

SoluClear 6-31-31 Low pH

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: Identifi 1.1. Identification		
Product form		Mixture
Product form Product name		SoluClear 6-31-31 Low pH
		nce or mixture and uses advised against
Use of the substance/mix	ure :	Fertilizer end-use, preparation of fertilizers mixtures. Dry fertilizer for mixing with water for foliar and soil applications.
1.3. Details of the s	upplier of the safety da	ta sheet
MarVista Resources		
745 North Ave. Corcoran, Ca. 93212 - US	Δ	
T 559-992-4535	7	
1.4. Emergency tel	phone number	
Emergency number		24 Hour Emergency Response Chemtrec: 1-800-262-8200
SECTION 2: Hazard	(s) identification	
2.1. Classification	of the substance or mix	ture
Classification (GHS-US)		
Skin corrosion/irritation	H314	
Category 1C	11040	
Serious eye damage/eye irritation	H319	
Category 2A		
Reproductive toxicity	H360	
Category 1B Full text of H statements :	and postion 16	
Fuil lext of Fi Statements .	see section to	
2.2. Label elements		
GHS-US labeling		
Hazard pictograms (GHS-	JS) :	
		GHS05 GHS08
Signal word (GHS-US)		Danger
Contains		Urea Phosphate ; boric acid
Hazard statements (GHS-		H314 - Causes severe skin burns and eye damage H319 - Causes serious eye irritation
		H360 - May damage fertility or the unborn child
Precautionary statements	(GHS-US) :	P201 - Obtain special instructions before use
		P202 - Do not handle until all safety precautions have been read and understood P260 - Do not breathe dust
		P260 - Do not bleathe dust P264 - Wash skin thoroughly after handling
		P280 - Wear eye protection, face protection, protective clothing, protective gloves
		P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse
		skin with water/shower
		P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
		P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contac lenses, if present and easy to do. Continue rinsing
		P308+P313 - If exposed or concerned: Get medical advice/attention
		P310 - Immediately call a doctor, a POISON CENTER (800-222-1222)
		P321 - Specific treatment (see the first aid section on this label) P337+P313 - If eye irritation persists: Get medical advice/attention
		P363 - Wash contaminated clothing before reuse
		P405 - Store locked up
		· · · · · · · · · · · · · · · · · · ·

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

Unknown acute toxicity (GHS US) 2.4.

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 effects	, 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 medical a	ttention and special treatment needed

Treat symptomatically.

08/23/2019

SECTI	ON 5: Firefighting measures	
5.1.	Extinguishing media	
Suitable	extinguishing media	: Water spray. Dry powder. Foam.
5.2.	Special hazards arising from the sub	ostance or mixture
Reactivit	ty	: The product is non-reactive under normal conditions of use, storage and transport.
5.3.	Advice for firefighters	
Protectio	on during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTI	ON 6: Accidental release meas	sures
6.1.	Personal precautions, protective equ	Jipment and emergency procedures
6.1.1.	For non-emergency personnel	
Emerger	ncy 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	
Protectiv	ve 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 re	lease to the environment. Notify authoritie	es if product enters sewers or public waters.
6.3.	Methods and material for containme	nt and cleaning up
Methods	for cleaning up	: Recover mechanically the product. Notify authorities if product enters sewers or public waters.
Other inf	formation	: Dispose of materials or solid residues at an authorized site.

EN (English US)

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	ng 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 (486	1-19-2)		
Not applicable			
boric acid (10043-35-3)			
ACGIH	ACGIH TWA (mg/m ³)	2 mg/m³	
ACGIH	ACGIH STEL (mg/m ³)	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	 There may be no odour warning properties, odour is subjective and inadequate to warn of overexposure. Mixture contains one or more component(s) which have the following odour(s): Odourless
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 bodyweight; 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	

Persistence and degradability 12.2.

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**

BCF fish 10 (Salmo gairdneri (Oncorhynchus mykiss); Chronic)BCF fish 2< 0.1 (60 days; Oncorhynchus tshawytscha; Fresh weight)Log Pow-1.09 (Experimental value; EU Method A.8: Partition Coefficient; 22 °C)Bioaccumulative potentialLow potential for bioaccumulation (BCF < 500).	boric acid (10043-35-3)	
Log Pow -1.09 (Experimental value; EU Method A.8: Partition Coefficient; 22 °C)	BCF fish 1 0 (Salmo gairdneri (Oncorhynchus mykiss); Chronic)	
	BCF fish 2 < 0.1 (60 days; Oncorhynchus tshawytscha; Fresh weight)	
Bioaccumulative potential I we potential for bioaccumulation (BCF < 500)	Log Pow -1.09 (Experimental value; EU Method A.8: Partition Coefficient; 22 °C)	
	Bioaccumulative potential	

12.4. Mobility in soil

boric acid (10043-35-3)		
Ecolo	gy - 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 considera	tions
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 informati	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 6-31-31 Low pH Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March

according to Federal Register / Vol. 77, No. 58 / Monday, I	Varch 26, 2012 / Rules and Regulations				
Packing group (DOT)	: III - Minor Danger				
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 213				
	OCT Packaging Bulk (49 CFR 173.xxx) : 240				
DOT Symbols	: G - Identifies PSN requiring a technical name				
DOT Special Provisions (49 CFR 172.102)	 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 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, 11H22, 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) IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner T1 - 1.5 178.274(d)(2) Normal				
DOT Packaging Expontions (40 CEP 172 yvv)					
DOT Packaging Exceptions (49 CFR 173.xxx) DOT Quantity Limitations Passenger aircraft/rail	: 154 : 25 kg				
) CFR 173.27))T Quantity Limitations Cargo aircraft only (49 : 100 kg R 175.75)					
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					
SECTION 15: Regulatory information					
15.1. US Federal regulations					
Urea Phosphate (4861-19-2)					
Listed on the United States TSCA (Toxic Substances Control Act) inventory					
boric acid (10043-35-3)					
Listed on the United States TSCA (Toxic Substa	inces Control Act) inventory				
15.2. International regulations					
CANADA No additional information available					
EU-Regulations No additional information available					
National regulations No additional information available					

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.