

SAFETY DATA SHEET

Issue Date 10-Oct-2018 Revision Date 03-May-2018 Version 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name Cal-Brite +

Other means of identification

Product Code 4133-01 4133-08

Synonyms None

Details of the supplier of the safety data sheet

Company Name Nu-Calgon

2611 Schuetz Road St. Louis, MO 63043 (800)

554-5499

http://www.nucalgon.com/

Emergency telephone number

Emergency Telephone Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

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

Acute toxicity - Oral	Not classified
Acute toxicity - Dermal	Not classified
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

Label elements

Emergency Overview

Danger

Hazard statements

Causes severe skin burns and eye damage



Appearance Clear Pink Physical state Liquid Odor Nil

Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray

Wash face, hands and any exposed skin thoroughly after handling

Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response

Specific Treatment (See Section 4 on the SDS)

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

Wash contaminated clothing before reuse

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

Immediately call a POISON CENTER or doctor/physician IF SWALLOWED: Rinse mouth. DO NOT induce vomiting

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%	Trade Secret
Fluorosilicic Acid	16961-83-4	3-7	*
Glycolic Acid	79-14-1	1-5	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret.

4. FIRST AID MEASURES

First aid measures

General advice Immediate medical attention is required. If symptoms persist, call a physician.

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

clothes and shoes. If skin irritation persists, call a physician. For severe burns, immediate

medical attention is required.

Eye contact Immediate medical attention is required. Immediately flush with plenty of water. After initial

flushing, remove any contact lenses and continue flushing for at least 15 minutes. Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.

Call a physician or poison control center immediately.

Inhalation Remove to fresh air. If symptoms persist, call a physician. Immediate medical attention is

not required. Move to fresh air in case of accidental inhalation of vapors.

Ingestion Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Call a physician or poison

control center immediately. Never give anything by mouth to an unconscious person.

Self-protection of the first aiderUse personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms Any additional important symptoms and effects are described in Section 11: Toxicology

Information.

Indication of any immediate medical attention and special treatment needed

Note to physicians 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 Caution: Use of water spray when fighting fire may be inefficient.

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

personnel to safe areas. Keep people away from and upwind of spill/leak.

Environmental precautions

Environmental precautions Do not allow into any storm sewer drains, lakes, streams, ponds, estuaries, oceans or other

surface water bodies. Should not be released into the environment. Dispose of according to

all local city, state and federal rules and regulations.

Methods and material for containment and cleaning up

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

Methods for cleaning upSoak up with inert absorbent material. Pick up and transfer to properly labeled containers.

After cleaning, flush away traces with water. Prevent product from entering drains. Dam up.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Ensure adequate ventilation, especially in confined areas. Use personal protective

equipment as required. Use with local exhaust ventilation. Do not breathe

dust/fume/gas/mist/vapors/spray.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep out of the reach of children. Keep container tightly closed in a dry and well-ventilated

place. Keep in properly labeled containers.

Incompatible materialsNone known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Fluorosilicic Acid	TWA: 2.5 mg/m ³ F	TWA: 2.5 mg/m ³ F	IDLH: 250 mg/m ³ F
16961-83-4	_	(vacated) TWA: 2.5 mg/m ³	TWA: 2.5 mg/m ³ F

NIOSH IDLH Immediately Dangerous to Life or Health

Other Information Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

Appropriate engineering controls

Engineering Controls Showers, Eyewash stations & Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/face protection Tight sealing safety goggles. Wear a face shield if splashing hazard exists.

Skin and body protection Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls,

as appropriate, to prevent skin contact.

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

> respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

When using do not eat, drink or smoke. Avoid contact with skin, eyes or clothing. Use **General Hygiene**

personal protective equipment as required. Wash face, hands and any exposed skin

thoroughly after handling. Wash contaminated clothing before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical state Liquid Clear Pink **Appearance** Pink Color Odor

Odor threshold No Information available

Property Remarks • Method Values

Hq <2 **Specific Gravity** 1.080

Viscosity < 25 cP @ 25°C

Melting point/freezing point No Information available

Flash point None

Boiling point / boiling range

Evaporation rate No Information available Flammability (solid, gas) No data available

Flammability Limits in Air

Upper flammability limit: No Information available Lower flammability limit: No Information available Vapor pressure No Information available Vapor density No Information available

Water solubility Complete

No Information available Partition coefficient No Information available **Autoignition temperature Decomposition temperature** No Information available

Other Information

9.00 **Density Lbs/Gal**

VOC Content (%) Not Applicable

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

Extremes of temperature and direct sunlight.

Incompatible materials

None known based on information supplied.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Avoid breathing vapors or mists. Breathing of vapor can cause respiratory irritation and

inflammation. Breathing of mist or liquid can cause burns to the respiratory tract.

Eye contact Avoid contact with eyes. Corrosive. Causes severe eye damage.

Skin Contact Avoid contact with skin. Corrosive. Contact with skin may cause severe irritation and burns.

Ingestion Do not taste or swallow. Ingestion causes acute irritation and burns to the mucous

membranes of the mouth, trachea, esophagus and stomach.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Fluorosilicic Acid 16961-83-4	= 430 mg/kg (Rat)	-	= 1.11 mg/L (Rat) 1 h
Glycolic Acid 79-14-1	= 1950 mg/kg (Rat)	-	= 3.6 mg/L (Rat) 4 h

Information on toxicological effects

Symptoms No Information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Corrosivity Causes burns. Extremely corrosive and destructive to tissue. Risk of serious damage to

eyes.

Sensitization No Information available.

Germ cell mutagenicity No Information available.

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

Chemical Name	ACGIH	IARC	NTP	OSHA
Fluorosilicic Acid	-	Group 3	-	-
16961-83-4		-		

IARC (International Agency for Research on Cancer) Group 3 -Not classifiable as a human carcinogen

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
Chronic toxicity
Aspiration hazard
No Information available.
No Information available.
Avoid repeated exposure.
No Information available.

Numerical measures of toxicity - Product Information

Unknown Acute Toxicity 0% of the mixture consists of ingredient(s) of unknown toxicity

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

 ATEmix (oral)
 5,530.00

 ATEmix (dermal)
 36,667.00

 ATEmix (inhalation-dust/mist)
 128.60

12. ECOLOGICAL INFORMATION

Ecotoxicity

3% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Fluorosilicic Acid	-	65: 96 h Poecilia reticulata mg/L	-
16961-83-4		LC50 static 28.7: 96 h Pimephales	
		promelas mg/L LC50 static	
Glycolic Acid	-	5000: 96 h Brachydanio rerio mg/L	-
79-14-1		LC50 static	
Editronic Acid (Phosphonic Acid)	-	868: 96 h Lepomis macrochirus	527: 48 h Daphnia magna mg/L
2809-21-4		mg/L LC50 static 360: 96 h	EC50
		Oncorhynchus mykiss mg/L LC50	
		static	
Phosphonic Acid	-	6980 - 9784: 96 h Brachydanio rerio	-
13598-36-2		mg/L LC50 static	

Persistence and degradability

No Information available.

Bioaccumulation

Bioaccumulative potential.

Chemical Name	Partition coefficient
Glycolic Acid	-1.11
79-14-1	

Other adverse effects No Information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Do not reuse container.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
Fluorosilicic Acid	Toxic
16961-83-4	Corrosive

14. TRANSPORT INFORMATION

Per CFR 173.154 (b)(2), this product can ship as Limited Quantity if packaged not over 5.0 L (1.3 gallon) net capacity each for liquids and must not exceed 30 kg (66 pounds) gross weight.

DOT

UN/ID No. UN1760

Proper shipping name Corrosive liquids, n.o.s.

Hazard Class 8
Packing Group

Special Provisions IB3, T7, TP1, TP28

Description UN1760, Corrosive liquids, n.o.s. (contains Fluorosilicic Acid and Hydroxyacetic Acid), 8, III

Emergency Response Guide 154

Number

TDG

UN/ID No. UN1760

Proper shipping name Corrosive liquids, n.o.s.

Hazard Class 8
Packing Group III

Description UN1760, Corrosive liquids, n.o.s. (contains Fluorosilicic Acid and Hydroxyacetic Acid), 8, III

15. REGULATORY INFORMATION

International Inventories

TSCA Complies DSL/NDSL Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

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

CWA (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

US State Regulations

California Proposition 65

This product has been evaluated and does not require warning labeling under California Proposition 65.

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Fluorosilicic Acid 16961-83-4	X	X	-
Phosphonic Acid 13598-36-2	Х	-	-

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

4 ^			
าก	OIHER	INFOR	MATION

NFPA Health hazards 3 Flammability 0 Instability 0 Physical and Chemical Properties -

Health hazards 3 Flammability 0 Physical hazards 0 Personal protection C

Issue Date 10-Oct-2018
Revision Date 03-May-2018
Revision Note

No Information available

Disclaimer

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

End of Safety Data Sheet