

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Revision Date: 05/01/15 Date of Issue: 05/01/15

Version: 1.0

#### **SECTION 1: IDENTIFICATION**

<u>Product Identifier</u> <u>Product Form: Mixture</u>

**Product Name:** CAL~FLO Slurry, 5%, 10%, 15%, 20%, 25%, 30%, 35%

**Intended Use of the Product** 

Municipal and industrial water and wastewater treatment for pH, alkalinity, and calcium hardness adjustment. Sludge conditioning,

compaction and volume reduction.

Name, Address, and Telephone of the Responsible Party

Manufacturer

CHEMTRADE LOGISTICS INC. 155 Gordon Baker Road

Suite 300

Toronto, Ontario M2H 3N5 For SDS Info: (416) 496-5856 www.chemtradelogistics.com

**Emergency Telephone Number** 

Emergency Number : Canada: CANUTEC +1-613-996-6666 / US: CHEMTREC +1-800-424-9300

Chemtrade Emergency Contact: (866) 416-4404

For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC - Day or Night

### **SECTION 2: HAZARDS IDENTIFICATION**

### **Classification of the Substance or Mixture**

### Classification (GHS-US)

Skin Irrit. 2 H315 Eye Dam. 1 H318 STOT SE 3 H335 Aquatic Acute 3 H402

Full text of H-phrases: see section 16

Label Elements
GHS-US Labeling

Hazard Pictograms (GHS-US) :





Signal Word (GHS-US) : Danger

Hazard Statements (GHS-US) : H315 - Causes skin irritation

H318 - Causes serious eye damage H335 - May cause respiratory irritation

H402 - Harmful to aquatic life

Precautionary Statements (GHS-US) : P261 - Avoid breathing mist, spray, vapors.

P264 - Wash hands, forearms and face thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear eye protection, protective clothing, protective gloves.

P302+P352 - IF ON SKIN: Wash with plenty of water.

P304+P340 - IF INHALED: Remove person to fresh air and keep at rest in a position

comfortable for breathing.

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER, a doctor. P312 - Call a poison center or doctor if you feel unwell.

 Date of Issue: 05/01/15
 EN (English US)
 SDS#: CHE-5030S
 1/7

# Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

P321 - Specific treatment (see Section 4 on this SDS).

P332+P313 - If skin irritation occurs: Get medical advice/attention.

P362 - Take off contaminated clothing and wash before reuse.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national,

territorial, provincial, and international regulations.

#### **Other Hazards**

Other Hazards Not Contributing to the Classification: May be corrosive to respiratory tract.

<u>Unknown Acute Toxicity (GHS-US)</u> Not available

<b>SECTION 3: COMPOSITION/</b>	INFORMATION ON INGREDIENT	rs	
Name	Product identifier	% (w/w)	Classification (GHS-US)
Water	(CAS No) 7732-18-5	60 - 100	Not classified
Calcium hydroxide	(CAS No) 1305-62-0	5 - 10	Skin Irrit. 2, H315
		10 - 15	Eye Dam. 1, H318
		15 - 40	STOT SE 3, H335
			Aquatic Acute 3, H402

Full text of H-phrases: see section 16

# **SECTION 4: FIRST AID MEASURES**

### **Description of First Aid Measures**

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell. Ventilate the area.

**Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Wash contaminated clothing before reuse. Obtain medical attention if irritation develops or persists.

**Eye Contact:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for at least 60 minutes. Immediately call a POISON CENTER or doctor/physician.

Ingestion: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor/physician.

#### Most Important Symptoms and Effects Both Acute and Delayed

General: Causes serious eye damage. Causes skin irritation. May cause respiratory irritation.

**Inhalation:** May cause respiratory irritation.

Skin Contact: Causes skin irritation.

Eye Contact: Causes serious eye damage. Causes permanent damage to the cornea, iris, or conjunctiva. Can cause blindness.

**Ingestion:** Ingestion is likely to be harmful or have adverse effects. May cause irritation of the gastrointestinal tract.

Chronic Symptoms: None expected under normal conditions of use.

#### Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

#### **SECTION 5: FIRE-FIGHTING MEASURES**

# **Extinguishing Media**

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable Extinguishing Media: Do not use a heavy water stream. A heavy water stream may spread burning liquid.

#### Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Product is not flammable. **Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

Date of Issue: 05/01/15 EN (English US) SDS#: CHE-5030S 2/7

<sup>\*</sup> A range of concentration as prescribed by Controlled Products Regulations has been used where necessary, due to varying composition. The specific chemical identity and/or exact percentage of composition has been withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200].

#### Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## **Advice for Firefighters**

Precautionary Measures Fire: Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. Do not breathe fumes from fires or vapors from decomposition. Do not allow run-off from firefighting to enter drains or water sources.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

Hazardous Combustion Products: Oxides of calcium.

#### **Reference to Other Sections**

Refer to section 9 for flammability properties.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

#### Personal Precautions, Protective Equipment and Emergency Procedures

General Measures: Avoid all contact with skin, eyes, or clothing. Avoid breathing vapor, mist, or spray.

#### For Non-Emergency Personnel

Protective Equipment: Use appropriate personal protection equipment (PPE).

Emergency Procedures: Evacuate unnecessary personnel.

**For Emergency Personnel** 

**Protective Equipment:** Equip cleanup crew with proper protection.

Emergency Procedures: Evacuate unnecessary personnel. Stop leak if safe to do so. Ventilate area.

#### **Environmental Precautions**

Prevent entry to sewers and public waters. Contact competent authorities after a spill.

#### Methods and Material for Containment and Cleaning Up

For Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Cautiously neutralize spilled liquid. Absorb and/or contain spill with inert material, then place in suitable container. Dispose in a safe manner in accordance with local/national regulations. Contact competent authorities after a spill.

#### **Reference to Other Sections**

See heading 8, Exposure Controls and Personal Protection. Concerning disposal elimination after cleaning, see item 13.

# **SECTION 7: HANDLING AND STORAGE**

#### **Precautions for Safe Handling**

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling.

## **Conditions for Safe Storage, Including Any Incompatibilities**

**Storage Conditions:** Store in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

**Specific End Use(s)** Municipal and industrial water and wastewater treatment for pH, alkalinity, and calcium hardness adjustment. Sludge conditioning, compaction and volume reduction.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Control Parameters**

For substances listed in section 3 that are not listed here, there are no established Exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), NIOSH (REL), OSHA (PEL), Canadian provincial governments, or the Mexican government.

Calcium hydroxide (130	5-62-0)	
Mexico	OEL TWA (mg/m³)	5 mg/m³
USA ACGIH	ACGIH TWA (mg/m³)	5 mg/m³
USA OSHA	OSHA PEL (TWA) (mg/m³)	15 mg/m³ (total dust)
		5 mg/m³ (respirable fraction)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	5 mg/m³
Alberta	OEL TWA (mg/m³)	5 mg/m³
British Columbia	OEL TWA (mg/m³)	5 mg/m³
Manitoba	OEL TWA (mg/m³)	5 mg/m <sup>3</sup>

 Date of Issue: 05/01/15
 EN (English US)
 SDS#: CHE-5030S
 3/7

#### Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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New Brunswick	OEL TWA (mg/m³)	5 mg/m <sup>3</sup>
Newfoundland & Labrador	OEL TWA (mg/m³)	5 mg/m³
Nova Scotia	OEL TWA (mg/m³)	5 mg/m³
Nunavut	OEL STEL (mg/m³)	10 mg/m³
Nunavut	OEL TWA (mg/m³)	5 mg/m³
Northwest Territories	OEL STEL (mg/m³)	10 mg/m³
Northwest Territories	OEL TWA (mg/m³)	5 mg/m³
Ontario	OEL TWA (mg/m³)	5 mg/m³
Prince Edward Island	OEL TWA (mg/m³)	5 mg/m³
Québec	VEMP (mg/m³)	5 mg/m³
Saskatchewan	OEL STEL (mg/m³)	10 mg/m³
Saskatchewan	OEL TWA (mg/m³)	5 mg/m³
Yukon	OEL STEL (mg/m³)	10 mg/m³
Yukon	OEL TWA (mg/m³)	5 mg/m³

#### **Exposure Controls**

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Protective goggles. Gloves. Protective clothing. Insufficient ventilation: wear respiratory protection. **Materials for Protective Clothing:** Chemically resistant materials and fabrics.

Hand Protection: Wear chemically resistant protective gloves.

Eye Protection: Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.

Respiratory Protection: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Other Information: When using, do not eat, drink or smoke.

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

information on Basic Physical and Chemi	<u>icai Prope</u>	erties .
Physical State	:	Liquid
Appearance	:	White
Odor	:	Odorless
Odor Threshold	:	Not available
pH	:	12.44

**Melting Point** Not applicable **Freezing Point** 0 °C (32 °F) **Boiling Point** Not available **Flash Point** Not available Not available **Auto-ignition Temperature Decomposition Temperature** Not available Flammability (solid, gas) Not available **Lower Flammable Limit** Not available **Upper Flammable Limit** Not available Not available **Vapor Pressure** Relative Vapor Density at 20 °C Not available **Relative Density** Not available **Specific Gravity** 1.03 - 1.24 Solubility Not available **Partition Coefficient: N-Octanol/Water** Not available

Viscosity : Not available

Explosion Data – Sensitivity to Mechanical Impact : Not expected to present an explosion hazard due to mechanical impact.

 Date of Issue: 05/01/15
 EN (English US)
 SDS#: CHE-5030S
 4/7

Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

**Explosion Data – Sensitivity to Static Discharge** : Not expected to present an explosion hazard due to static discharge.

#### **SECTION 10: STABILITY AND REACTIVITY**

Reactivity: Hazardous reactions will not occur under normal conditions.

Chemical Stability: Stable under normal conditions.

Possibility of Hazardous Reactions: Hazardous polymerization will not occur.

Conditions to Avoid: Direct sunlight. Extremely high or low temperatures. Incompatible materials.

**Incompatible Materials:** Strong acids. Strong bases. Strong oxidizers.

**Hazardous Decomposition Products:** Acrid smoke and irritating fumes. Oxides of calcium.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

# **Information on Toxicological Effects - Product**

Acute Toxicity: Not classified LD50 and LC50 Data: Not available

Skin Corrosion/Irritation: Causes skin irritation.

pH: 12.44

**Serious Eye Damage/Irritation:** Causes serious eye damage.

pH: 12.44

Respiratory or Skin Sensitization: Not classified

Germ Cell Mutagenicity: Not classified

**Teratogenicity:** Not classified **Carcinogenicity:** Not classified

Specific Target Organ Toxicity (Repeated Exposure): Not classified

Reproductive Toxicity: Not classified

Specific Target Organ Toxicity (Single Exposure): May cause respiratory irritation.

Aspiration Hazard: Not classified

**Symptoms/Injuries After Inhalation:** May cause respiratory irritation.

Symptoms/Injuries After Skin Contact: Causes skin irritation.

Symptoms/Injuries After Eye Contact: Causes serious eye damage. Causes permanent damage to the cornea, iris, or conjunctiva. Can

cause blindness.

Symptoms/Injuries After Ingestion: Ingestion is likely to be harmful or have adverse effects. May cause irritation of the

gastrointestinal tract.

Chronic Symptoms: None expected under normal conditions of use.

#### Information on Toxicological Effects - Ingredient(s)

LD50 and LC50 Data:

Calcium hydroxide (1305-62-0)	
LD50 Oral Rat	7340 mg/kg
Water (7732-18-5)	
LD50 Oral Rat	> 90000 mg/kg

## **SECTION 12: ECOLOGICAL INFORMATION**

#### **Toxicity**

Ecology - General: Harmful to aquatic life.

Calcium hydroxide (1305-62-0)	
LC50 Fish 1	50.6 mg/l

#### **Persistence and Degradability**

CAL~FLO Slurry, 5%, 10%, 15%, 20%, 25%	%, 30%, 35%
Persistence and Degradability	Not established.

# **Bioaccumulative Potential**

CAL~FLO Slurry, 5%, 10%, 15%, 20%, 25%, 30%, 35%		
<b>Bioaccumulative Potential</b>	ioaccumulative Potential Not established.	
Calcium hydroxide (1305-62-0)		
BCF Fish 1	(no bioaccumulation)	

Date of Issue: 05/01/15 EN (English US) SDS#: CHE-5030S 5/7

#### Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

## Mobility in Soil Not available

#### **Other Adverse Effects**

Other Information: Avoid release to the environment.

#### **SECTION 13: DISPOSAL CONSIDERATIONS**

**Sewage Disposal Recommendations:** This material is hazardous to the aquatic environment. Keep out of sewers and waterways. **Waste Disposal Recommendations:** Dispose of waste material in accordance with all local, regional, national, provincial, territorial and international regulations.

## **SECTION 14: TRANSPORT INFORMATION**

14.1 In Accordance with DOT	Not regulated for transport
14.2 In Accordance with IMDG	Not regulated for transport
14.3 In Accordance with IATA	Not regulated for transport
14.4 In Accordance with TDG	Not regulated for transport

## **SECTION 15: REGULATORY INFORMATION**

### **US Federal Regulations**

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CAL~FLO Slurry, 5%, 10%, 15%, 20%, 25%, 30%, 35%		
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard		
Calcium hydroxide (1305-62-0)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		
SARA Section 311/312 Hazard Classes Immediate (acute) health hazard		
Water (7732-18-5)		
Listed on the United States TSCA (Toxic Substances Control Act) inventory		

#### **US State Regulations**

#### Calcium hydroxide (1305-62-0)

U.S. - Massachusetts - Right To Know List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

### **Canadian Regulations**

CAL~FLO Slurry, 5%, 10%,	15%, 20%, 25%, 30%, 35%	
WHMIS Classification	Class D Division 2 Subdivision B - Toxic material causing other toxic effects	
Calcium hydroxide (1305-	62-0)	
Listed on the Canadian DS	Listed on the Canadian DSL (Domestic Substances List)	
Listed on the Canadian IDL (Ingredient Disclosure List)		

WHMIS Classification Class D Division 2 Subdivision B - Toxic material causing other toxic effects

#### Water (7732-18-5)

IDL Concentration 1 %

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification Uncontrolled product according to WHMIS classification criteria

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

# SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision date** : 05/01/15

Other Information : This document has been prepared in accordance with the SDS requirements of the OSHA

Hazard Communication Standard 29 CFR 1910.1200.

**GHS Full Text Phrases:** 

Aquatic Acute 3 Hazardous to the aquatic environment - Acute Hazard Category 3
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Date of Issue: 05/01/15 EN (English US) SDS#: CHE-5030S 6/7

#### Safety Data Sheet

According to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Eye Dam. 1	Serious eye damage/eye irritation Category 1	
Skin Irrit. 2	Skin corrosion/irritation Category 2	
STOT SE 3	Specific target organ toxicity (single exposure) Category 3	
H315	Causes skin irritation	
H318	Causes serious eye damage	
H335	May cause respiratory irritation	
H402	Harmful to aquatic life	

## Party Responsible for the Preparation of This Document

CHEMTRADE LOGISTICS, INC. For SDS Info: (416) 496-5856

Handle product with due care and avoid unnecessary contact. This information is supplied under U.S. OSHA'S "Right to Know" (29 CFR 1910.1200) and Canada's WHMIS regulations. Although certain hazards are described herein, we cannot guarantee these are the only hazards that exist. The information contained herein is based on data available to us and is believed to be true and accurate but it is not offered as a product specification. No warranty, expressed or implied, regarding the accuracy of this data, the hazards connected with the use of the product, or the results to be obtained from the use thereof, is made and Chemtrade and its affiliates assume no responsibility. Chemtrade is a member of the CIAC (Chemistry Industry Association of Canada) and adheres to the codes and principles of Responsible Care™.



Chemtrade North America SDS Template

Date of Issue: 05/01/15 EN (English US) SDS#: CHE-5030S 7/7