spectrum



SAFETY DATA SHEET

Preparation Date: 03/31/2016	Revision Date: 03/31/2016	Revision Number: G1
	1. IDENTIFICATION	
Product identifier		
Product code:	C1830	
Product Name:	CALCIUM SACCHARATE, USP	
Other means of identification		
Synonyms:	Calcium-D-Saccharate tetrahydrate	
	D-Glucaric Acid Calcium Salt (1:1) tetrahydrate	
CAS #:	5793-89-5	
RTECS #	Not available	
CI#:	Not available	
Recommended use of the chem	ical and restrictions on use	
Recommended use:	No information available.	
Uses advised against	No information available	
Supplier:	Spectrum Chemical Mfg. Corp	
	14422 South San Pedro St.	
	Gardena, CA 90248	
	(310) 516-8000	
Order Online At:	https://www.spectrumchemical.com	
Emergency telephone number	Chemtrec 1-800-424-9300	
Contact Person:	Martin LaBenz (West Coast)	
Contact Person:	Ibad Tirmiz (East Coast)	
	2. HAZARDS IDENTIFICATION	

Classification

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

Considered a dangerous substance or mixture according to the Globally Harmonized System (GHS)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2A
Specific target organ toxicity (single exposure)	Category 3

Label elements

Warning

Hazard statements Causes skin irritation Causes serious eye irritation May cause respiratory irritation



Hazards not otherwise classified (HNOC) Not Applicable

Other hazards

Not available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area Wear protective gloves Wear eye/face protection

Precautionary Statements - Response

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN: Wash with plenty of water If skin irritation occurs: Get medical advice/attention Take off contaminated clothing and wash it before reuse IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Components	CAS-No.	Weight %
Calcium Saccharate	5793-89-5	100
5793-89-5		

4. FIRST AID MEASURES

First aid measures General Advice:

National Capital Poison Center in the United States can provide assistance if you have a poison emergency and need to talk to a poison specialist. Call 1-800-222-1222.

4. FIRST AID MEASURES

Skin Contact:	Wash off immediately with soap and plenty of water removing all contaminated clothing and shoes. Get medical attention. If skin irritation persists, call a physician.
Eye Contact:	Flush eyes with water for 15 minutes. Get medical attention.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
Ingestion:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. Obtain medical attention.
Most important symptoms and effect	ts, both acute and delayed
Symptoms	Irritating to eyes and skin. Irritating to respiratory system.

Indication of any immediate medical attention and special treatment neededNotes to Physician:Treat symptomatically

Protection of first-aiders

First-Aid Providers: Avoid exposure to blood or body fluids. Wear gloves and other necessary protective clothing. Dispose of contaminated clothing and equipment as bio-hazardous waste

5. FIRE-FIGHTING MEASURES

Extinguishing Media Suitable Extinguishing Media:	Dry chemical. Carbon dioxide (CO2). Water spray mist or foam.
Unsuitable Extinguishing Media:	No information available.
Specific hazards arising from the chemical	
Hazardous Combustion Products:	Carbon monoxide; Carbon dioxide; calcium oxides
Specific hazards:	May be combustible at high temperatures
Special Protective Actions for Firefighters	
Specific Methods:	No information available.
Special Protective Equipment 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. Keep people away from and upwind of spill/leak. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Use personal protective equipment. Avoid dust formation. Remove all sources of ignition.
Environmental precautions	Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas.
Methods and material for contair	nment and cleaning up
Methods for containment	Stop leak if you can do it without risk. Cover with plastic sheet to prevent spreading.
Methods for cleaning up	Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.
	7. HANDLING AND STORAGE

Precautions for safe handling

Technical Measures/Precautions:

Provide sufficient air exchange and/or exhaust in work rooms. Avoid dust formation. All equipment used when handling the product must be grounded. Keep away from incompatible materials.

Safe Handling Advice

Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust formation. Do not ingest. Do not breathe vapors/dust. Keep away from heat and sources of ignition. Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

Technical Measures/Storage Conditions:

Keep container tightly closed in a dry and well-ventilated place. Store at room temperature in the original container. Store away from incompatible materials.

Incompatible Materials:

Oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

National occupational exposure limits

United States

Components	OSHA	NIOSH	ACGIH	AIHA WHEEL
Calcium Saccharate	None	None	None	None
5793-89-5				

Canada

Components	Alberta	British Columbia	Ontario	Quebec
Calcium Saccharate	None	None	None	None
5793-89-5				

Australia and Mexico

Components Australia	Mexico
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Calcium Saccharate	None	None
5793-89-5		

Appropriate engineering controls

Engineering measures to reduce exposure:	Ensure adequate ventilation. Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.
In dividual wate often water and an all water	

Individual protection measures, such as personal protective equipment

Personal Protective Equipment

Eye protection:	Goggles
Skin and body protection:	Long sleeved clothing. Chemical resistant apron. Gloves.
Respiratory protection:	Effective dust mask. Use a dust respirator under conditions where exposure to the substance is apparent (e.g. generation of high concentration of dust (dust clouds), inadequate ventilation, development of respiratory tract irritation), and engineering controls are not feasible. Be sure to use an approved/certified respirator or equivalent.
Hygiene measures:	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical state: Solid

Odor: Odorless.

Molecular/Formula weight: 320.26

Flash Point Tested according to: Not available

Upper Explosion Limit (%): No information available

Decomposition temperature(°C/°F): No information available

Density (g/cm3): 1.77

Evaporation rate: No information available

Odor threshold (ppm): No information available

Miscibility: No information available Appearance: Powder.

Taste No information available

Flammability: No information available

Autoignition Temperature (°C/°F): No information available

pH: No information available

Boiling point/range(°C/°F): No information available

Specific gravity: No information available

Vapor density: No information available

Partition coefficient (n-octanol/water): No information available

Solubility: Practically insoluble in water

10. STABILITY AND REACTIVITY

Color: White.

Formula: C6H8CaO8.4H2O

Flashpoint (°C/°F): No information available.

Lower Explosion Limit (%): No information available

Melting point/range(°C/°F): 250 °C/482 °F

Bulk density: No information available

Vapor pressure @ 20°C (kPa): No information available

VOC content (g/L): No information available

Viscosity: No information available

Reactivity Reactive with oxidizing agents

Chemical stability Stability:	Stable under recommended storage conditions
Possibility of Hazardous Reactions:	Hazardous polymerization does not occur
Conditions to avoid:	Heat. Avoid dust formation. Incompatible materials.
Incompatible Materials:	Oxidizing agents.
Hazardous decomposition products:	Carbon monoxide. Carbon dioxide. Calcium oxides.

Other Information Corrosivity:

No information available

Special Remarks on Corrosivity: No information available

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Principal Routes of Exposure: Ingestion. Inhalation.

Component Information

Calcium Saccharate - 5793-89-5

LD50/oral/rat = No information available LD50/oral/mouse = No information available LD50/dermal/rabbit = No information available LD50/dermal/rat = No information available LC50/inhalation/rat = No information available LC50/inhalation/mouse = No infomation available Other LD50 or LC50information = No information available

Product Information

LD50/oral/rat = VALUE- Acute Tox Oral = No information available

LD50/oral/mouse = Value - Acute Tox Oral = No information available

LD50/dermal/rabbit VALUE-Acute Tox Dermal = No information available

LD50/dermal/rat VALUE -Acute Tox Dermal = No information available

LC50/inhalation/rat VALUE-Vapor = No information available VALUE-Gas = No information available VALUE-Dust/Mist = No information available

LC50/Inhalation/mouse

VALUE-Vapor = No information available VALUE - Gas = No information available VALUE - Dust/Mist = No information available

Symptoms

Skin Contact:	Causes skin irritation. Moderately irritating to the skin.		
Eye Contact:	Causes eye irritation. Moderately irritating to the eyes.		
Inhalation	Irritating to respiratory system		
Ingestion	Health injuries are not known or expected under normal use.		
Aspiration hazard	No information available		
Delayed and immediate effects as	well as chronic effects from short and long-term exposure		
Chronic Toxicity	No information available		
Sensitization:	No information available		

Mutagenic Effects:

No information available

Carcinogenic effects:

Not considered carcinogenic

Components	IARC	ACGIH - Carcinogens	NTP	OSHA HCS - Carcinogens	Australia - Notifiable Carcinogenic Substances	Australia - Prohibited Carcinogenic Substances
Calcium Saccharate	Not listed	Not listed	Not listed	Not listed	Not listed	Not listed

Reproductive toxicity	No data is available
Reproductive Effects:	No information available
Developmental Effects:	No information available
Teratogenic Effects:	No information available
Specific Target Organ Toxicity	
STOT - single exposure	Respiratory system.
STOT - repeated exposure	No information available
Target Organs:	No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Ecotoxicity effects:	No data available.
Persistence and degradability:	No information available
Bioaccumulative potential:	No information available
Mobility:	No information available

13. DISPOSAL CONSIDERATIONS

Disposal Methods

Waste from residues / unused products:

Waste must be disposed of in accordance with Federal, State and Local regulation.

Contaminated packaging:

Empty containers should be taken for local recycling, recovery or waste disposal

Components	RCRA - F Series Wastes	RCRA - K Series Wastes	RCRA - P Series Wastes	RCRA - U Series Wastes
Calcium Saccharate	None	None	None	None

14. TRANSPORT INFORMATION

DOT

14. TRANSPORT INFORMATION

	14. IRANSPORT	INFO
UN-No:	Not Regulated	
Proper Shipping Name:	No information available	
Hazard Class:	No information available	
Subsidiary Risk:	No information available	
	None	
Packing Group:		
ERG No:	No information available	
Marine Pollutant	No data available	
DOT RQ (lbs):	No information available	
Special Provisions	No Information available	
Symbol(s):	No information available	
TDG (Canada)		
· · ·	Not Dogulated	
UN-No:	Not Regulated	
Proper Shipping Name:	No information available	
Hazard Class:	No information available	
Subsidiary Risk:	No information available	
Packing Group:	No information available	
Marine Pollutant	No Information available	
ADR		
ADR		
UN-No:	Not Regulated	
Proper Shipping Name:	No information available	
Hazard Class:	No information available	
Packing Group:	No information available	
Subsidiary Risk:	No information available	
IMO / IMDG		
UN-No:	Not Regulated	
Proper Shipping Name:	No information available	
Hazard Class:	No information available	
Subsidiary Risk:	No information available	
Packing Group:	No information available	
Marine Pollutant	No information available	
RID		
	Not Dogulated	
UN-No:	Not Regulated	
Proper Shipping Name:	No information available	
Hazard Class:	No information available	
Subsidiary Risk:	No information available	
Packing Group:	No information available	
ICAO		
UN-No:	Not Regulated	
	No information available	
Proper Shipping Name:		
Hazard Class:	No information available	
Subsidiary Risk:	No information available	
Packing Group:	No information available	
ΙΑΤΑ		
UN-No:	Not Regulated	
	No information available	
Proper Shipping Name:		
Hazard Class:	No information available	
Subsidiary Risk:	No information available	
Packing Group:	No information available	
ERG Code:	No information available	
Special Provisions	No information available	

Special Provisions

No information available

15. REGULATORY INFORMATION

International Inventories

Components	U.S. TSCA	KOREA KECL	Philippines (PICCS)	Japan ENCS	CHINA	Australia (AICS)	EINECS-No.
Calcium Saccharate	Not Listed	Not present	Not present	Not present	Not present	Present	Not present

U.S. Regulations

California Prop. 65: Safe Drinking Water and Toxic Enforcement Act of 1986.

Chemicals Known to the State of California to Cause Cancer:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Chemicals Known to the State of California to Cause Reproductive Toxicity:

This product does not contain a chemical requiring a warning under California Prop. 65. (See table below)

Components	Carcinogen	Developmental Toxicity		Female Reproductive Toxicity:
Calcium Saccharate	Not Listed	Not Listed	Not Listed	Not Listed

CERCLA/SARA

Components	CERCLA - Hazardous	Section 302 Extremely	Section 302 Extremely	Section 313 -	Section 313 - Reporting
-	Substances and their	Hazardous	Hazardous	Chemical Category	de minimis
	Reportable Quantities	Substances and TPQs	Substances and RQs		
Calcium Saccharate	None	None	None	None	None

U.S. TSCA

	TSCA Section 5(a)2 - Chemicals With Significant New Use Rules (SNURS)	TSCA 8(d) -Health and Safety Reporting
Calcium Saccharate	Not Applicable	Not Applicable

Canada

WHMIS hazard class:

D2B Toxic materials

Canada Controlled Products Regulation:

This product has been classified according to the hazard criteria of the CPR (Controlled Products Regulation) and the MSDS contains all of the information required by the CPR.

Inventory

Components	Canada (DSL)	Canada (NDSL)
Calcium Saccharate	Not Listed	Not Listed

Components	CEPA Schedule I - Toxic Substances
Calcium Saccharate	Not listed

COMPONENTS CEPA - 20°	10 Greenhouse Gases Subject to Mandatory Reporting
Calcium Saccharate Not listed	

EU Classification

R-phrase(s)

R36/37/38 - Irritating to eyes, respiratory system and skin.

<u>S</u> -phrase(s) S37 - Wear suitable gloves.

S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Components	Classification	Concentration Limits:	Safety Phrases
Calcium Saccharate		No information	

The product is classified in accordance with Annex VI to Directive 67/548/EEC

Indication of danger:

Xi - Irritant.



16. OTHER INFORMATION

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03/31/2016

03/31/2016

Sonia Owen

Preparation Date: Revision Date: Prepared by:

Disclaimer:

All chemicals may pose unknown hazards and should be used with caution. This Safety Data Sheet (SDS) applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. The physical properties reported in this SDS are obtained from the literature and do not constitute product specifications. Information contained herein does not constitute a warranty, whether expressed or implied, as to the safety, merchantability or fitness of the goods for a particular purpose. Spectrum Chemicals & Laboratory Products, Inc. assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Spectrum assumes no responsibility for the completeness or accuracy of the information contained herein.

End of Safety Data Sheet