

# SAFETY DATA SHEET

Issuing Date 07-Jan-2014 Revision Date 07-Jan-2014 Revision Number 0

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

## **GHS** product identifier

Product Name Solid Greeen 84 Iron Removing System

Other means of identification

Product Code(s) 7945

UN-Number UN3260

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Laundry Neutralizer

Uses advised against No information available

Supplier's details

**Supplier Address**Sunburst Chemicals, Inc.

220 W. 86th St.

Bloomington, MN 55420 TEL: 952-884-3144

## **Emergency telephone number**

**Emergency Telephone** 

1-866-303-6943

Number

## 2. HAZARDS IDENTIFICATION

#### Classification

This chemical is considered hazardous according to the OSHA Hazard Communication Standard 2012 (29 CFR 1910.1200)

Acute Oral Toxicity	Category 4
Skin Corrosion/Irritation	Category 1 Subcategory 1B
Serious Eye Damage/Eye Irritation	Category 1

#### GHS Label elements, including precautionary statements

## **Emergency Overview**

Signal Word Danger

Hazard Statements

Harmful if swallowed

Causes severe skin burns and eye damage



Appearance Blue Physical State Solid Odor Pleasant

#### **Precautionary Statements**

#### Prevention

- · Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Do not breathe dust/fume/gas/mist/vapors/spray
- Wear protective gloves/protective clothing/eye protection/face protection

#### **General Advice**

• Immediately call a POISON CENTER or doctor/physician

#### **Eyes**

- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- Immediately call a POISON CENTER or doctor/physician.

#### Skin

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
- · Wash contaminated clothing before reuse

#### Inhalation

• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

#### Ingestion

- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- Rinse mouth
- · Do NOT induce vomiting

#### Storage

· Store locked up

## Disposal

Dispose of contents/container to an approved waste disposal plant

#### **Hazard Not Otherwise Classified (HNOC)**

Not applicable

#### Other information

Toxic to aquatic life

No information available.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade secret
Citric acid	77-92-9	15-40	*
Ammonium bifluoride	1341-49-7	3 -7	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. FIRST AID MEASURES

### Description of necessary first-aid measures

**General Advice** Immediate medical attention is required.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek

immediate medical attention/advice.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes. Wash contaminated clothing before reuse. Seek immediate medical

attention/advice.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

**Ingestion** Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an

unconscious person. If symptoms persist, call a physician.

## Most important symptoms/effects, acute and delayed

Most Important Symptoms/Effects No information available.

#### Indication of immediate medical attention and special treatment needed, if necessary

Notes to Physician Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

#### Suitable Extinguishing Media

Water. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Keep containers and surroundings cool with water spray.

## Unsuitable Extinguishing Media None

#### **Specific Hazards Arising from the Chemical**

Sealed containers may rupture when heated. Spills produce extremely slippery surfaces.

Hazardous Combustion Products May release hydrogen fluoride with high heating.

**Explosion Data** 

Sensitivity to Mechanical Impact None
Sensitivity to Static Discharge None

#### **Protective Equipment and Precautions for Firefighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 6. ACCIDENTAL RELEASE MEASURES

## Personal precautions, protective equipment and emergency procedures

Personal Precautions If spilled, take caution, as material can cause surfaces to become very slippery. Avoid

contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Ensure adequate

ventilation. Use personal protective equipment.

#### **Environmental Precautions**

Environmental Precautions Avoid release to the environment. Collect spillage. See Section 12 for additional Ecological

Information Dispose of contents/container to an approved waste disposal plant. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

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## Methods and materials for containment and cleaning up

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Neutralize with soda ash or sodium bicarbonate over area of spill. Sweep up and shovel

into suitable containers for disposal. After cleaning, flush away traces with water.

#### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Ensure adequate

ventilation. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist.

Do not eat, drink or smoke when using this product.

## Conditions for safe storage, including any incompatibilities

Storage Keep container tightly closed. Keep container closed when not in use. Keep out of the

reach of children.

**Incompatible Products** Chlorine-based bleaching agents.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters**

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Ammonium bifluoride 1341-49-7	TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m <sup>3</sup> dust TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m <sup>3</sup> F
		(vacated) TWA: 2.5 mg/m <sup>3</sup>	

#### **Appropriate engineering controls**

Engineering Measures Showers

Eyewash stations Ventilation systems

## Individual protection measures, such as personal protective equipment

**Eye/Face Protection Skin and Body Protection**Tightly fitting safety goggles.
Rubber gloves. Rubber apron.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn.

**Hygiene Measures** Wash thoroughly after handling.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical State Solid Appearance Blue

OdorPleasantOdor ThresholdNo information available

<u>Property</u> <u>Values</u> <u>Remarks/ - Method</u>

None known Melting Point/Range No data available None known **Boiling Point/Boiling Range** None None known **Flash Point** None None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known

Flammability Limits in Air
upper flammability limit
lower flammability limit
No data available

**Vapor Pressure** No data available None known **Vapor Density** No data available None known **Relative Density** No data available None known **Specific Gravity** No data available None known **Water Solubility** Soluble None known Solubility in other solvents No data available None known Partition coefficient: n-octanol/waterNo data available None known **Autoignition Temperature** No data available None known **Decomposition Temperature** No data available None known **Viscosity** No data available None known

Flammable Properties Not flammable

Explosive Properties Not explosive Oxidizing Properties Not an oxidizer

**Other information** 

VOC Content (%) 0%

## 10. STABILITY AND REACTIVITY

#### Reactivity

No data available.

## **Chemical stability**

Stable under recommended storage conditions.

#### Possibility of hazardous reactions

None under normal processing.

## **Conditions to avoid**

None known based on information supplied.

## **Incompatible materials**

Chlorine-based bleaching agents.

## **Hazardous decomposition products**

Chlorine gas.

## 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

**Inhalation** May cause irritation of respiratory tract.

Eye ContactEye contact with corrosive substances can cause eye burns.Skin ContactSkin contact with corrosive substances can cause skin burns.IngestionHarmful if swallowed. Can burn mouth, throat, and stomach.

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#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

## Delayed and immediate effects and also chronic effects from short and long term exposure

Sensitization No information available.

Mutagenic Effects No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Ammonium bifluoride		Group 3		

IARC: (International Agency for Research on Cancer)
Group 3: Not Classifiable as to its Carcinogenicity to Humans
Reproductive Toxicity
No information available.
STOT - single exposure
No information available.
Aspiration Hazard
No information available.

#### Numerical measures of toxicity • - Product

The following values are calculated based on chapter 3.1 of the GHS document:

**LD50 Oral**1246 mg/kg; Acute toxicity estimate **LD50 Dermal**7052 mg/kg; Acute toxicity estimate

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Toxic to aquatic life.

Persistence and Degradability No information available.

**Bioaccumulation** No information available.

Other Adverse Effects
No information available.

## 13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods Dispose of in accordance with federal, state, and local regulations

**Contaminated Packaging** Dispose of in accordance with federal, state, and local regulations.

## 14. TRANSPORT INFORMATION

DOT

UN-Number UN3260

**Proper shipping name** Corrosive solid, acidic, inorganic, n.o.s.

Hazard Class 8
Packing Group ||

Reportable Quantity (RQ) Ammonium bifluoride: RQ kg= 687.88

154

Description UN3260, Corrosive solid, acidic, inorganic, n.o.s. (Ammonium bifluoride), 8, II, RQ

**Emergency Response Guide** 

Number

## 15. REGULATORY INFORMATION

**International Inventories** 

TSCA Complies
DSL Complies
EINECS Complies
IECSC Complies

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KECL Complies
PICCS Complies
AICS Complies

#### Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

## U.S. Federal Regulations

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 - Threshold Values %
Ammonium bifluoride	1341-49-7	3-7	1.0

#### SARA 311/312 Hazard Categories

Acute Health Hazard	Yes
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

#### Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Ammonium bifluoride	100 lb			X

## CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Citric acid			RQ Section Number 180.950
Ammonium bifluoride	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

## U.S. State Regulations

## California Proposition 65

This product does not contain any Proposition 65 chemicals.

# U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Citric acid	X				
Ammonium bifluoride	X	X	X		Х

#### U.S. EPA Label Information

**EPA Pesticide Registration Number** Not applicable

## **16. OTHER INFORMATION**

NFPA **Health Hazard** 3 Flammability 0 Instability 1 **Physical and Chemical** 

Hazards -

<u>HMIS</u> **Health Hazard** 3 Flammability 0 Physical Hazard 1 Personal Protection D

**Prepared By Sunburst Chemicals** 

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952-884-3144

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<u>General Disclaimer</u>
The information provided on this MSDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet** 

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