None	None	-----

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

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

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
Exposure Limits	None. Recommended for generic dusts: 5 mg/m ³
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.

SECTION X**STABILITY AND REACTIVITY**

Stability	Stable under normal storage and temperature conditions.
Conditions to avoid	Keep away from flammable, combustible and reducing substances.
Hazardous	Heavy duty gloves
Decomposition Products	Nitrous oxides, potassium nitrite and potassium oxide by thermal decomposition.

SECTION XI**TOXICOLOGICAL INFORMATION**

Acute Data	no data available
Inhalation	no data available
Short-term Effects	Inhalation may cause irritation of the respiratory tract. Can cause skin and eye irritation. Cyanosis due to absorption of big quantities into the body and occurrence of methaemoglobinemia.
Chronic Effects	no data available

SECTION XII**ECOLOGICAL INFORMATION**

General	Do not discharge into drains and water or public depositories.
Environmental Fate	Dissociates into potassium and nitrate ions. Nitrates may be absorbed by plants and converted into organic nitrogen, whereas potassium binds to clay particles in the soil.

SECTION XIII**DISPOSAL CONSIDERATIONS**

Residues	Licensed professional waste disposal service is required. Disposal of waste according to all federal, state and local regulations.
Empty Packaging	Empty containers may be reused after appropriate cleansing. Packaging that can not be cleaned should be disposed in agreement with the regional waste disposal company.

SECTION XIV**TRANSPORT INFORMATION**

Hazardous for transport	Nitrates inorganic, IMCO 5.1, UN 1477, Packing Group II, Oxidizer
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SECTION XV**REGULATORY INFORMATION**

Indication of Danger	Oxidizer
Risk statements	None
Safety Statements	Keep away from combustible material Avoid contact with skin and eyes
SARA	Not listed
TSCA	Not listed
California Prop.65	Not listed

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

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