# **SAFETY DATA SHEET**

Issuing Date 07-Aug-2013 Revision Date 07-Aug-2013 Revision Number 0

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

### **GHS** product identifier

Product Name CYCLE 5

Other means of identification

Product Code(s) CYCLE 5

UN-Number UN1778

Synonyms CYCLE 5

### Recommended use of the chemical and restrictions on use

Recommended Use Institutional laundry detergent

Uses advised against No information available

### Supplier's details

### **Supplier Address**

Uni-Kem Chemicals, Inc. 802 Wm. Leigh Drive Tullytown, PA 19007

TEL: 800-752-1200

### **Emergency telephone number**

**Emergency Telephone** CHEM-TEL, INC.

**Number** 24 Hour Emergency Contact 1-800-255-3924

### 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 Clear, Green

Physical State Liquid.

Odor No information available

#### **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.

#### Eves

- 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

No information available.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms CYCLE 5

Chemical Name	CAS-No	Weight %	Trade secret
Fluorosilicic acid	16961-83-4	15-30	*

<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** 

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

Immediate medical attention is required.

**Skin Contact** Wash off immediately with soap and plenty of water. Remove and wash contaminated

clothing before re-use. Immediate medical attention is required.

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

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

unconscious person. Immediate medical attention is required.

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

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media None

#### Specific Hazards Arising from the Chemical

No information available

**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 Ensure adequate ventilation. Use personal protective equipment. Avoid contact with skin,

eyes and clothing. Stop leak if you can do it without risk. If spilled, take caution, as material

can cause surfaces to become very slippery.

**Environmental Precautions** 

**Environmental Precautions** Dispose of contents/container to an approved waste disposal plant.

#### Methods and materials for containment and cleaning up

Methods for Containment Stop leak if you can do it without risk

Methods for Cleaning Up Contain spill, dilute with water and neutralize as required. Wash away small spills with

plenty of water.

### 7. HANDLING AND STORAGE

#### Precautions for safe handling

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid breathing

vapors or mists. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid contact with skin, eyes and clothing. Wear personal protective equipment. Do not eat, drink or smoke when using

this product. Do not take internally. Wash thoroughly after handling.

#### Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Store at room

temperature. Keep from freezing. Keep container closed when not in use. Keep out of the

reach of children.

Incompatible Products Ferrous metals. Chlorine-based bleaching agents. Alkaline. Do not mix with anything but

water

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

#### **Control parameters**

#### **Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Fluorosilicic acid 16961-83-4	TWA: 2.5 mg/m <sup>3</sup> F	TWA: 2.5 mg/m <sup>3</sup> F TWA: 2.5 mg/m <sup>3</sup> dust (vacated) TWA: 2.5 mg/m <sup>3</sup>	TWA: 2.5 mg/m <sup>3</sup> F

### Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

#### Individual protection measures, such as personal protective equipment

Eye/Face ProtectionChemical splash goggles.Skin and Body ProtectionRubber gloves. Latex glovesRespiratory ProtectionParticle filtering face piece

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Physical State Liquid Appearance Clear Green

Odor No information available Odor Threshold No information available

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

pН 2.0 (4 % solution) Melting Point/Range No data available None known **Boiling Point/Boiling Range** > 100 °C /> 212 °F None known **Flash Point** No data available None known **Evaporation rate** No data available None known Flammability (solid, gas) No data available None known

Flammability Limits in Air

**upper flammability limit**No data available

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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** 1.049 None known **Water Solubility** 100% 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** 5 cps None known

Flammable Properties Not flammable

**Explosive Properties** No data available **Oxidizing Properties** No data available

Other information

**VOC Content (%)** No data available

### 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**

Incompatible products.

#### **Incompatible materials**

Ferrous metals. Chlorine-based bleaching agents. Alkaline. Do not mix with anything but water

#### **Hazardous decomposition products**

Hydrofluoric acid.

### 11. TOXICOLOGICAL INFORMATION

#### Information on likely routes of exposure

**Product Information** 

Inhalation Avoid breathing vapors or mists. Vapors may irritate throat and respiratory system.

**Eye Contact** Causes serious eye damage. **Skin Contact** Causes severe skin burns. Ingestion Harmful if swallowed.

Chemical Name LD50 Oral		LD50 Dermal	LC50 Inhalation	
	Water	90 mL/kg (Rat)	-	-

Fluorosilicic acid = 125 mg/kg ( Rat )		-	= 1.11 mg/L (Rat) 1 h
			-

#### 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** Contains no ingredient listed as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Fluorosilicic acid		Group 3		

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration Hazard
No information available.
No information available.
No information available.

#### Numerical measures of toxicity - Product

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

**LD50 Oral**462 mg/kg; Acute toxicity estimate **LD50 Dermal**462 mg/kg; Acute toxicity estimate

### 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

The environmental impact of this product has not been fully investigated.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Fluorosilicic acid 16961-83-4		LC50 96 h: = 65 mg/L static (Poecilia reticulata) LC50 96 h: = 28.7 mg/L static (Pimephales promelas)		
			<u> </u>	

Persistence and Degradability No information available.

**Bioaccumulation** No information available.

Chemical Name	Log Pow	

#### **Other Adverse Effects**

No information available.

### 13. DISPOSAL CONSIDERATIONS

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

**Contaminated Packaging** Do not re-use empty containers.

Chemical Name	California Hazardous Waste	
Fluorosilicic acid	Toxic	
	Corrosive	

### 14. TRANSPORT INFORMATION

<u>DOT</u>

UN-Number UN1778
Proper shipping name Fluorosilicic acid

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**Hazard Class** 8

**Packing Group** Ш

**Description** UN1778, Fluorosilicic acid, 8, II

**Emergency Response Guide** 

Number

**TDG** 

UN-Number UN1778

**Proper Shipping Name** Fluorosilicic acid

**Hazard Class Packing Group** Ш

**Description** UN1778, Fluorosilicic acid, 8, II

**UN-Number** UN1778

**Proper Shipping Name** Fluorosilicic acid

**Hazard Class Packing Group** Ш

**Description** UN1778, Fluorosilicic acid, 8, II

**ICAO** 

**UN-Number** UN1778

Proper shipping name Fluorosilicic acid

**Hazard Class Packing Group** Ш

Description UN1778, Fluorosilicic acid, 8, II

IATA

UN-Number UN1778

**Proper Shipping Name** Fluorosilicic acid

**Hazard Class Packing Group** Ш **ERG Code** 8L

Description UN1778, Fluorosilicic acid, 8, II

IMDG/IMO

**UN-Number** UN1778

**Proper Shipping Name** Fluorosilicic acid

**Hazard Class** 8 **Packing Group** Ш EmS No.

F-A. S-B

**Description** UN1778, Fluorosilicic acid, 8, II

**UN-Number** UN1778

**Proper Shipping Name** Fluorosilicic acid

**Hazard Class** 8 **Packing Group** Ш **Classification Code** C1

Description UN1778, Fluorosilicic acid, 8, II

**ADR** 

UN-Number UN1778

**Proper Shipping Name** Fluorosilicic acid

**Hazard Class** 8 **Packing Group** Ш **Classification Code** C1 **Tunnel Restriction Code** (E)

Description UN1778, Fluorosilicic acid, 8, II, (E)

ADR/RID-Labels

Proper Shipping Name Fluorosilicic acid

Hazard Class 8
Packing Group || Classification Code C1

**Description** UN1778, Fluorosilicic acid, 8, II

Limited Quantity 1 L

### 15. REGULATORY INFORMATION

#### **International Inventories**

TSCA Complies
DSL Complies
EINECS Complies
IECSC Complies
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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### 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 does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

### **U.S. State Regulations**

### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

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

"X" designates that the ingredients are listed on the state right to know list.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Illinois	Rhode Island
Fluorosilicic acid	X	X	X		X

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#### **U.S. EPA Label Information**

EPA Pesticide Registration Number Not applicable

**16. OTHER INFORMATION** Health Hazard 3 Flammability 0 Instability 0 NFPA **Physical and Chemical** Hazards -

Personal Protection X **HMIS Health Hazard** 3 Flammability 0 Physical Hazard 0

**Prepared By Product Stewardship** 

23 British American Blvd. Latham, NY 12110

1-800-572-6501 07-Aug-2013

**Issuing Date Revision Date** 07-Aug-2013 **Revision Note** Initial Release.

<u>General Disclaimer</u>
The information provided on this SDS 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**