

SAFETY DATA SHEET

Issue Date 20-Jan-2022 Revision Date 20-Jan-2022 Version 3

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) 554-5449

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	Category 5
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1

Label elements

Emergency Overview

Danger

Hazard statements

May be harmful if swallowed Causes severe skin burns and eye damage



Appearance Clear Pink Physical state Liquid Odor No Information available

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

Drink plenty of water

Immediately call a POISON CENTER or doctor/physician

Precautionary Statements - Storage

Store locked up

Precautionary Statements - Disposal

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

Hazards not otherwise classified (HNOC)

Other Information

- · Toxic to aquatic life with long lasting effects
- · Harmful to aquatic life

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
Surfactant Blend	Proprietary	7-13	*
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.

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

clothes and shoes. For minor skin contact, avoid spreading material on unaffected skin. For

severe burns, immediate medical attention is required.

Eye contact Do not rub affected area. Rinse immediately with plenty of water, also under the eyelids, for

at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Keep eye wide open while rinsing.

Inhalation Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give

oxygen. Call a physician or poison control center immediately.

Ingestion Rinse mouth. Drink plenty of water. Do NOT induce vomiting. Never give anything by mouth

to an unconscious person. Call a physician or poison control center immediately.

Self-protection of the first aider

Use personal protective equipment as required. Avoid contact with skin, eyes or clothing.

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 Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with moist rales, frothy sputum, and high pulse pressure. 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

The product causes burns of eyes, skin and mucous membranes. Thermal decomposition can lead to release of irritating and toxic gases and vapors. In the event of fire and/or explosion do not breathe fumes.

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 Avoid contact with skin, eyes or clothing. Evacuate personnel to safe areas. Keep people

away from and upwind of spill/leak. Use personal protective equipment as required.

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 up Dam up. Dike far ahead of liquid spill for later disposal. Prevent product from entering

drains. Soak up with inert absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly. After cleaning, flush away

traces with water.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handlingUse personal protective equipment as required. Avoid contact with skin, eyes or clothing.

Ensure adequate ventilation, especially in confined areas. In case of insufficient ventilation, wear suitable respiratory equipment. Use only with adequate ventilation and in closed

systems.

Conditions for safe storage, including any incompatibilities

Storage Conditions Keep out of the reach of children. Keep containers tightly closed in a dry, cool and

well-ventilated place. Keep in properly labeled containers.

Incompatible materials Incompatible with strong acids and bases. Incompatible with oxidizing agents.

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/m³ 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.

General Hygiene Keep away from food, drink and animal feeding stuffs. When using do not eat, drink or

smoke. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Take off all contaminated clothing and wash it before reuse. Wear suitable

gloves and eye/face protection.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical stateLiquidAppearanceClear PinkColorPink

Odor No Information available
Odor threshold No Information available

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

pH <2 Specific Gravity 1.080

Viscosity < 25 cP @ 25°C

Melting point/freezing point No Information available

None

Flash point

Boiling point / boiling range

Evaporation rate

Flammability (solid, gas)

No Information available

No data available

Flammability Limits in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density

No Information available
No Information available
No Information available
No Information available

Water solubility Complete

Partition coefficientNo Information availableAutoignition temperatureNo Information availableDecomposition temperatureNo Information available

Other Information

Density Lbs/Gal 9.0

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

Exposure to air or moisture over prolonged periods.

Incompatible materials

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

Hazardous Decomposition Products

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

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 May be harmful if swallowed. 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
Surfactant Blend	> 2000 mg/kg (Rat)	> 2000 mg/kg (Rat)	-
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 Germ cell mutagenicityNo Information available.
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		-		

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

Reproductive toxicity
STOT - single exposure
STOT - repeated exposure
No Information available.
No Information available.

Chronic toxicity Chronic exposure to corrosive fumes/gases may cause erosion of the teeth followed by jaw

necrosis. Bronchial irritation with chronic cough and frequent attacks of pneumonia are common. Gastrointestinal disturbances may also be seen. Avoid repeated exposure.

Possible risk of irreversible effects.

Aspiration hazard 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)
 4,447.90

 ATEmix (dermal)
 20,000.00

 ATEmix (inhalation-dust/mist)
 128.60

12. ECOLOGICAL INFORMATION

Ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Algae/aquatic plants	Fish	Crustacea
Surfactant Blend	-	1.2: 96 h Oncorhynchus mykiss mg/L LC50	5.3: 48 h Daphnia mg/L LC50
Fluorosilicic Acid 16961-83-4	-	28.7: 96 h Pimephales promelas mg/L LC50 static 65: 96 h Poecilia reticulata mg/L LC50 static	-
Glycolic Acid 79-14-1	-	5000: 96 h Brachydanio rerio mg/L LC50 static	-
Editronic Acid (Phosphonic Acid) 2809-21-4	-	360: 96 h Oncorhynchus mykiss mg/L LC50 static 868: 96 h Lepomis macrochirus mg/L LC50 static	527: 48 h Daphnia magna mg/L EC50
Phosphonic Acid 13598-36-2	-	6980 - 9784: 96 h Brachydanio rerio 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 wastesDisposal 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), for corrosive materials in Packaging Group III, this product can ship as Limited Quantity if packaged not over 5.0 L (1.3 gallon) net capacity each for liquids or not over 5.0 kg (11 lbs) net capacity each for solids, packed in a strong outer packaging. 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 III

Special Provisions IB3, T7, TP1, TP28

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

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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 Yes
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)

<u>CERCLA</u>

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	X	X	-
16961-83-4			
Phosphonic Acid	X	=	-
13598-36-2			

U.S. EPA Label Information

EPA Pesticide Registration Number Not Applicable

NFPA	Health hazards 3	Flammability 0	Instability 0	Physical and Chemical Properties -
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16. OTHER INFORMATION

Health hazards 3 Flammability 0 Physical hazards 0 Personal protection C

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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