



## SAFETY DATA SHEET

**PRODUCT NAME**                    **ULTRASOL 21-7-7 HIGH ACID PLUS**

Product Code:                    NC.22177\_114\_03.1\_USA

Date of issue:                    September 2019

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**                    Ultrasol 21-7-7 High Acid Plus

**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 accordance with 29CFR §1910.1200  
Not classified as hazardous.

**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 mixture/preparation

Substance name	CAS No	EC No	Concentration
No substance meeting the classification criteria for health is present over its cut-off value in accordance with OSHA, 29CFR §1910.1200/2012.			

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

### 4. FIRST AID MEASURES

**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:





## SAFETY DATA SHEET

**PRODUCT NAME**                    **ULTRASOL 21-7-7 HIGH ACID PLUS**  
Product Code:                        NC.22177\_114\_03.1\_USA  
Date of issue:                         September 2019

Use exhaust ventilation to keep airborne concentrations below exposure limits.

### Personal Protective Equipment

Eye/face protection	Chemical goggles, recommended.
Skin Protection	Nitrile rubber gloves, recommended.
Respiratory Protection	Wear respiratory protection, where airborne concentrations are expected to exceed 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Solid, crystalline powder
Colour	Pale Blue
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. Keep away from empty wood pallets.

### Incompatible materials

Flammable, combustible, strong acids and reducing substances under specific conditions. These incompatible materials shall not include approved packaging materials, pallets, or other dunnage (NFPA 400/2016, Hazardous Materials Code, item 15.3.5.2.1.1).

### Hazardous decomposition products

Thermal decomposition products: Nitrous oxides (NO<sub>x</sub>), nitrites, phosphorus oxides, ammonia and metallic oxides.



## SAFETY DATA SHEET

**PRODUCT NAME**                    **ULTRASOL 21-7-7 HIGH ACID PLUS**  
Product Code:                    NC.22177\_114\_03.1\_USA  
Date of issue:                    September 2019

### 11. TOXICOLOGICAL INFORMATION

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.



## SAFETY DATA SHEET

### PRODUCT NAME

**ULTRASOL 21-7-7 HIGH ACID PLUS**

Product Code:

NC.22177\_114\_03.1\_USA

Date of issue:

September 2019

#### 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 acutely toxic ingredients/impurities.

Assessment / classification:

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

##### Aspiration hazard

Physicochemical data and toxicological information does not indicate an aspiration hazard.



## SAFETY DATA SHEET

### PRODUCT NAME

**ULTRASOL 21-7-7 HIGH ACID PLUS**

Product Code:

NC.22177\_114\_03.1\_USA

Date of issue:

September 2019

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 (IARC)

No component of this product present at levels  $\geq 0.1\%$  is identified as probable, possible or confirmed human carcinogen by IARC.

National Toxicology Program (NTP)

No component of this product present at levels  $\geq 0.1\%$  is identified as known or anticipated carcinogen by NTP.

29 CFR part 1910, subpart Z

No component of this product present at levels  $\geq 0.1\%$  is identified as carcinogen or potential carcinogen by OSHA.

California Proposition 65

No component of this product present at levels  $\geq 0.1\%$  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

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 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.

### 13. DISPOSAL CONSIDERATIONS

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](http://www.dtsc.ca.gov/hazardouswaste/perchlorate) and Section 15 for more information regarding California State regulations.

### 14. TRANSPORTATION INFORMATION

#### US DOT (49CFR part 172)

UN-No.

Non dangerous good



# SAFETY DATA SHEET

**PRODUCT NAME**                      **ULTRASOL 21-7-7 HIGH ACID PLUS**  
 Product Code:                              NC.22177\_114\_03.1\_USA  
 Date of issue:                                September 2019

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

**International Civil Aviation Organization (ICAO) 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 MARPOL 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 Classes

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 704/2017: National Fire Protection Association

Health	0
Fire	0
Reactivity	0
Special	None

**US State Regulations**

California Proposition 65

None ingredient is listed.

California Code of Regulations Title 22 (Health & Safety Code), Chapter 33

See <http://www.dtsc.ca.gov/hazardouswaste/perchlorate/>

**Canada**



## SAFETY DATA SHEET

**PRODUCT NAME**                      **ULTRASOL 21-7-7 HIGH ACID PLUS**

Product Code:                              NC.22177\_114\_03.1\_USA

Date of issue:                                September 2019

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	All ingredients are listed
Canada DSL	All ingredients are listed
European Union (EINECS)	All ingredients are listed
Japan (METI)	All ingredients are listed

### 16. OTHER INFORMATION

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

<b>Data source</b>	REACH Registration Dossiers for major components
<b>Prepared by</b>	Regulatory Affairs Department, SQM
<b>E-mail</b>	product_safety@sqm.com spn-northamerica@sqm.com

<b>Date of issue:</b>	September 2019	<b>Supersedes</b>	April 2016
-----------------------	----------------	-------------------	------------

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall SQM be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if SQM has been advised of the possibility of such damages.

### Indication of changes

Version 03.1	(September 2019) DNEL removed (Section 8) Incompatible materials information updated (section 10) NFPA 704 rule updated (section 15)
Version 03	(April 2016) All sections were revised and minor changes were made in section 4, 7, 8, 9, 16. Composition of the formula has been changed: boric acid was reduced to less than 0.1%. Section 3 was modified in compliance with OSHA HazCom 2012. Product code (docuemnt code) was changed All section were revised and updated in accordance with the new hazard classification DNEL and toxicity values were adjusted referring to the mixture (section 8, 11, 12). Conditions to avoid and incompatible materials were updated (section 10). Regulatory information was updated (Section 15). Minor editorial changes.
Version 02	(August 2013) All sections were reviewed and modified to comply with 29CFR part 1910 subpart Z (2012).
Version 01	(September 2009) New document