Issuing Date No data available

Revision Date 19-May-2015

Revision Number 1



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1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Name PRO CHLOR TABS

Other means of identification

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Pesticide - Non-Aerosol

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name GWTC, Inc.

Supplier Address 2239 FM 920

Weatherford

TX 76088 US

Supplier Phone Number Phone:8175948087

Fax:8175940815

Contact Phone8175948087

Supplier Email andyw@gwtcinc.com

Emergency telephone number

2. HAZARDS IDENTIFICATION

Classification

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

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 1 Sub-category B
Serious eye damage/eye irritation	Category 1
Oxidizing solids	Category 2



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GHS Label elements, including precautionary statements

Danger

Emergency Overview

Hazard Statements

Signal word

Harmful if swallowed

Causes severe skin burns and eye damage

May intensify fire; oxidizer



Appearance White

Physical state Pellets Solid

Odor Chlorine

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

Wear protective gloves/protective clothing/eve protection/face protection

Keep away from heat/sparks/open flames/hot surfaces. - No smoking

Keep/Store away from clothing/ combustible materials

Take any precaution to avoid mixing with combustibles

Precautionary Statements - Response

Immediately call a POISON CENTER or doctor/physician

Specific treatment (see supplemental first aid instructions on this label)

Eyes

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

Skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower Wash contaminated clothing before reuse

Inhalation

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

Ingestion

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Do NOT induce vomiting

Fire

In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage



Store locked up

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Not applicable

Unknown Toxicity

5% of the mixture consists of ingredient(s) of unknown toxicity

Other information

Very toxic to aquatic life

Interactions with Other Chemicals

No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

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Chemical Name	CAS No	Weight-%	Trade Secret
Calcium hypochlorite, hydrated or hydrated	283157-58-4	40 - 70	*
mixtures			
Calcium hydroxide	1305-62-0	1 - 5	*
Calcium chloride	10043-52-4	1 - 5	*
Calcium carbonate	471-34-1	1 - 5	*

^{*}The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

<u>General Advice</u> Immediate medical attention is required. Show this safety data sheet to the doctor

in attendance.

Eye contactRinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Seek immediate

medical attention/advice.

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

contaminated clothes and shoes. Seek immediate medical attention/advice.

Inhalation Remove to fresh air. If breathing has stopped, give artificial respiration. Get

medical attention immediately. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary

edema may occur. Get medical attention immediately if symptoms occur.

Ingestion Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water.

Never give anything by mouth to an unconscious person. Call a physician or

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poison control center immediately.

Self-protection of the first aider Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

Most important symptoms and effects, both acute and delayed

Most Important Symptoms and Burning sensation.

Effects

Indication of any immediate medical attention and special treatment needed

Notes to Physician

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.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water. Do not use dry chemicals or foams. CO 2 or Halon may provide limited control. Flood fire area with water from a distance. Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out.

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 gases and vapors. These substances will accelerate burning when involved in a fire. Some may decompose explosively when heated or involved in a fire. May ignite combustibles (wood paper, oil, clothing, etc.). Runoff may create fire or explosion hazard. Keep product and empty container away from heat and sources of ignition.

Corrosive: Other--Solid **Uniform Fire Code**

Oxidizer: Class 2--Solid

Hazardous Combustion Products

Carbon oxides.

Explosion Data

Sensitivity to Mechanical Impact No.

Sensitivity to Static Discharge Yes.

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. Do not move cargo or vehicle if cargo has been exposed to heat. Some are oxidizers and may ignite combustibles (wood, paper, oil, clothing, etc.). Move containers from fire area if you can do it without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn.



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6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions Attention! Corrosive material. Avoid contact with skin, eyes or clothing. Ensure adequate

ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. See section 8 for more

information. Stop leak if you can do it without risk.

Other Information Refer to protective measures listed in Sections 7 and 8. Keep combustibles (wood, paper,

oil, etc) away from spilled material. DO NOT GET WATER INSIDE CONTAINERS.

Ventilate the area.

Environmental precautions

Environmental precautions Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage

if safe to do so. Should not be released into the environment. Do not allow to enter into soil/subsoil. Prevent product from entering drains. Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for containment Prevent further leakage or spillage if safe to do so. Cover with DRY earth, DRY sand or

other non-combustible material followed with plastic sheet to minimize spreading or contact

with rain.

Methods for cleaning up Pick up and transfer to properly labeled containers. Cover powder spill with plastic sheet or

tarp to minimize spreading and keep powder dry. With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. Flush area with

flooding quantities of water. Prevent product from entering drains.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory

equipment. Use only with adequate ventilation and in closed systems. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Use personal protection equipment. Keep away from heat/sparks/open flames/hot surfaces.

- No smoking.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Protect from

moisture. Store locked up. Keep out of the reach of children. Store away from other materials. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Store in accordance with the particular national

regulations. Store in accordance with local regulations.

Incompatible Products Acids. Bases. Oxidizing agent. Organic material. Combustible material. Hydrocarbons.



8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium hydroxide	TWA: 5 mg/m ³	TWA: 15 mg/m³ total dust	TWA: 5 mg/m ³
1305-62-0		TWA: 5 mg/m ³ respirable fraction	
		(vacated) TWA: 5 mg/m ³ not in	
		effect as a result of	
		reconsideration	
Calcium carbonate	-	TWA: 15 mg/m ³	TWA: 5 mg/m ³ respirable dust
471-34-1		TWA: 5 mg/m ³	TWA: 10 mg/m ³ total dust
		(vacated) TWA: 15 mg/m ³	-
		(vacated) TWA: 5 mg/m ³	

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits Immediately Dangerous to Life or Health

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992) See section 15 for national exposure control parameters

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection Face protection shield.

Skin and body protection Wear protective gloves and protective clothing. Long sleeved clothing. Chemical resistant

apron. Impervious gloves. Wear fire/flame resistant/retardant clothing.

Respiratory protection No protective equipment is needed under normal use conditions. If exposure limits are

exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. For environmental protection, remove and wash all

contaminated protective equipment before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical state Pellets, Solid

Appearance White Odor Chlorine

Color No information available Odor Threshold No information available

PropertyValuesRemarks MethodpHNo data availableNone known



Melting / freezing point No data available None known No data available Boiling point / boiling range None known **Flash Point** No data available None known **Evaporation Rate** No data available None known Flammability (solid, gas) No data available None known Flammability Limit in Air Upper flammability limit No data available Lower flammability limit No data available

Vapor pressure No data available None known Vapor density No data available None known No data available None known **Specific Gravity** None known **Water Solubility** Soluble in water No data available None known Solubility in other solvents Partition coefficient: n-octanol/waterNo data available None known **Autoignition temperature** No data available None known **Decomposition temperature** No data available None known Kinematic viscosity No data available None known **Dvnamic viscosity** No data available None known

Explosive properties

Oxidizing properties

No data available
No data available
No data available

Other Information

Softening PointNo data availableVOC Content (%)No data availableParticle SizeNo data available

Particle Size Distribution

10. STABILITY AND REACTIVITY

Reactivity

Oxidizer. No data available.

Chemical stability

Stable under recommended storage conditions. May cause fire or explosion; strong oxidizer.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization

Hazardous polymerization does not occur.

Conditions to avoid

Exposure to air or moisture over prolonged periods. Heat, flames and sparks. Incompatible materials.

Incompatible materials

Acids. Bases. Oxidizing agent. Organic material. Combustible material. Hydrocarbons.

Hazardous Decomposition Products

Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation Specific test data for the substance or mixture is not available. Corrosive by inhalation.

(based on components). Inhalation of corrosive fumes/gases may cause coughing, choking, headache, dizziness, and weakness for several hours. Pulmonary edema may occur with tightness in the chest, shortness of breath, bluish skin, decreased blood pressure, and



increased heart rate. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary edema can be fatal. May cause irritation of respiratory tract.

Eye contact Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Corrosive to the eyes and may cause severe damage including blindness.

Causes serious eye damage. May cause irreversible damage to eyes.

Skin contact Specific test data for the substance or mixture is not available. Corrosive. (based on

components). Causes burns.

Ingestion Specific test data for the substance or mixture is not available. Causes burns. (based on

components). Ingestion causes burns of the upper digestive and respiratory tracts. May cause severe burning pain in the mouth and stomach with vomiting and diarrhea of dark blood. Blood pressure may decrease. Brownish or yellowish stains may be seen around the mouth. Swelling of the throat may cause shortness of breath and choking. May cause lung damage if swallowed. May be fatal if swallowed and enters airways. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea,

vomiting and diarrhea. Harmful if swallowed.

Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Calcium hypochlorite, hydrated or hydrated mixtures 283157-58-4	= 850 mg/kg(Rat)	> 2000 mg/kg(Rabbit)	-
Calcium hydroxide 1305-62-0	= 7340 mg/kg (Rat)	-	-
Calcium chloride 10043-52-4	= 1000 mg/kg (Rat)	= 2630 mg/kg (Rat)	-
Calcium carbonate 471-34-1	= 6450 mg/kg (Rat)	-	-

Information on toxicological effects

Symptoms Erythema (skin redness). Burning. May cause blindness. Coughing and/ or wheezing.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Calcium hypochlorite,		Group 3		
hydrated or hydrated		-		
mixtures				
283157-58-4				

IARC (International Agency for Research on Cancer) Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity No information available.

STOT - single exposure No information available.

STOT - repeated exposureNo information available.

Chronic Toxicity

No known effect based on information supplied. 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. Carcinogenic potential is unknown.

Target Organ Effects Respiratory system. Eyes. Skin. Gastrointestinal tract (GI). Lungs.

Aspiration Hazard No information available.

Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

ATEmix (oral) 1,178.00 mg/kg ATEmix (dermal) 87,667.00 mg/kg (ATE)

12. ECOLOGICAL INFORMATION

Ecotoxicity

Very toxic to aquatic life.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Calcium hydroxide 1305-62-0		96h LC50: = 160 mg/L (Gambusia affinis)		
Calcium chloride 10043-52-4		96h LC50: = 10650 mg/L (Lepomis macrochirus)		48h LC50: = 2400 mg/L

Persistence and Degradability

No information available.

Bioaccumulation

No information available

Other adverse effects

No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR

261).

Contaminated Packaging Dispose of contents/containers in accordance with local regulations.

US EPA Waste Number D001

California Hazardous Waste Codes 232

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
Calcium hydroxide 1305-62-0	Corrosive



14. TRANSPORT INFORMATION

DOT

Proper Shipping Name CONSUMER COMMODITY

Hazard Class ORM-D

Description CONSUMER COMMODITY, ORM-D

TDG

UN-No. UN2880

Proper Shipping Name CALCIUM HYPOCHLORITE, HYDRATED MIXTURE

Hazard Class 5.1 Packing Group

Description UN2880, CALCIUM HYPOCHLORITE, HYDRATED MIXTURE, 5.1, II

<u>MEX</u>

UN-No. UN2880

Proper Shipping Name CALCIUM HYPOCHLORITE, HYDRATED

Hazard Class 5.1 Packing Group

Description UN2880, CALCIUM HYPOCHLORITE, HYDRATED, 5.1, II

ICAO

UN-No. UN2880

Proper Shipping Name CALCIUM HYPOCHLORITE, HYDRATED

Hazard Class 5.1 Packing Group

Description UN2880, CALCIUM HYPOCHLORITE, HYDRATED, 5.1, II

IATA

UN-No. UN2880

Proper Shipping Name CALCIUM HYPOCHLORITE, HYDRATED

Hazard Class 5.1 Packing Group II

Description UN2880, CALCIUM HYPOCHLORITE, HYDRATED, 5.1, II

IMDG/IMO

UN-No. UN2880

Proper Shipping Name CALCIUM HYPOCHLORITE, HYDRATED

Hazard Class 5.1
Packing Group II
EmS-No. F-H, S-Q

Marine Pollutant Product is a marine pollutant according to the criteria set by IMDG/IMO

Description UN2880, CALCIUM HYPOCHLORITE, HYDRATED, 5.1, II

RID

UN-No. UN2880

Proper Shipping Name CALCIUM HYPOCHLORITE, HYDRATED

Hazard Class 5.1
Packing Group II
Classification code 02

Description UN2880, CALCIUM HYPOCHLORITE, HYDRATED, 5.1, II

ADR

UN-No. UN2880

Proper Shipping Name CALCIUM HYPOCHLORITE, HYDRATED

Hazard Class 5.1
Packing Group II
Classification code 02

Tunnel restriction code (E)

Description UN2880, CALCIUM HYPOCHLORITE, HYDRATED, 5.1, II

ADN

UN-No. UN2880

Proper Shipping Name CALCIUM HYPOCHLORITE, HYDRATED

Hazard Class 5.1
Packing Group II
Classification code O2
Special Provisions 314, 322

Description UN2880, CALCIUM HYPOCHLORITE, HYDRATED, 5.1, II

Hazard Labels 5.1 Limited Quantity 1 KG

15. REGULATORY INFORMATION

International Inventories

TSCA Complies

DSL All components are listed either on the DSL or NDSL.

IECSC -

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 No
Fire Hazard Yes
Sudden release of pressure hazard Yes
Reactive Hazard Yes

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Calcium hypochlorite, hydrated or hydrated mixtures 283157-58-4	10 lb			Х

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances	RQ
		RQs	
Calcium hypochlorite, hydrated or hydrated mixtures 283157-58-4	10 lb		RQ 10 lb final RQ RQ 4.54 kg final RQ

US State Regulations

California Proposition 65



This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

.

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Calcium hypochlorite, hydrated or hydrated mixtures 283157-58-4	X	X	Х		
Calcium chlorate 10137-74-3	X	X	X		
Calcium hydroxide 1305-62-0	X	X	X		
Calcium carbonate 471-34-1	X	X	Х		

International Regulations

Mexico

National occupational exposure limits

Component	Carcinogen Status	Exposure Limits
Calcium hydroxide 1305-62-0 (1 - 5)		Mexico: TWA 5 mg/m ³
Calcium carbonate 471-34-1 (1 - 5)		Mexico: TWA 10 mg/m ³ Mexico: STEL 20 mg/m ³

Mexico - Occupational Exposure Limits - Carcinogens

16	OTHER	INICODA	AATION	
10.	UIDER	INFURI	ЛАНОМ	

NFPA Health Hazards 3 Flammability 0 Instability 1 Physical and

Chemical Hazards

HMIS Health Hazards 3 Flammability 0 Physical Hazard 1 P

Personal Protection

Χ

Prepared By Product Stewardship

23 British American Blvd. Latham, NY 12110

1-800-572-6501 19-May-2015

Revision Date 19-May-2015

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