

Safety Data Sheet M020208 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 10/26/2017 Revision date: 07/03/2018 Version: 1.1

SECTION 1: Identification			
.1. Identification			
Product form	: Substance		
Substance name	: Calcium(II) tetrafluoroborate		
CAS No	: 13814-93-2		
Product code	: M020-2-08		
ormula	: B2CaF8		
other means of identification	: MFCD00015972		
.2. Relevant identified uses of the subs	stance or mixture and uses advised against		
Ise of the substance/mixture	: Laboratory chemicals Manufacture of substances Scientific research and development		
.3. Details of the supplier of the safety	data sheet		
SynQuest Laboratories, Inc. P.O. Box 309 Nachua, FL 32615 - United States of America F (386) 462-0788 - F (386) 462-7097 nfo@synquestlabs.com	<u>m</u>		
.4. Emergency telephone number			
mergency number	: (844) 523-4086 (3E Company - Account 10069)		
ECTION 2: Hazard(s) identification			
1. Classification of the substance or m	nixture		
assification (GHS-US)			
Acute Tox. 4 (Inhalation)H332 - Harmful if in H314 - Causes seveSkin Corr. 1BH314 - Causes seveEye Dam. 1H318 - Causes seveSTOT SE 3H335 - May cause rFull text of H-phrases: see section 16	ere skin burns and eye damage ous eye damage		
.2. Label elements			
GHS-US labeling			
lazard pictograms (GHS-US)	CHS05 GHS07		
Vignal word (CLIS, LIS)			
	Danger		
Signal word (GHS-US) lazard statements (GHS-US)	 Danger H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H314 - Causes severe skin burns and eye damage H335 - May cause respiratory irritation 		
,	: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled H314 - Causes severe skin burns and eye damage		

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	 P321 - Specific treatment (see supplemental first aid instructions on this label) P330 - Rinse mouth P362+P364 - Take off contaminated clothing and wash it before reuse P363 - Wash contaminated clothing before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to an approved waste disposal plant 				
2.3. (Other hazards				
	nal information available				
	Unknown acute toxicity (GHS US))			
Not applica	able				
SECTIO	N 3: Composition/informat	ion on ir	ngredients		
3.1. 8	Substance				
Substance	type	: Mon	o-constituent		
Name			Product identifier	%	Classification (GHS-US)
Calcium(II) (Main consti) tetrafluoroborate ituent)		(CAS No) 13814-93-2	<= 100	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335
-ull text of	H-phrases: see section 16			•	,
3.2.	Mixture				
Not applica	able				
SECTIO	N 4: First aid measures				
4.1. E	Description of first aid measures				
First-aid m	easures general		se of accident or if you feel unwere possible). Move the affected p		
First-aid m	easures after inhalation		: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.		
First-aid m	easures after skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. In case of skin contact, wearing rubber gloves rub 2.5% calcium gluconate gel continuously into the affected area for 1.5 hours or until further medical care is available. Get immediate medical advice/attention.			
First-aid m	easures after eye contact		: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.		
First-aid m	easures after ingestion	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.			
4.2. I	Most important symptoms and ef	fects, both	acute and delayed		
Symptoms	/injuries	: The 2.2)	most important known symptoms and/or in section 11.	s and effects are desc	ribed in the labelling (see section
Symptoms	/injuries after inhalation		rial is destructive to tissue of the tness of breath, headache, naus		s and upper respiratory tract. Cough,
4.3. I	ndication of any immediate medi	cal attentio	on and special treatment need	ed	
	, interaction of the second				

SECT	ION 5: Firefighting measures		
5.1.	Extinguishing media		
Suitable extinguishing media		Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.	
5.2.	Special hazards arising from the su	ubstance or mixture	
Fire ha	zard	: Thermal decomposition generates: Borane/boron oxides. Calcium oxide. Hydrogen fluoride.	
5.3.	Advice for firefighters		
Firefigh	ting instructions	: In case of fire: Evacuate area.	
Protect	ion during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".	

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General measures : Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe dust. 6.1.1. For non-emergency personnel Emergency procedures : Only qualified personnel equipped with suitable protective equipment may intervene. 6.1.2. For emergency responders Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". 6.2. Environmental precautions Avoid release to the environment. Notify authorities if product enters sewers or public waters. 6.3. Methods and material for containment and cleaning up For containment : Stop leak if safe to do so. Methods for cleaning up : Stop leak if safe to do so. Sweep or shovel spills into appropriate container for disposal. Minimize generation of dust. 6.4. Reference to other sections : For disposal of solid materials or residues refer to section 13 : "Disposal considerations". 6.4. Reference to other sections : Do not handle until all safety precautions have been read and understood. Ensure good veniliation of the work station. Do not breathed ust, mist, spray. Wear personal protective equipment. Avoid contact with skin and eyes. Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. 7.2. Conditions for safe storage, includding any incompatibilities Tec					
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	Special rules on packaging	: Do not store in glass.			

SECTION 8: Exposure controls/personal protection 8.1. **Control parameters**

No additional information available

8.2. **Exposure controls**

No additional information available

SECT	ION 9: Physical and chemication	al properties
9.1.	Information on basic physical an	d chemical properties
Physica	al state	: Solid
Color		: No data available
Odor		: No data available
Odor th	reshold	: No data available
pН		: No data available
Melting	point	: No data available
Freezin	ng point	: No data available
Boiling	point	: No data available
Flash p	point	: No data available
Relative	e evaporation rate (butyl acetate=1)	: No data available
Flamma	ability (solid, gas)	: No data available

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Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: No data available
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Molecular mass	: 213.69 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

9.2. **Other information**

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. **Chemical stability**

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Contact with acids liberates toxic gas. Contact with water liberates toxic gas.

10.4. **Conditions to avoid**

Keep away from heat, sparks and flame.

10.5. **Incompatible materials**

Acids. Strong bases. Strong oxidizing agents. Water.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information

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11.1. Information on toxicological effects	
Acute toxicity	: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin. Inhalation: Harmful if inhaled.
Skin corrosion/irritation	: Causes severe skin burns and eye damage.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Absorption of excessive F- can result in acute systemic fluorosis with hypocalcemia, interference with various metabolic functions and organ damage (heart, liver, kidneys).
Symptoms/injuries after inhalation	: Material is destructive to tissue of the mucuous membranes and upper respiratory tract. Cough, shortness of breath, headache, nausea.

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SECT	ION 12: Ecological information
12.1.	Toxicity
No add	tional information available
12.2.	Persistence and degradability
No add	tional information available
12.3.	Bioaccumulative potential
No add	tional information available
12.4.	Mobility in soil
No addi	tional information available
12.5.	Other adverse effects
No add	tional information available

SECTION 13: Disposal considera	tions
13.1. Waste treatment methods	
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.
Waste disposal recommendations	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Additional information	: Recycle the material as far as possible.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT Transport document description

UN-No.(DOT)

Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)

Packing group (DOT)

- DOT Packaging Non Bulk (49 CFR 173.xxx)
- DOT Packaging Bulk (49 CFR 173.xxx)
- DOT Symbols
- DOT Special Provisions (49 CFR 172.102)

- : UN3260 Corrosive solid, acidic, inorganic, n.o.s., 8, III
- : UN3260
- : Corrosive solid, acidic, inorganic, n.o.s.
- : 8 Class 8 Corrosive material 49 CFR 173.136
- : 8 Corrosive



- : III Minor Danger
- : 213
- : 240
- : G Identifies PSN requiring a technical name
- : IB8 Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2). IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.
 - T1 1.5 178.274(d)(2) Normal..... 178.275(d)(2)

TP33 - The portable tank instruction assigned for this substance applies for granular and powdered solids and for solids which are filled and discharged at temperatures above their melting point which are cooled and transported as a solid mass. Solid substances transported or offered for transport above their melting point are authorized for transportation in portable tanks conforming to the provisions of portable tank instruction T4 for solid substances of packing group III or T7 for solid substances of packing group II, unless a tank with more stringent requirements for minimum shell thickness, maximum allowable working pressure, pressure-relief devices or bottom outlets are assigned in which case the more stringent tank instruction and special provisions shall apply. Filling limits must be in accordance with portable tank special provision TP3. Solids meeting the definition of an elevated temperature material must be transported in accordance with the applicable requirements of this subchapter.

DOT Packaging Exceptions (49 CFR 173.xxx) : 154 DOT Quantity Limitations Passenger aircraft/rail : 25 kg (49 CFR 173.27)

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: 100 kg
: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
: No supplementary information available.
: 3260
: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S.
: 8 - Corrosive substances

Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 3260
Proper Shipping Name (IATA)	: Corrosive solid, acidic, inorganic, n.o.s.
Class (IATA)	: 8 - Corrosives
Packing group (IATA)	: III - Minor Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory except for:

	Calcium(II) tetrafluoroborate	CAS No 13814-93-2	100%
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This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

Calcium(II) tetrafluoroborate (13814-93-2)

Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

SECTION 16: Other information

Revision date

: 07/03/2018

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Full text of H-phrases:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Skin Corr. 1B	Skin corrosion/irritation Category 1B
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation

NFPA health hazard	: 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.
NFPA fire hazard	: 0 - Materials that will not burn.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability	: 0 Minimal Hazard - Materials that will not burn
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT

SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.

react with water, polymerize, decompose, condense, or self-react. Non-Explosives.