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# **United States** Material Safety Data Sheet

Swiss Farms Products Inc. 3993 Howard Hughes Parkway Las Vegas, Nevada 89169-6754 United States

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24 h. EMERGENCY TELEPHONE NUMBER CHEMTREC (U.S.) 800-424-9300 CHEMTREC (International) 1-703-527-3887 Non-Emergency Calls 1-937-644-0011

# VIGORO SOUTHERN WEED & FEED 29-0-3

1. Product and company identification		
MSDS #	:	32000006184
2. Hazards identification		
Physical state	:	solid [granular solid]
Color Odor Signal word OSHA/HCS status Emergency Overview	: : :	Various Fertilizer CAUTION! This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash throughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco.
Potential acute health effects		
Inhalation Ingestion Skin Eyes Target organs	: : : :	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. Harmful if swallowed. No known significant effects or critical hazards. No known significant effects or critical hazards. Contains material which causes damage to the following organs: upper respiratory tract skin eyes

#### Potential chronic health effects : See section 11 for more information.

### **Over-exposure signs/symptoms**

Inhalation	:	No specific data.
Ingestion	:	No specific data.
Skin	:	No specific data.
Eyes	:	No specific data.
Medical conditions aggravated	:	None known.
by over-exposure		

### See toxicological information (Section 11)

## **3.** Composition/information on ingredients

Name	CAS number	%
Urea	57-13-6	>40 - <=70
Potassium chloride (KCl)	7447-40-7	>5 - <=10
1,3,5-Triazine-2,4-diamine, 6-chloro-N2-ethyl-N4-(1- methylethyl)-	1912-24-9	>1 - <=3
Quartz (SiO2)	14808-60-7	>=0 - <=0.5

### 4. First aid measures

Eye contact	: Check for and remove any contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately.
Skin contact	<ul> <li>In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately.</li> </ul>
Inhalation	: Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention immediately.
Ingestion	: Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed.

Flammability of the product	:	No specific fire or explosion hazard.
Extinguishing media		
Suitable Not suitable	:	Use an extinguishing agent suitable for the surrounding fire. None known.
Special exposure hazards	:	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds metal oxide/oxides
Special protective equipment for fire-fighters	:	Fire-fighters should wear appropriate protective equipment and self- contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# 6. Accidental release measures

Personal precautions Environmental precautions	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see Section 8). Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas.
Methods for cleaning up		
Small spill Large spill	:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Move containers from spill area. Approach release from upwind. Prevent
		entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
7. Handling and storage		
Handling	:	Put on appropriate personal protective equipment (see Section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Avoid exposure - obtain special instructions before use. Do not get in eyes or on skin or clothing. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Storage	:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

## 8. Exposure controls/personal protection

### **Occupational exposure limits**

Ingredient	Exposure limits
Urea	AIHA WEEL (1999-01-01) Time Weighted Average (TWA) 10 mg/m3
1,3,5-Triazine-2,4-diamine, 6-chloro-N2-ethyl-N4- (1-methylethyl)-	OSHA PEL 1989 (1989-03-01) PEL: Permissible Exposure Level 5 mg/m3 NIOSH REL (1994-06-01) Time Weighted Average (TWA) 5 mg/m3 ACGIH TLV (1994-09-01) Notes: The agent (mixture, or exposure circumstance) is not classifiable as to its

	carcinogenicity to humans. Refers to Appendix A Carcinogens. 1996 Adoption TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 5 mg/m3
Quartz (SiO2)	<ul> <li>OSHA PEL 1989 (1989-03-01) PEL: Permissible Exposure Level 0.1 mg/m3 Form: Respirable dust</li> <li>NIOSH REL (1994-06-01) Notes: NIOSH potential occupational carcinogen See Appendix A - NIOSH Potential Occupational Carcinogen</li> <li>Time Weighted Average (TWA) 0.05 mg/m3 Form: Respirable dust</li> <li>OSHA PEL Z3 (1997-09-03) Notes: The percentage of crystalline silica in the formula is the amount determined from airborne samples, except in those instances in which other methods have been shown to be applicable. division by %SiO2+5</li> <li>Time Weighted Average (TWA) Form: Respirable</li> <li>OSHA PEL Z3 (1997-09-03) Notes: Both concentration and percent quartz for the application of this limit are to be determined from the fraction passing a size-selector. The measurements under this note refer to the use of an AEC (now NRC) instrument. The respirable fraction of coal dust is determined with an MRE; the figure corresponding to that of 2.4 mg/m3 in the table for coal dust is 4.5 mg/m3. division by %SiO2+2</li> <li>Time Weighted Average (TWA) 10 mg/m3 Form: Respirable</li> <li>OSHA PEL Z3 (1997-09-03) Notes: division by %SiO2+2</li> <li>Time Weighted Average (TWA) 30 mg/m3 Form: Total dust ACGIH TLV (2005-12-09) Notes: Suspected human carcinogen.</li> <li>TLV-TWA: Threshold Limit Value - Time weighted average PEL: Permissible Exposure Level 0.025 mg/m3 Form: Respirable fraction: means that size fraction of the airborne particulate deposited in the gas-exchange region of the respiratory tract and collected during air sampling with a particle size-selective sampling criteria for airborne particulate matter; and (b) has the cut point of 4 µm at 50 per cent collection efficiency.</li> </ul>

## Consult local authorities for acceptable exposure limits.

Recommended monitoring procedures	:	If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous
Engineering measures	:	substances will also be required. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Personal protection		
Respiratory	:	Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Hands	:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Eyes	:	Protective eyewear is not required, but may be used in situations were contact is expected.
Skin	:	No special protective clothing is required.
Environmental exposure controls	:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

# 9. Physical and chemical properties

Physical state	:	solid [granular solid]
Flash point	:	Not Applicable
Burning time	:	Not Applicable
Auto-ignition temperature	:	Not Applicable
Flammable limits	:	Not Applicable
Density	:	
Color	:	Various
Odor	:	Fertilizer
рН	:	Not Applicable
<b>Boiling/condensation point</b>	:	Not Applicable
Melting/freezing point	:	Not Applicable
Relative density	:	Not Applicable
Vapor pressure	:	Not Applicable
Vapor density	:	Not Applicable
Volatility	:	Not Applicable
Odor threshold	:	Not Applicable
Evaporation rate	:	Not Applicable
Viscosity	:	Not Applicable
Solubility	:	Not Applicable
Solubility in water	:	Not Applicable

# 10. Stability and reactivity

Chemical stability	:	The product is stable.
Conditions to avoid	:	No specific data.
Incompatible materials	:	No specific data.
Hazardous decomposition	:	Under normal conditions of storage and use, hazardous decomposition
products		products should not be produced.
Possibility of hazardous	:	Under normal conditions of storage and use, hazardous reactions will not
reactions		occur.

# 11. Toxicological information

Acute toxicity Product/ingredient name Urea Potassium chloride (KCl) 2-chloro-4-ethylamine-6- isopropylamine-1,3,5-triazin 2-chloro-4-ethylamine-6- isopropylamine-1,3,5-triazin Conclusion/Summary	L L L ne	<b>Result</b> D50 Oral D50 Oral D50 Oral D50 Dermal Very low toxic	<b>Species</b> Rat Rat Rat Rabbit	<b>Dose</b> 8,471 mg 2,600 mg 672 mg/k 7,500 mg or animals.	/kg - /kg - g -	posure
<u>Irritation/Corrosion</u> Skin Eyes Respiratory		May cause ski Moderate Not available.	n irritation.			
<u>Sensitizer</u> Conclusion/Summary	Ski Res	n piratory	Not sensitizin Not available	0		
<u>Chronic toxicity</u> Conclusion/Summary		No known sig	nificant effects	or critical haza	rds.	
<u>Carcinogenicity</u> Product/ingredient name Conclusion/Summary	Result	<b>Species</b> No known sig	nificant effects	<b>Dose</b> or critical haza	<b>Expo</b> rds.	sure
<u>Classification</u> Product/ingredient	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
name 2-chloro-4-ethylamine-6- isopropylamine-1,3,5- triazine	A4	3				
Quartz (SiO2)	A2			+	Proven	
<u>Mutagenicity</u> Conclusion/Summary		No known sig	nificant effects	or critical haza	rds.	
<u>Teratogenicity</u> Product/ingredient name	Result	-	ecies	Dose	-	osure
Conclusion/Summary		No known sig	nificant effects	or critical haza	rds.	
<u>Reproductive toxicity</u>						
Conclusion/Summary		No known sig	nificant effects	or critical haza	rds.	

### **12.Ecological information**

:

#### **Ecotoxicity**

Atrazine can travel (seep or leach) through soil and can enter ground water, which may be used a drinking water. This product is toxic to aquatic invertebrates

#### Aquatic ecotoxicity

Product/ingredient name		Result	Species	Exposure
1,3,5-Triazine-2,4-diamine, 6-c ethyl-N4-(1-methylethyl)-	hloro-N2-			
		Acute LC50 4.5 mg/l Fresh water	Fish - Rainbow trout,donaldson trout	4 d
		Acute EC50 0.014 mg/l Fresh water	Aquatic plants - Green algae	4 d
Conclusion/Summary	: N	No known significant effects or	Ŭ	
Persistence/degradability				
Conclusion/Summary	: N	lo known significant effects or	critical hazards.	
Partition coefficient: n- octanol/water	: No known significant effects or critical hazards.			
	: No known significant effects or critical hazards.			

Waste disposal

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### **14.Transport information**

<b>Regulatory</b>					
<i>information</i>	<u>UN no.</u>	Proper shipping name	Class	PG*	Note
DOT		Not Regulated			
IATA (C)	3077	Environmentally hazardous substance, solid,	9	(, III)	
		n.o.s. (Atrazine)			
IATA (P)	3077	Environmentally hazardous substance, solid,	9	(, III)	
		n.o.s. (Atrazine)			
IMDG	3077	ENVIRONMENTALLY HAZARDOUS	9	(, III)	
		SUBSTANCE, SOLID, N.O.S. (Atrazine)			
		(Atrazine)			
PG* · Packing	oroun				

PG\* : Packing group

15.Regulatory	information

#### **United States**

U.S. Federal regulations	:	United States - TSCA 12(b) - Chemical export notification: None of the
_		components are listed.
		United States - TSCA 8(a) - Inventory update rule (IUR): Not

		<ul> <li>determined</li> <li>SARA 302/304/311/312 extremely hazardous substances: No products were found.</li> <li>SARA 302/304 emergency planning and notification: No products were found.</li> <li>SARA 302/304/311/312 hazardous chemicals: No products were found.</li> <li>SARA 311/312 MSDS distribution - chemical inventory - hazard identification: Urea: Acu, Del Potassium chloride (KCl): Acu, Del 1,3,5-Triazine-2,4-diamine, 6-chloro-N2-ethyl-N4-(1-methylethyl)-: Acu, Del</li> </ul>
United States inventory (TSCA 8b)	:	All components are listed or exempted.
State regulations Massachusetts	:	The following components are listed: 1,3,5-Triazine-2,4-diamine, 6-chloro-N2-ethyl-N4-(1-methylethyl)-
New York	:	None of the components are listed.
New Jersey	:	The following components are listed: 1,3,5-Triazine-2,4-diamine, 6- chloro-N2-ethyl-N4-(1-methylethyl)- Quartz (SiO2)
Pennsylvania	:	The following components are listed: 1,3,5-Triazine-2,4-diamine, 6- chloro-N2-ethyl-N4-(1-methylethyl)- Quartz (SiO2)
California Prop. 65	:	WARNING: This product contains a chemical known to the State of California to cause cancer.

Ingredient name	Cancer	Reproductive	No significant risk level	Maximum acceptable dosage level
Quartz (SiO2)	Yes.	No.	No.	No.

International regulations	1
Canada inventory	: At least one component is not listed.
International lists	<ul> <li>Australia inventory (AICS): At least one component is not listed. Taiwan inventory (CSNN): Not determined. Malaysia Inventory (EHS Register): Not determined. China inventory (IECSC): At least one component is not listed. Korea inventory: At least one component is not listed. New Zealand Inventory of Chemicals (NZIoC): At least one component is not listed. Philippines inventory (PICCS): At least one component is not listed. Japan inventory: At least one component is not listed.</li> </ul>

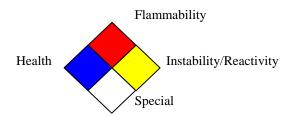
# **16.Other information**

Hazardous Material Information System (U.S.A.) :

Health	1	
Flammability	0	
Physical hazards	0	

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks Although HMIS® ratings are not required on MSDSs under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered mark of the National Paint & Coatings Association (NPCA). HMIS® materials may be purchased exclusively from J. J. Keller (800) 327-6868. The customer is responsible for determining the PPE code for this material.

National Fire Protection Association (U.S.A.):



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Date of printing	:	09/24/2013
Date of issue	:	09/24/2013
Version	:	1.0

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