

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 08/23/2019 Version: 1.0

SECTION 1: Identificat	on	
1.1. Identification		
Product form	: Mixture	
Product name	: SoluClear 11-44-13 Low pH	
1.2. Relevant identified	uses of the substance or mixture and uses advised against	
Use of the substance/mixture	<ul> <li>Fertilizer end-use, preparation of fertilizers m and soil applications.</li> </ul>	nixtures. Dry fertilizer for mixing with water for foliar
1.3. Details of the supp	lier of the safety data sheet	
MarVista Resources 745 North Ave. Corcoran, Ca. 93212 - USA T 559-992-4535		
1.4. Emergency telepho		
Emergency number	: 24 Hour Emergency Response Chemtrec: 1	-800-262-8200
SECTION 2: Hazard(s)	identification	
	e substance or mixture	
Classification (GHS-US)		
	14	
Category 1C Serious eye H3 damage/eye irritation	19	
Category 2A Reproductive toxicity H3 Category 1B	60	
Full text of H statements : see	section 16	
2.2. Label elements GHS-US labeling		
Hazard pictograms (GHS-US)	GHS05 GHS08	
Signal word (GHS-US)	: Danger	
Contains	: Urea Phosphate ; boric acid	
Hazard statements (GHS-US)	H314 - Causes severe skin burns and eye da H319 - Causes serious eye irritation H360 - May damage fertility or the unborn ch	Ĵ.
Precautionary statements (G⊦	P202 - Do not handle until all safety precauti P260 - Do not breathe dust P264 - Wash skin thoroughly after handling P280 - Wear eye protection, face protection, P301+P330+P331 - If swallowed: rinse mout P303+P361+P353 - If on skin (or hair): Take	ons have been read and understood protective clothing, protective gloves
	skin with water/shower P304+P340 - If inhaled: Remove person to fr P305+P351+P338 - If in eyes: Rinse cautiou lenses, if present and easy to do. Continue ri P308+P313 - If exposed or concerned: Get r P310 - Immediately call a doctor, a POISON P321 - Specific treatment (see the first aid se P337+P313 - If eye irritation persists: Get me P363 - Wash contaminated clothing before re P405 - Store locked up P501 - Dispose of contents/container to com	sly with water for several minutes. Remove contac insing nedical advice/attention CENTER (800-222-1222) action on this label) adical advice/attention euse

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 2.3. Other hazards

#### No additional information available

#### 2.4. Unknown acute toxicity (GHS US)

#### Not applicable

#### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

#### Not applicable

3.2. Mixture			
Name	Product identifier	%	Classification (GHS-US)
Urea Phosphate	(CAS No) 4861-19-2	5 - 24.9	Skin Corr. 1C, H314 Eye Irrit. 2B, H320
boric acid	(CAS No) 10043-35-3	< 3	Repr. 1B, H360

Full text of H-phrases: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a physician immediately.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/injuries	: If you feel unwell, seek medical advice (show the label where possible).
Symptoms/injuries after inhalation	: May cause slight irritation.
Symptoms/injuries after skin contact	: Burns.
Symptoms/injuries after eye contact	: Serious damage to eyes. Irritation to eyes.
Symptoms/injuries after ingestion	: Burns.
4.3. Indication of any immediate medica	attention and special treatment needed

#### Treat symptomatically.

08/23/2019

<b>SECTION 5: Firefighting measu</b>	res	
5.1. Extinguishing media		
Suitable extinguishing media	: Water spray. Dry powder. Foam.	
5.2. Special hazards arising from t	he substance or mixture	
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.	
5.3. Advice for firefighters		
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.	
SECTION 6: Accidental release	measures	
6.1. Personal precautions, protecti	ve equipment and emergency procedures	
6.1.1. For non-emergency personnel		
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene. Do not breathe dust/fume/gas/mist/vapors/spray.	
6.1.2. For emergency responders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8 Exposure controls/personal protection" ".	
6.2. Environmental precautions		
Avoid release to the environment. Notify authorities if product enters sewers or public waters.		
6.3. Methods and material for cont	ainment and cleaning up	
Methods for cleaning up	: Recover mechanically the product. Notify authorities if product enters sewers or public waters.	
Other information	: Dispose of materials or solid residues at an authorized site.	

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 6.4. **Reference to other sections**

For further information refer to section 8 : Exposure-controls/personal protection"".

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Avoid contact with skin and eyes. Do not breathe dust.
Hygiene measures	: Separate working clothes from town clothes. Launder separately. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, including any incompatibilities	
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep cool.
Heat-ignition	: KEEP SUBSTANCE AWAY FROM: ignition sources.
Storage area	: Store in a cool, dry place.

#### **SECTION 8: Exposure controls/personal protection**

#### 8.1. **Control parameters**

Urea Phosphate (4861-19-2)			
Not applicable			
boric acid (10043-35-3)			
ACGIH TWA (mg/m³) 2 mg/m³			
ACGIH	ACGIH STEL (mg/m <sup>3</sup> )	6 mg/m³	

8.2. Exposure controls	
Appropriate engineering controls	: Ensure good ventilation of the work station.
Hand protection	: Protective gloves.
Eye protection	: Safety glasses.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear respiratory protection.
Environmental exposure controls	: Avoid release to the environment.

SECTION 9: Physical and chemical properties		
9.1. Information on basic physical and	chemical properties	
Physical state	: Solid	
Appearance	: Crystalline powder.	
Color	: Pale blue	
Odor	<ul> <li>There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure.</li> <li>Mixture contains one or more component(s) which have the following odour(s): Odourless</li> </ul>	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: No data available	
Freezing point	: Not applicable	
Boiling point	: No data available	
Flash point	: Not applicable	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: No data available	
Explosion limits	: Not applicable	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Vapor pressure	: No data available	

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Relative density	:	Not applicable
Relative vapor density at 20 °C	:	No data available
Solubility	:	Water: > 100 g/l
Log Pow	:	No data available
Auto-ignition temperature	:	Not applicable
Decomposition temperature	:	No data available
Viscosity	:	No data available
Viscosity, kinematic	:	Not applicable
Viscosity, dynamic	:	No data available

#### 9.2. Other information

No additional information available

#### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

#### 10.5. Incompatible materials

Combustible materials. strong acids. Strong reducing agents.

#### 10.6. Hazardous decomposition products

No additional information available

### SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

#### : Not classified

boric acid (10043-35-3)	
LD50 oral rat 2660 mg/kg (Rat; OECD 401: Acute Oral Toxicity; Literature study; >2600 mg/kg bc Rat; Experimental value)	
LD50 dermal rabbit > 2000 mg/kg Rabbit; Experimental value; FIFRA (40 CFR)	
ATE US (oral)	2660.000 mg/kg body weight
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: May damage fertility or the unborn child.
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Symptoms/injuries after inhalation	: May cause slight irritation.
Symptoms/injuries after skin contact	: Burns.
Symptoms/injuries after eye contact	: Serious damage to eyes. Irritation to eyes.
Symptoms/injuries after ingestion	: Burns.

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### **SECTION 12: Ecological information**

#### 12.1. Toxicity

boric acid (10043-35-3)		
LC50 fish 1	100 ppm (96 h; Salmo gairdneri (Oncorhynchus mykiss); Soft water)	
EC50 Daphnia 1	658 - 875 mg/l (48 h; Daphnia magna)	
LC50 fish 2	79 ppm (96 h; Salmo gairdneri (Oncorhynchus mykiss); Hard water)	
EC50 Daphnia 2	19.7 mg/l (336 h; Daphnia magna)	
TLM fish 1	1800 ppm (24 h; Gambusia affinis)	
Threshold limit algae 1	5 mg/l (672 h; Elodea sp.)	
Threshold limit algae 2	0.4 - 0.8,336 h; Chlorella sp.; Growth	

#### 12.2. Persistence and degradability

boric acid (10043-35-3)		
Persistence and degradability	Biodegradability: not applicable. Biodegradability in soil: not applicable. No (test)data on mobility of the substance available.	
Biochemical oxygen demand (BOD)	Not applicable	
Chemical oxygen demand (COD)	Not applicable	
ThOD	Not applicable	
BOD (% of ThOD)	Not applicable	

#### 12.3. Bioaccumulative potential

boric acid (10043-35-3)		
BCF fish 1	0 (Salmo gairdneri (Oncorhynchus mykiss); Chronic)	
BCF fish 2 < 0.1 (60 days; Oncorhynchus tshawytscha; Fresh weight)		
Log Pow	Pow -1.09 (Experimental value; EU Method A.8: Partition Coefficient; 22 °C)	
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).	

#### 12.4. Mobility in soil

boric acid (10043-35-3)				
Ecology - soil		May be harmful to plant growth, blooming and fruit formation.		
12.5.	Other adverse effects			

Effect on the global warming

: No known ecological damage caused by this product.

SECTION 13: Disposal considerations				
13.1. Waste treatment methods				
Sewage disposal recommendations	: Prevent liquid from entering sewers, watercourses, underground or low areas.			
Waste disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.			
SECTION 14: Transport information	on			

Department of Transportation (DOT) In accordance with DOT Transport document description	: UN3261 Corrosive solids, n.o.s. (Urea phosphate), 8, III
UN-No.(DOT)	: UN3261
Proper Shipping Name (DOT)	: Corrosive solids, n.o.s.
	(Urea phosphate)
Class (DOT)	: 8 - Class 8 - Corrosive material 49 CFR 173.136
Hazard labels (DOT)	: 8 - Corrosive

8

# SoluClear 11-44-13 Low pH Safety Data Sheet according to Federal Register / Vol. 77 Mr. ---

Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 213
DOT Packaging Bulk (49 CFR 173.xxx)	: 240
DOT Symbols	: G - Identifies PSN requiring a technical name
DOT Special Provisions (49 CFR 172.102)	<ul> <li>128 - Regardless of the provisions of §172.101(c)(12), aluminum smelting by-products and aluminum remelting by-products described under this entry, meeting the definition of Class 8, Packing Group II and III may be classed as a Division 4.3 material and transported under this entry. The presence of a Class 8 hazard must be communicated as required by this Part for subsidiary hazards</li> <li>IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2)</li> <li>IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner</li> <li>T1 - 1.5 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 154
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	-
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel
Emergency Response Guide (ERG) Number	: 154
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea No additional information available	
Air transport	
No additional information available	
<b>SECTION 15: Regulatory information</b>	n
15.1. US Federal regulations	
Urea Phosphate (4861-19-2)	
Urea Phosphate (4861-19-2) Listed on the United States TSCA (Toxic Substa	ances Control Act) inventory
Listed on the United States TSCA (Toxic Substational States TSCA) (Toxic Substational States TSCA)	
Listed on the United States TSCA (Toxic Subst	
Listed on the United States TSCA (Toxic Substational States TSCA) (Toxic Substational States TSCA)	
Listed on the United States TSCA (Toxic Substational States TSCA) boric acid (10043-35-3) Listed on the United States TSCA (Toxic Substational States TSCA)	
Listed on the United States TSCA (Toxic Substation States TSCA) (Toxic Substational States Sta	
Listed on the United States TSCA (Toxic Substation of the United States TSCA (Toxic Substational States TSCA (Toxic Substational States TSCA (Toxic Substational States TSCA (Toxic Substational States TSCA) (Toxic Substational State	
Listed on the United States TSCA (Toxic Substational States TSCA)	

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

#### 15.3. US State regulations

No additional information available

#### **SECTION 16: Other information**

Full tex	t of H-phrases:	
	H314	Causes severe skin burns and eye damage
	H319	Causes serious eye irritation
	H320	Causes eye irritation
	H360	May damage fertility or the unborn child

#### SDS US (GHS HazCom 2012)

All information contained in this Safety Data Sheet is furnished free of charge and is intended for your evaluation. In our opinion the information is, as of the date of this Safety Data Sheet, reliable, however, it is your responsibility to determine the suitability of the information for your use. You are advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional or variable conditions or circumstances exist or because of applicable laws or government regulations. Therefore, you should use this information only as a supplement to other information from all souces to assure both proper use of the material described herein and the safety and health of employees. Accordingly, no guarantee is expressed or implied as to the results to be obtained based upon your use of the information.