

Safety Data Sheet according to OSHA-GHS (29 CFR part 1910.1200 HCS 2012)

**1. PRODUCT AND COMPANY IDENTIFICATION****Product Name:** 20-10-20**Date of issue:** March 2015

**Product identifier:** 20-10-20 Soluble Fertilizer  
**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:** Southern Agricultural Insecticides, Inc.  
P.O. Box 218  
Palmetto, FL 34220  
**Company Telephone/Fax:** (941) 722-3285/(941) 723-2974  
**Emergency Telephone Number:** (800) 424-9300 (CHEMTREC)

**2. HAZARDS IDENTIFICATION****Classification of the mixture**

Classification of the chemical in accordance with 29CFR §1910.1200

Hazard classes and Hazard categories

Hazard statements

Category 1B

Reproductive Toxicity

Oxidizing solid, Cat. 3

May intensify fire; Contains Potassium Nitrate, an oxidizer

Eye irritant Cat. 2

Causes serious eye irritation

**Label elements****Hazard pictograms****Signal word**

Warning

**Hazard Statements**

May intensify fire; Contains Potassium Nitrate, an oxidizer

Causes serious eye irritation

Suspected of damaging fertility or the unborn child

**Precautionary Statements**

Keep away from flammable / combustible / reducing materials.

Wear protective gloves / protective clothing / eye protection. Wash hands and face thoroughly after handling.

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

In case of fire: use any suitable mean for extinguishing surrounding fire. Spray water for small fires. For large fires flood with abundant water.

**IF IN EYES:** 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.

IF exposed or concerned: Get medical advice/attention.

Store locked up

Dispose of contents/container according to local/state/federal regulations.

**Other hazards:** None**Classification of the relevant ingredients of the mixture in accordance with 29CFR §1910.1200**

Potassium nitrate Oxidizing solid, Cat. 3

Ammonium nitrate Oxidizing solid, cat. 3; Eye irrit. cat. 2

Sodium borate Category 1B May disrupt hormones and harm the male reproductive system.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is to be considered as a mixture/preparation

Substance name	CAS No	EC No	Concentration
Potassium nitrate	7757-79-1	231-818-8	30 - 60%
Ammonium nitrate	6484-52-2	229-347-8	20 - 50%
Sodium Borate	12280-03-4		<1%

### 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. Do not induce vomiting. 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
In case of skin contact	May cause redness or irritation
In case of eye contact	Causes serious eye 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: Use any suitable mean for extinguishing surrounding fire. Spray water for small fires. For large fires flood with abundant water.

Unsuitable material: None, but attention should be paid to compatibility with surrounding chemicals

#### Specific hazards arising from the chemical

Oxidizer. Contact with combustible materials will not cause spontaneous ignition, however, this product will enhance an existing fire.

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

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

#### Protective equipment and precautions for firefighters

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (self contained breathing apparatus (SCBA)).

### 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.

Assessment / classification: Based on available data, the classification criteria are not met

### **Carcinogenicity**

International Agency for Research on Cancer (IARC)  
≥0.1 is identified as probable, possible or

No component of this product present at levels

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 potential  
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 is 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**

Potassium nitrate

96-h LC50	1378 mg/L	Poecilia reticulata (freshwater fish)
24-h EC50	490 mg/L	Daphnia magna (fresh water flea).
10 d EC50	> 1700 mg/L	Several algae species

Ammonium nitrate

48-h LC50	447 mg/L	Fish (Cyprinus carpio)
24-h EC50	490 mg/L	Daphnia magna (fresh water flea) (read across potassium nitrate).
10 d EC50	> 1700 mg/L	Several algae species (read across potassium nitrate)

Sodium Borate

96-h LC50	Not available
48-h EC50	Not available
72-h EC50	Not available

Assessment / classification: Based on available data, the classification criteria is 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 ground-water.

### **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. Product should, if possible, be used for an appropriate application.

Waste containing nitrates that exhibit the characteristic of ignitability has the EPA Hazardous Waste Number of D001 according to the Resource Conservation and Recovery Act (RCRA) 40 CFR 261.

## 14. TRANSPORTATION INFORMATION

### US DOT (49CFR part 172)

UN-No.	1479
UN Proper Shipping Name	(Potassium Nitrate/Ammonium Nitrate) NOS
Hazard class	5.1
Packing group	III
Hazard label(s)	5.1 (oxidizer)
Special marking	No
Special Provision	IB8; IP3; T1; TP33

## 15. REGULATORY INFORMATION

### US Federal

#### SARA Title III Rules

##### Section 311/312 Hazard Classes

Acute Health Hazard	Yes (Eye irritation)
Chronic Health Hazard	Yes (Toxic to reproduction)
Fire Hazard	Yes (Oxidizer)
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	OX

### US State Regulations

California Proposition 65 No ingredient is listed.

California Code of Regulations Title 22 (Health & Safety Code) See <http://www.dtsc.ca.gov/hazardouswaste/perchlorate/>  
Chapter 33

### 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) and ANSI Standard Z400.1-2004

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 Southern Agricultural Insecticides, Inc. 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 Southern Agricultural Insecticides, Inc. has been advised of the possibility of such damages.