

**PRODUCT NAME** 

PRIMERAONE 20-20-20 NUTRA-LOCK ENHANCED N

Product Code: NL.2202020TURFLOCK\_114\_02\_US

Date of issue: May 2016

# 1. PRODUCT AND COMPANY IDENTIFICATION

**Product identifier** PrimeraOne 20-20-20 Nutra-Lock Enhanced 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 accordance with 29CFR §1910.1200

Not classified as hazardous.

**Label elements** 

Hazard pictogramsNone applicableSignal wordNone applicableHazard StatementsNone applicablePrecautionary StatementsNone 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:

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

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

# 5. FIRE FIGHTING MEASURES

#### **Extinguishing media**

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

Unsuitable material: 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.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# **Exposure Guidelines**

### Occupational exposure limits

OSHA PEL Not Established
STEL/ceiling Not Established

ACGIH (2012 TLVs® and BEIs®)

TWA Not Established STEL/ceiling Not Established

# Derived No-Effect Level (DNEL) suggested by the manufacturer

Norkers (industrial/professional):	
DNEL Human, dermal, long term (repeated):	20 mg/kg/day (systemic)
DNEL Human, inhalation, long term (repeated):	30 mg/m <sup>3</sup> (systemic)

Derived No-Effect Level (DNEL) is the level of exposure to the substance above which humans should not be exposed.



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# **Engineering controls**

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 White Odour **Odourless** Odour Threshold No applicable No data available pH value Melting point / freezing range No data available Boiling temperature / boiling range Not applicable Not applicable Flash point Vapourisation rate / Evaporation rate No data available Flammable solids Not flammable Explosion limits (LEL, UEL) Not applicable Not applicable Vapour pressure Vapour density Not applicable Relative Density No data available

Solubility  $> 100 \text{ g/L at } 20^{\circ}\text{C}/68^{\circ}\text{F} \text{ (water)}$ 

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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## 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.

#### 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

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are not met.

#### Aspiration hazard

Physicochemical data and toxicological information 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 (IARC) 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

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.

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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

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 704/2012: National Fire Protection Association

Health 1
Fire 0
Reactivity 0
Special None

**US State Regulations** 

California Proposition 65 None ingredient is listed.

California Code of Regulations Title 22 (Health & Safety See http://www.dtsc.ca.gov/hazardouswaste/perchlorate/

Code), Chapter 33



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

**Data source** REACH Registration Dossiers for major components

**Prepared by** Regulatory Affairs Department, SQM

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Date of issue:May 2016SupersedesFebruary 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 02 (May 2016) Hazard classification has been changed in accordance with the composition (section 2).

Composition of the formula has been amended: the boric acid content is lower than 0.1%. Section 3 information was modified in compliance with OSHA HazCom 2012.

Product code (document code) was changed.

All sections were revised and updated in accordance with the new hazard classification.

DNEL and toxicity values were adjusted referring to the mixture (section 8, 11).

Regulatory information was updated (Section 15).

Version 1.1 (February 2016) All sections were revised and minor changes were made in section 2, 4, 7, 9, 10).

Identification of ingredient classified as health hazards (section 3)

DNEL and toxicity values were adjusted referring to the mixture (section 8, 11, 12)

Regulatory information was updated (Section 15)

Version 1 (March 2014) New document.