

## BULLDOG 21-07-07 STABLE N

Product Code: Date of issue:

**PRODUCT NAME** 

NCT.2210707SN\_114\_01\_US May 2016

1.	PRODUCT AND COMPANY IDENTIFICAT	ION	
L	Product identifier	Bulldog 21-07-07 Stable N	
	Recommended uses:		
	Fertilizer end-use, preparation of fertilizers mixtures. Dry fertilizer for mixing with water for foliar and soil applications.		
	Restrictions on uses:		
	None		
	Manufacturer	SQM North America	
		2727 Paces Ferry Rd, Building Two, Suite 1425	
		Atlanta, GA 30339	
	Company Telephone/Fax	(770) 916 9400 / (770) 916 9404	
	Emergency Telephone Number	(800) 424 9300 (CHEMTREC)	
2.	HAZARDS IDENTIFICATION		
	Classification of the mixture		
	Classification of the chemical in accorda	nce with 29CFR §1910.1200	
	Not classified as hazardou	JS.	
	Label elements		
	Hazard pictograms	None applicable	
	Signal word	None applicable	
	Hazard Statements	None applicable	
	Precautionary Statements	None applicable	
	Other hazards		
	None		
3.	COMPOSITION/INFORMATION ON INGREDIENTS		
	This product is to be considered as a mix	xture/preparation	
	Substance name	CAS NO EC NO Concentration	
	No substance meeting the classification §1910.1200/2012.	on criteria for health is present over its cut-off value in accordance with OSHA, 29CFI	

Contains some or all of the following: phosphate salts, sulfate salts, potassium salts, secondary nutrients and micronutrients.

#### **FIRST AID MEASURES** 4. **Description of first aid measures General information** In case of persisting adverse effects consult a physician. Never give anything by mouth to an unconscious person or a person with cramps. In case of inhalation Remove to fresh air and keep at rest in a position comfortable for breathing. Get medical attention for any breathing difficulty. In case of skin contact Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention. In case of eye contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. In case of ingestion Rinse mouth and drink plenty of water. Call a POISON CENTER or doctor/physician if you feel unwell. Most important symptoms and effects, both acute and delayed The following symptoms may occur: In case of inhalation Irritation to respiratory tract Delayed lung effects after short term exposure to thermal degradation products



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In case of skin contact	May cause redness or irritation			
In case of eye contact	May cause redness or irritation			
In case of ingestion	Ingestion of large amounts may cause:	gastrointestinal disturbances		
Indication of any immediate medical attention and special treatment needed				
Treat symptomatically.				

### 5. FIRE FIGHTING MEASURES

#### Extinguishing media

Suitable extinguishing media: Unsuitable material: Use any suitable mean for extinguishing surrounding fire.

None, but attention should be paid to compatibility with chemicals surrounding.

#### Specific hazards arising from the chemical

Thermal decomposition can lead to the escape of toxic/corrosive gases and vapours.

Thermal decomposition products: Nitrous oxides (NOx), nitrites, phosphorus oxides, ammonia and metallic oxides.

#### Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and a chemical protective clothing.

#### 6. ACCIDENTAL RELEASE MEASURES

#### **Personal precautions**

Provide adequate ventilation. Wear personal protection equipment (Section 8).

#### **Environmental precautions**

Do not allow to enter into surface water or drains. Ensure waste is collected and contained.

#### Methods and material for containment and cleaning up

Take up mechanically, placing in appropriate containers for disposal or recovery.

Unsuitable material for containment/taking up: None specified

#### **Other information**

None

#### 7. HANDLING AND STORAGE

#### **Precautions for Safe Handling**

Avoid generation of dust. Provide adequate ventilation. Wear personal protective equipment, when required. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product. Keep away from flammable, combustible, strong acids, and reducing substances.

#### Conditions for safe storage, including any incompatibilities

Keep/store only in original container. Store in a well-ventilated place. Keep container tightly closed. Do not store together with: Flammable substance, reducing agents, strong acids, empty wood pallets.

Perchlorate containing product - Special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate and Section 15 for more information regarding California State regulations.

Exposure Guidelines			
Occupational exposure limits			
OSHA PEL		Not Established	
STE	L/ceiling	Not Established	
ACGIH (2012 TLVs	<sup>®</sup> and BEIs <sup>®</sup> )		
TW	4	Not Established	
STE	L/ceiling	Not Established	
Derived No-Effect Level (DNEL)	suggested by the mar	ufacturer	
Workers (industrial/professional):			
DNEL Human, dermal, long term	(repeated):	20 mg/kg/day (systemic)	
DNEL Human, inhalation, long te	rm (repeated):	30 mg/m <sup>3</sup> (systemic)	



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Engineering controls Use exhaust ventilation to keep airbo Personal Protective Equipment	rne concentrations below exposure limits.			
Eye/face protection Chemical goggles, recommended.				
Skin Protection Nitrile rubber gloves, recommended.				
Respiratory Protection Wear respiratory protection, where airborne concentrations are expected to exposure limits				
General Hygiene Considerations				
Avoid contact with eyes and skin. Wash hands thoroughly after handling. Do not eat, drink or smoke when using this product.				

PHYSICAL AND CHEMICAL PROPERTIES				
Information on basic physical and chemical properties				
Appearance	Solid, crystalline powder			
Colour	White			
Odour	Odourless			
Odour Threshold	No applicable			
pH value	No data available			
Melting point / freezing range	No data available			
Boiling temperature / boiling range	Not applicable			
Flash point	Not applicable			
Vapourisation rate / Evaporation rate	No data available			
Flammable solids	Not flammable			
Explosion limits (LEL, UEL)	Not applicable			
Vapour pressure	Not applicable			
Vapour density	Not applicable			
Relative Density	No data available			
Solubility	> 100 g/L at 20°C/68°F (water)			
Partition coefficient n-octanol /water	Not applicable			
Auto Ignition temperature (AIT)	Not applicable			
Decomposition temperature	No data available			
Viscosity	Not applicable			
Explosive properties	Not explosive			
Oxidizing properties	Not oxidizer			
Other information				
None				

#### 10. STABILITY AND REACTIVITY

#### Reactivity

No hazardous reaction when handled and stored according to provisions.

#### **Chemical stability**

Stable under normal storage and temperature conditions.

#### Possibility of hazardous reactions

None identified

## **Conditions to avoid**

Keep away from flammable, combustible, strong acids, and reducing materials.

#### Incompatible materials

Flammable, combustible, strong acids, and reducing substances under specific conditions.

## Hazardous decomposition products

Thermal decomposition products: Nitrous oxides (NOx), nitrites, phosphorus oxides, ammonia and metallic oxides.



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#### **TOXICOLOGICAL INFORMATION** 11.

The following information mostly refers to the major component of the product.

#### Likely routes of exposure (inhalation, ingestion, skin and eye contact)

Eye contact, skin contact and inhalation. Exposure by ingestion is not expected to occur through normal industrial or agricultural use.

#### Symptoms related to the physical, chemical and toxicological characteristics

May be irritant to the respiratory tract. May cause redness or irritation to the skin and eyes. Ingestion of large amounts may cause gastrointestinal disturbances. May cause delayed lung effects after short term exposure to thermal degradation products.

#### Information on toxicological effects from short and long term exposure

There is no data for the mixture itself. . ..

Acute toxicity		
Acute oral toxicity	LD50:	
Acute Toxicity Estimate for the mixture	>2000 mg/kg bw	(additivity formula)
Acute dermal toxicity	LD50:	
Acute Toxicity Estimate for the mixture	>2000 mg/kg pc	(additivity formula)
Acute inhalation toxicity	LC50:	
Acute Toxicity Estimate for the mixture	Does not contain acute	ely toxic ingredients/impurities.
Assessment / classification:	ication: Based on available data for the ingredients of the mixtur	
	are not met.	

#### Irritant and corrosive effects

There is no data for the mixture itself. Irritation to the skin The product does not contain relevant ingredients classified as corrosive or irritant to the skin in accordance with OSHA, 29 CFR 1910.1200. Irritation to eyes The product does not contain relevant ingredients classified as serious eye damage / eye irritant in accordance with OSHA, 29 CFR 1910.1200. Assessment / classification: Based on available data for the ingredients of the mixture, the classification criteria are not met.

#### **Respiratory or skin sensitisation**

There is no data for the mixture itself. The product does not contain ingredients classified as a respiratory or skin sensitizer present at or above their cut-off value in accordance with OSHA, 29 CFR 1910.1200.

Assessment / classification: Based on available data for the ingredients of the mixture, the classification criteria are not met.

#### **Genetic effects**

The product does not contain ingredients classified as germ cell mutagens present at or above their cut-off value in accordance with OSHA, 29 CFR 1910.1200.

Assessment / classification:

Based on available data for the ingredients of the mixture, the classification criteria are not met.

#### **Reproductive toxicity**

The product does not contain ingredients classified as a category 1 or category 2 reproductive toxicant or for effects on or via lactation present at or above their cut-off value in accordance with OSHA, 29 CFR 1910.1200. Assessment / classification:

Based on available data for the ingredients of the mixture, the classification criteria are not met.

#### Specific target organ toxicity (single exposure)

There is no data for the mixture itself.

The product does not contain relevant ingredients classified as Target Organ Toxicant in accordance with OSHA, 29 CFR 1910.1200. Assessment / classification: Based on available data for the ingredients of the mixture, the classification criteria are not met.

#### Specific target organ toxicity (repeated exposure)

There is no data for the mixture itself.

The product does not contain relevant ingredients classified as Target Organ Toxicant in accordance with OSHA, 29 CFR 1910.1200. Assessment / classification: Based on available data for the ingredients of the mixture, the classification criteria

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ä	are not met.
Aspiration hazard	
Physicochemical data and toxicological informa	tion does not indicate an aspiration hazard.
Assessment / classification:	Based on available data for the ingredients of the mixture, the classification criteria
	are not met.
Carcinogenicity	
International Agency for Research on Cancer (IA	NRC) No component of this product present at levels ≥0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
National Toxicology Program (NTP)	No component of this product present at levels ≥0.1% is identified as known or anticipated carcinogen by NTP.
29 CFR part 1910, subpart Z	No component of this product present at levels ≥0.1% is identified as carcinogen or potencial carcinogen by OSHA.
California Proposition 65	No component of this product present at levels ≥0.1% is identified as carcinogen by California Prop.65.
WHO (2003) Nitrate in drinking water	No association between nitrate exposure in humans and the risk of cancer
Assessment / classification:	Based on available data, the classification criteria are not met.
Other Toxicological Information	

#### Other Toxicological Information

This product contains trace amounts of naturally-occurring perchlorate and iodate. Like other goitrogenic substances, perchlorate may affect iodine uptake by thyroid under specific conditions.

#### 12. **ECOLOGICAL INFORMATION**

There is no data for the mixture itself. The following information mostly refers to the major component of the product. Ecotoxicity

#### **Aquatic Toxicity**

Toxicity estimate for the mixture (summation method)

,		,	
	96-h L(E)C50	>100 mg/L	Fish
	24-h E(E)C50	>100 mg/L	Daphnia magna (fresh water flea).
	72-h E(E)C50	> 100 mg/L	Algae
Assessment / classification		Based on available of	data for the ingredients of the mixture, the classification criteria
		are not met.	

#### Persistence and degradability

The product contains mainly inorganic nitrate and phosphate salts. In aqueous solutions, these salts dissociate into their respective ions. Phosphate ions are finally incorporated into the Phosphorus cycle. Under anoxic conditions, denitrification occurs and nitrate is ultimately converted into molecular nitrogen as part of the Nitrogen cycle.

#### **Bioaccumulative potential**

Low potential for bioaccumulation based on physicochemical properties of main components.

#### Mobility in soil

The components of this mixture have a low potential for adsorption. Portion not taken up by plants, can leach to groundwater.

#### Other adverse effects

Excess nitrate leaching may enrich waters leading to eutrophication.

#### **DISPOSAL CONSIDERATIONS** 13.

Disposal should be in accordance with applicable federal and state laws.

It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal method in compliance with applicable regulations.

This product is not listed as dangerous waste in the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

Perchlorate containing product - Special handling may apply. See www.dtsc.ca.gov/hazardouswaste/perchlorate and Section 15 for more information regarding California State regulations.



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14.	TRANSPORTATION INFORMATION		
	US DOT (49CFR part 172)		
	UN-No.	Non dangerous good	
	UN Proper Shipping Name	Not applicable	
	Hazard class	Not applicable	
	Packing group	Not applicable	
	Hazard label(s)	Not applicable	
	Special marking	No	
	Special Provision	No	
	International Maritime Organization (IMDG	Code)	
	UN-No.	Non dangerous good	
	UN Proper Shipping Name	Not applicable	
	Hazard class	Not applicable	
	Packing group	Not applicable	
	Marine pollutant	No	
	Hazard label(s)	Not applicable	
	Special marking	No	
		AO) and International Air Transport Association (IATA)	
	UN-No.	Non dangerous good	
	UN Proper Shipping Name	Not applicable	
	Hazard class	Not applicable	
	Packing group	Not applicable	
	Hazard label	Not applicable	
	Special marking	No	
	Special handling procedure		
	None		
	Transport in bulk according to Annex II of M	ARPOL 73/78 and the IBC Code	
	Not applicable		
	Other special precautions		
	None		
15.	REGULATORY INFORMATION		
	US Federal		
	SARA Title III Rules	_	
	Section 311/312 Hazard Classe		
	Acute Health Hazard	No	
	Chronic Health Hazard	No	
	Fire Hazard	No	
	Release of Pressure	No	
	Reactive Hazard	No	
	Section 313 Toxic Chemicals		
	N511 Nitrate compounds (water dissociable; reportable only when in aqueous solution) Section 302 Extremely Hazardous Substances (EHS)/CERCLA Hazardous Substances None ingredient is listed.		
	NFPA 704/2012: National Fire Protection Asso	ociation	
	Health 1		
	Fire 0		
	Reactivity 0		
	Special None		
	US State Regulations		
	California Proposition 65	None ingredient is listed.	
	California Code of Regulations Title 22 (Healt Code), Chapter 33	h & Safety See http://www.dtsc.ca.gov/hazardouswaste/perchlorate/	



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#### Canada

This product has been classified according to the hazard criteria of the 2015 Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

#### Chemical Inventories

United States TSCA Canada DSL European Union (EINECS) Japan (METI)

All ingredients are listed All ingredients are listed All ingredients are listed All ingredients are listed

## 16. OTHER INFORMATION

This SDS complies with 29 CFR part 1910 subpart Z (2012), Hazardous Products Regulations (HPR, 2015) and ANSI Standard Z400.1-2004

Data source	e REACH Registration Dossiers for major components		
Prepared by Regulatory Affairs Department, SQM			
E-mail product_safety@sqm.com			
	spn-northamerica@sqm.com		
Date of issue:	May 2016	Supersedes	

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#### Indication of changes

Version 1 (May 2016) New document.