

SAFETY DATA SHEET

1. Identification

Product identifier CALCIUM HYPOCHLORITE 65% GRAN IMPORTED

Other means of identification None.

Recommended use ALL PROPER AND LEGAL PURPOSES

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company name Brenntag Southwest, Inc. Address 610 Fisher Road

Longview, TX 75604

Telephone903-759-7151E-mailNot available.

Emergency phone number 800-424-9300 CHEMTREC

2. Hazard(s) identification

Physical hazardsOxidizing solidsCategory 2Health hazardsAcute toxicity, oralCategory 4Skin corrosion/irritationCategory 1

Serious eye damage/eye irritation Category 1
Hazardous to the aquatic environment, acute Category 1

Environmental hazards Hazardous to the aquatic environment, acute

hazard

Hazardous to the aquatic environment, Category 1

long-term hazard

OSHA defined hazards Not classified.

Label elements



Signal word Danger

Hazard statement May intensify fire; oxidizer. Harmful if swallowed. Causes severe skin burns and eye damage.

Causes serious eye damage. Very toxic to aquatic life. Very toxic to aquatic life with long lasting

effects

Precautionary statement

Prevention Keep away from heat. Keep/Store away from clothing/combustible materials. Take any precaution

to avoid mixing with combustibles. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Avoid release to the environment. Wear eye protection/face protection.

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

Response If swallowed: Rinse mouth. Do NOT induce vomiting. If on skin (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower. If inhaled: Remove person to fresh air and keep comfortable for breathing. 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/doctor. Wash contaminated clothing before reuse. In case of fire: Use appropriate media to

extinguish. Collect spillage.

Storage Store locked up.

Disposal Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise

None known.

classified (HNOC)

Supplemental information 22% of the mixture consists of component(s) of unknown acute oral toxicity. 26% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 26% of the

mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

3. Composition/information on ingredients

Mixtures

Chemical name	Common name and synonyms	CAS number	%
HYPOCHLOROUS ACID, CALCIUM SALT (2:1)		7778-54-3	65
CALCIUM CHLORATE		10137-74-3	2
CALCIUM HYDROXIDE (CA(OH)2)		1305-62-0	2
CARBONIC ACID CALCIUM SALT (1:1)		471-34-1	2
Other components below reportable levels			29

^{*}Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact IF ON CLOTHING: rinse immediately contaminated clothing and skin with plenty of water before

removing clothes. Rinse skin with water/shower. Call a physician or poison control center immediately. Chemical burns must be treated by a physician. Wash contaminated clothing before

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eye contact

present and easy to do. Continue rinsing. Call a physician or poison control center immediately.

Call a physician or poison control center immediately. Rinse mouth. Do not induce vomiting. If

vomiting occurs, keep head low so that stomach content doesn't get into the lungs.

Most important symptoms/effects, acute and delayed

Indication of immediate medical attention and special

treatment needed

Ingestion

Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.

Provide general supportive measures and treat symptomatically. Chemical burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

General information Take off all contaminated clothing immediately. Contact with combustible material may cause fire. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media

Unsuitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

Special protective equipment

Greatly increases the burning rate of combustible materials. Containers may explode when heated. During fire, gases hazardous to health may be formed.

and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions

General fire hazards

Specific methods

In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers.

Cool containers exposed to flames with water until well after the fire is out. May intensify fire; oxidizer. Contact with combustible material may cause fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep away from clothing and other combustible materials. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

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Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Ventilate the contaminated area. Stop the flow of material, if this is without risk. Absorb in vermiculite, dry sand or earth and place into containers.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Minimize dust generation and accumulation. Prevent entry into waterways, sewer, basements or confined areas. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal. Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. Wear appropriate protective equipment and clothing during clean-up.

Environmental precautions

Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. Inform appropriate managerial or supervisory personnel of all environmental releases.

7. Handling and storage

Precautions for safe handling

Minimize dust generation and accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Keep away from heat. Keep away from clothing and other combustible materials. Take any precaution to avoid mixing with combustibles. Provide adequate ventilation. Do not get in eyes, on skin, or on clothing. Avoid prolonged exposure. Do not taste or swallow. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities Store locked up. Keep away from heat. Store in a cool, dry place out of direct sunlight. Store in original tightly closed container. Store in a well-ventilated place. Do not store near combustible materials. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

Components	for Air Contaminants (29 CFR 1910.1000) Type	Value	Form	
CALCIUM HYDROXIDE (CA(OH)2) (CAS 1305-62-0)	PEL	5 mg/m3	Respirable fraction.	
,		15 mg/m3	Total dust.	
US. ACGIH Threshold Limit	Values			
Components	Туре	Value		
CALCIUM HYDROXIDE (CA(OH)2) (CAS 1305-62-0)	TWA	5 mg/m3		
US. NIOSH: Pocket Guide to	Chemical Hazards			
Components	Туре	Value	Form	
CALCIUM HYDROXIDE (CA(OH)2) (CAS 1305-62-0)	TWA	5 mg/m3		
CARBONÍC ACID CALCIUM SALT (1:1) (CAS 471-34-1)	TWA	5 mg/m3	Respirable.	
,		10 mg/m3	Total	
logical limit values	No biological exposure limits noted for the ingredient(s).			
oropriate engineering trols	Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation or other engineering controls to maintain airborne levels below recommended exposure limits. I exposure limits have not been established, maintain airborne levels to an acceptable level. Eye wash facilities and emergency shower must be available when handling this product.			

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles) and a face shield. Eye/face protection

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Skin protection

Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove Hand protection

supplier. Frequent change is advisable.

Other Wear appropriate chemical resistant clothing.

In case of insufficient ventilation, wear suitable respiratory equipment. Respiratory protection

Wear appropriate thermal protective clothing, when necessary. Thermal hazards

General hygiene considerations

Keep from contact with clothing and other combustible materials. Remove and wash contaminated clothing promptly. Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

Appearance

Physical state Solid. Form Solid. Color White

SLIGHT CHLORINE Odor

Odor threshold Not available. Not available.

249.57 °F (120.87 °C) estimated / 999 °F (537.22 °C) Melting point/freezing point

Initial boiling point and boiling

range

212 °F (100 °C) estimated

Flash point 999.0 °F (537.2 °C) **Evaporation rate** Not available.

Flammability (solid, gas) Not available. Upper/lower flammability or explosive limits Not available.

Flammability limit - lower

(%)

Flammability limit - upper

Not available.

Not available. Explosive limit - lower (%) Explosive limit - upper (%) Not available.

0.00001 hPa estimated Vapor pressure

Not available. Vapor density Not available. Relative density

Solubility(ies)

Solubility (water) Not available. Partition coefficient Not available.

(n-octanol/water)

Auto-ignition temperature Not available. Not available. **Decomposition temperature** Viscosity Not available.

Other information

Density 19.67 lbs/gal estimated

Not explosive. **Explosive properties**

Flammability class Combustible IIIB estimated **Oxidizing properties** May intensify fire; oxidizer.

2.36 estimated Specific gravity

10. Stability and reactivity

Reactivity Greatly increases the burning rate of combustible materials.

Material is stable under normal conditions. Chemical stability

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Possibility of hazardous

reactions

Hazardous polymerization does not occur.

Conditions to avoid

Heat. Contact with incompatible materials. Combustible material. Reducing agents. Incompatible materials

Hazardous decomposition

products

No hazardous decomposition products are known.

11. Toxicological information

Information on likely routes of exposure

May cause irritation to the respiratory system. Prolonged inhalation may be harmful. Inhalation

Skin contact Causes severe skin burns. Eye contact Causes serious eye damage.

Ingestion Causes digestive tract burns. Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics Burning pain and severe corrosive skin damage. Causes serious eye damage. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including

blindness could result.

Information on toxicological effects

Acute toxicity Harmful if swallowed

Components **Species Test Results**

CALCIUM CHLORATE (CAS 10137-74-3)

<u>Acute</u>

Oral

LD50 Rat 4500 mg/kg

CALCIUM HYDROXIDE (CA(OH)2) (CAS 1305-62-0)

<u>Acute</u> Oral

LD50 Rat 7340 mg/kg

CARBONIC ACID CALCIUM SALT (1:1) (CAS 471-34-1)

Acute

Oral

LD50 Mouse 6450 mg/kg

> Rat 6450 mg/kg

HYPOCHLOROUS ACID, CALCIUM SALT (2:1) (CAS 7778-54-3)

Acute Oral

LD50 Rat 850 mg/kg

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation Causes severe skin burns and eye damage.

Serious eye damage/eye

irritation

Causes serious eye damage.

Respiratory or skin sensitization

Respiratory sensitization Not a respiratory sensitizer.

This product is not expected to cause skin sensitization. Skin sensitization

No data available to indicate product or any components present at greater than 0.1% are Germ cell mutagenicity

mutagenic or genotoxic.

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Carcinogenicity

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

Reproductive toxicity This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Material name: CALCIUM HYPOCHLORITE 65% GRAN IMPORTED 467398 Version #: 03 Revision date: 06-04-2015 Issue date: 05-21-2015 Product #: 602320 From: BRENNTAG SOUTHWEST INC. Thursday, November 12, 2015 To:

Specific target organ toxicity -

repeated exposure

Not classified.

Not an aspiration hazard. Aspiration hazard

Prolonged inhalation may be harmful. Chronic effects

12. Ecological information

Ecotoxicity Very toxic to aquatic life with long lasting effects.

Test Results Components **Species**

CALCIUM HYDROXIDE (CA(OH)2) (CAS 1305-62-0)

Aquatic

LC50 Fish 33.8844 mg/l, 96 hours Zambezi barbel (Clarias gariepinus)

CARBONIC ACID CALCIUM SALT (1:1) (CAS 471-34-1)

Fish LC50 Western mosquitofish (Gambusia affinis) > 56000 mg/l, 96 hours

HYPOCHLOROUS ACID, CALCIUM SALT (2:1) (CAS 7778-54-3)

Aquatic

Crustacea **EC50** Rotifer (Philodina acuticornis) 0.07 mg/l, 48 hours LC50 Fish Atlantic silverside (Menidia menidia) 0.037 mg/l, 96 hours

No data is available on the degradability of this product. Persistence and degradability

Bioaccumulative potential No data available. Mobility in soil No data available.

Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow

this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches

with chemical or used container. Dispose of contents/container in accordance with

local/regional/national/international regulations.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code The waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

14. Transport information

DOT

UN number UN2880

UN proper shipping name CALCIUM HYPOCHLORITE, HYDRATED

Transport hazard class(es)

Class 5.1 Subsidiary risk Ш Packing group

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

ERG number 140

DOT information on packaging may be different from that listed.

^{*} Estimates for product may be based on additional component data not shown.

Product #: 602320 From: BRENNTAG SOUTHWEST INC. To: Thursday, November 12, 2015

DOT



General information IMDG Regulated Marine Pollutant.

15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication

Standard, 29 CFR 1910.1200.

One or more components are not listed on TSCA.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)

HYPOCHLOROUS ACID, CALCIUM SALT (2:1) (CAS Listed.

7778-54-3)

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories Immediate Hazard - Yes

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous No

chemical

SARA 313 (TRI reporting)

Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

(SDWA)

US state regulations

US. California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)

Not listed.

US. Massachusetts RTK - Substance List

CALCIUM CHLORATE (CAS 10137-74-3)

CALCIUM HYDROXIDE (CA(OH)2) (CAS 1305-62-0)

HYPOCHLOROUS ACID, CALCIUM SALT (2:1) (CAS 7778-54-3)

US. New Jersey Worker and Community Right-to-Know Act

CALCIUM CHLORATE (CAS 10137-74-3)

CALCIUM HYDROXIDE (CA(OH)2) (CAS 1305-62-0)

HYPOCHLOROUS ACID, CALCIUM SALT (2:1) (CAS 7778-54-3)

US. Pennsylvania Worker and Community Right-to-Know Law

CALCIUM CHLORATE (CAS 10137-74-3)

CALCIUM HYDROXIDE (CA(OH)2) (CAS 1305-62-0)

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HYPOCHLOROUS ACID, CALCIUM SALT (2:1) (CAS 7778-54-3)

US. Rhode Island RTK

HYPOCHLOROUS ACID, CALCIUM SALT (2:1) (CAS 7778-54-3)

US. California Proposition 65

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	No
Canada	Domestic Substances List (DSL)	No
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	No
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	No
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	No
Korea	Existing Chemicals List (ECL)	No
New Zealand	New Zealand Inventory	No
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	No

^{*}A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

 Issue date
 05-21-2015

 Revision date
 06-04-2015

Version # 03

HMIS® ratings Health: 3

Flammability: 0 Physical hazard: 2

NFPA ratings Health: 3

Flammability: 0 Instability: 0 Special hazards: OX

Disclaimer BNA cannot anticipate all conditions under which this information and its product, or the products

of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written

based on the best knowledge and experience currently available.

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