

1. Identification of the Product and Manufacturer and/or Supplier:

Trade Name or Product No.:	Chemlogic Clay-Chlor-PC
Chemical Name:	Clay Stabilizer
Chemical Formula:	Confidential Mixture
CAS No.:	Not Applicable; Mixture
Synonym(s):	Not Applicable
Chemical Family:	Clay Stabilizer
Type of Product and Use:	Permanent clay stabilizer to mitigate clay swelling.
Manufacturer and/or Supplier:	Chemlogic, Inc. 992 East Texas Ave. Rayne, Louisiana 70578 Offc.: (337) 334-8100 Fax: (337) 334-1625 Chemtrec: (800) 424-9300 (Outside US/Canada: (703) 527-3887)

Emergency Phone (24 Hrs.):

2. Hazard(s) Identification:
GHS Classification of Substance:

Skin irritation (Category 2), H315
 Eye irritation (Category 2C), H320

GHS Label Elements:

Pictogram(s):



Signal Word:

Warning**Hazard Statement(s):**

H315 Causes skin irritation.
 H320 Causes eye irritation.

Precautionary Statement(s):

P102 Keep out of reach of children.
 P264 Wash skin thoroughly after handling.
 P280 Wear protective gloves and clothing/eye protection/face protection.
 P301 + P330 + P331 + P310 If swallowed: rinse mouth. DO Not induce vomiting. Immediately call a POISON CENTER/doctor.
 P303 + P353 If on skin or hair: rinse skin with water/shower.
 P304 + P340 If inhaled: remove person to fresh air and keep 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.
 P363 Wash contaminated clothing before reuse.
 P405 Store locked up.
 P501 Dispose of contents/container to an approved waste disposal plant.

Hazards Not Otherwise Classified (HNOC) or Not Covered by GHS:

None

3. Composition/Information on Ingredients:

Substance or Mixture:	Mixture		
Ingredient(s):		Percentage (%):	CAS Number:
No hazardous ingredients			

There are no additional ingredients present which, within current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. First Aid Measures:

Description of Necessary First Aid Measures:

- Eye Contact: Rinse cautiously with water for 15 minutes. Remove contact lenses if present and easy to do. Continue rinsing and consult a physician.
- Inhalation: Consult a physician if symptoms occur.
- Skin Contact: Wash off with plenty of water. Consult a physician if irritation persists.
- Ingestion: Rinse mouth. Consult a physician if symptoms occur.

Most Important Symptoms/Effects, Acute and Delayed

- Eye Contact: Causes serious eye damage.
- Inhalation: Harmful if inhaled. May give off gas or vapor that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
- Skin Contact: Causes skin irritation and burning. Defatting to the skin. May cause an allergic skin reaction.
- Ingestion: Harmful if swallowed. Causes damage to organs following a single exposure if swallowed. May cause burns to mouth, throat and stomach.
- Protection of First-Aiders: In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency responders. Use personal protective equipment as required.

Indication of Immediate Medical Attention and Special Treatment Needed, if Necessary

- Notes to Physician: Treat symptomatically.
- Specific Treatments: No data available. The most important known symptoms and effects are described in the labelling (see Section 2) and/or in Section 11.

5. Firefighting Measures:

Extinguishing Media

Suitable Extinguishing Media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Special Hazards Arising From the Substance or Mixture:

None known. Not flammable or combustible

Advice for Firefighters:

Use personal protective equipment.

Further Information:

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. In the event of fire and/or explosion do not breathe fumes.

6. Accidental Release Measures:

Personal Precautions, Protective Equipment and Emergency Procedures:

Ensure clean-up is conducted by trained personnel only. Refer to protective measures listed in Sections 7 and 8.

Environmental Precautions:

Do not allow contact with soil, surface or ground water.

Methods and materials for containment and cleaning up:

Stop leak if safe to do so. Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see Section 13). For large spills, dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Flush away traces with water.

Reference to other sections:

For disposal see Section 13.

7. Handling and Storage:

Precautions for Safe Handling:

Avoid contact with skin and eyes. Wash hands thoroughly after handling. Use only with adequate ventilation. For precautions see Section 2.



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Version: 1.0

Revision Date: May 31, 2015

Conditions for Safe Storage, Including Any Incompatibilities:

Do not store near acids. Keep out of reach of children. Keep container tightly closed. Store in suitable labeled containers. The following compatibility data is suggested based on similar product data and/or industry experience: Compatibility with plastic materials can vary; we therefore recommend that compatibility is tested prior to use.

Specific End Use(s):

Apart from the uses mentioned in Section 1 no other specific uses are stipulated.

8. Exposure Controls/Personal Protection:

Engineering Controls:

Contains no substances with occupational exposure limit values. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. Good general ventilation should be used.

Personal Protective Equipment:

HMIS Personal Protection: C, Safety glasses, gloves, and apron.

Eye protection: Safety glasses according to OSHA Standard - 29 CFR 1910.133 or ANSI Z87.1-2010

Body protection: Wear rubberized, water-proof, or acid-resistant apron. Protective gloves (chemically resistant) according to OSHA Standard - 29 CFR 1910.138.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

General Hygiene: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, using the toilet, or applying cosmetics.

PPE recommendation is advisory only and based on typical use conditions. An industrial hygienist or safety officer familiar with the specific situation of anticipated use must determine actual PPE required when using this product (29 CFR 1910.132).

Exposure Limits:

OSHA (TWA, STEL, PEL): None Established

ACGIH (TWA/TLV): None Established

9. Physical Properties:

Physical State:	Liquid
Color:	Light Amber
Odor:	Mild
Odor Threshold:	No Data Available
pH:	6-8 (5% in Water)
Melting/Freezing Point:	<-6° C
Boiling Point:	>100° C
Flash Point:	>93° C (Closed Cup – PMCC)
Evaporation Rate	No Data Available (n-Butyl Acetate = 1)
Flammability, UEL	No Data Available
Flammability, LEL	No Data Available
Vapor Pressure	>22 (mm Hg @ 20° C)
Vapor Density	No Data Available (Air = 1)
Specific Gravity/Density:	1.07 (+/- 0.05), 8.9 lbs./gal.
Solubility:	Water Soluble
Partition Coefficient (n-octanol/water):	No Data Available
Auto Ignition Temperature:	No Data Available
Decomposition Temperature:	>200° C
Volatile Organic(s)	<50 gm/1000 ml.

10. Stability and Reactivity:

Reactivity: The product is stable under normal storage and use conditions.



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- Chemical Stability: The product is stable under normal storage and use conditions.
- Possibility of Hazardous Reactions: Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to Avoid: None known.
- Materials to Avoid: Contact with strong acids or oxidizing agents.
- Hazardous Decomposition: Decomposition products may include the following materials: Carbon oxides.
- Hazardous Polymerization: Polymerization will not occur.

11. Toxicological Information:

Exposure Routes and Acute Toxicity:

- Oral (LD50): No applicable toxicity data available.
Health injuries are not known or expected under normal use.
- Inhalation (LC50): No applicable toxicity data available.
Health injuries are not known or expected under normal use.
- Dermal (LC50): No applicable toxicity data available.
Health injuries are not known or expected under normal use.
- Skin Irritation: Causes skin irritation.
- Eye Irritation: Causes severe eye irritation
- Sensitization: No applicable toxicity data available.
- Reproductive Toxicity: No applicable toxicity data available.
- Mutagenicity: No applicable toxicity data available.
- Teratogenicity: No applicable toxicity data available.
- Carcinogenicity: See following table. Not classifiable as to its carcinogenicity to humans.

Ingredient(s)	IARC	NTP	OSHA
No hazardous ingredients	Lack of evidence of carcinogenicity.	Lack of evidence of carcinogenicity.	Lack of evidence of carcinogenicity.

Delayed (Sub-Chronic and Chronic) Effects:

- Embryotoxicity: No data available.
- 28 Day Inhalation Study: No data available.
- 90 Day Inhalation Study: No data available.

Toxicity Data:

- Target Organ(s) (Single Exposure): No applicable toxicity data available.
Health injuries are not known or expected under normal use.
- Target Organ(s) (Repeated Exposure): No applicable toxicity data available.
Health injuries are not known or expected under normal use.
- Repeated Dose or Dose Levels Toxicity: No applicable toxicity data available.
Health injuries are not known or expected under normal use.
- Ingestion: No applicable toxicity data available.
Health injuries are not known or expected under normal use.
- Carcinogenicity: Lack of evidence of carcinogenicity to humans.
- Aspiration Hazard: No applicable toxicity data available.
Health injuries are not known or expected under normal use.

General Notes: To the best of our knowledge, the chemical, physical, and Toxicological properties have not been thoroughly investigated.

12. Ecological Information:

- Aquatic Toxicity: This product has no known ecotoxicological effects.



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Persistence and Degradability:	Product is not expected to bioaccumulate. The product is readily biodegradable (>85%) under aerobic and anaerobic conditions in a water-sediment system (28 days aerobic & 30 days anaerobic).
Bioaccumulative Potential:	No data available.
Mobility in Soil:	The environmental fate was estimated using a level III fugacity model embedded in the EPI (estimation program interface) Suite™, provided by the US EPA. The model assumes a steady state condition between the total input and output. The level III model does not require equilibrium between the defined media. The information provided is intended to give the user a general estimate of the environmental fate of this product under the defined conditions of the models. If released into the environment this material is expected to distribute to the air, water and soil/sediment in the approximate respective percentages; Air: <5%, Water: <5%, and Soil: <5%.
Other Adverse Effects:	No data available.

General Notes: All practices must be aimed at eliminating environmental contamination. Do not allow undiluted product or large quantities to enter ground water or sewage systems.

13. Disposal Considerations:

Dispose of in accordance with local, state and federal regulations.

The information presented only applies to the material as supplied. The classification or waste code may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.

Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations. Dispose of wastes in an approved waste disposal facility. Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers. Container contents should be completely used and containers should be emptied prior to discard.

14. Transport Information:

DOT Hazard Class	DOT Non-regulated.
DOT Proper Shipping Name	DOT Non-regulated – Chemlogic Clay-Chlor-PC
IMDG Proper Shipping Name	Non-regulated.
IATA Proper Shipping Name	Non-regulated.
Identification Label	None required.

15. Regulatory Information:

SARA Section 302 Components:	No chemicals in this material are subject to the reporting requirements of SARA Section 302. No RQ has been established. The product is considered non-toxic.
SARA Section 313 Components:	No chemicals in this material are subject to the reporting requirements of SARA Section 313.
SARA 311/312 Acute:	Yes
SARA 311/312 Chronic:	No.
SARA 311/312 Hazards:	No data available.
SARA 313 List:	This product does not contain any chemicals subject to routine annual toxic chemical release reporting.
CERCLA RQ:	This product does not contain any CERCLA listed hazardous substances. No RQ has been established (see explanation under SARA Section 302/304 Components above).
TSCA Status:	All components are registered on TSCA inventory.
CAA:	This product does not contain any CAA listed hazardous substances.
CWA:	This product does not contain any CWA listed hazardous substances.
CA Prop. 65 Components:	This product does not contain any CA Prop. 65 listed hazardous substances.
MA Right To Know Components:	This product does not contain any MA RTK listed hazardous substances.
NJ Right To Know Components:	This product does not contain any NJ RTK listed hazardous substances.
PA Right To Know Components:	This product does not contain any PA RTK listed hazardous substances.

Canada WHIMS: This product has been not classified in accordance with the hazard criteria of the CPR, and the SDS contains all the information required by the CPR. The substances in this preparation are included on or exempted from the TSCA 8(b) Inventory (40 CFR 710).

16. Other Information:

HMIS III: Health = 0, Fire = 1, Physical Hazard = 0

HMIS PPE: C – Safety glasses, chemical resistant gloves, and rubberized apron.

NFPA Rating: Health = 0, Fire = 1, Reactivity = 0



The information contained in this document (Safety Data Sheet) was obtained from current and reliable sources. However, the data is provided without any warranty, expressed or implied, regarding its correctness, or accuracy. Since the conditions, handling, storage, and disposal of this product are beyond the control of the manufacturer/supplier, they are not held responsible for loss, injury, and expense arising out of the product's use. No warranty, expressed, implied, or inferred, regarding the product described in this document (Safety Data Sheet) shall be created or inferred by any statement in this document (Safety Data Sheet).

Acronyms/Abbreviations:

ANSI: American National Standards Institute
ASTM: American Society of Testing and Materials
BOD⁵ or BOD²⁸: Biological Oxygen Demand, 5-Day or 28-Day Test Standard
CAA: Clean Air Act
CAS: Chemical Abstract Service
CERCLA: Comprehensive Environmental Response, Compensation & Liability Act
CFR: Code of Federal Regulations
CPSC: Consumer Product Safety Commission
CWA: Clean Water Act
DOT: Department of Transportation
EINECS: European Inventory of Existing Commercial Chemical Substances
EPA: Environmental Protection Agency
FIFRA: Federal Insecticide, Fungicide and Rodenticide Act
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
HMIS: Hazardous Materials Identification System
IARC: International Agency for the Research on Cancer
IATA: International Air Transportation Association
IMDG: International Maritime Dangerous Goods Code
IMO: International Maritime Organization
IOMC: Inter-Organization Program on the Sound Management of Chemicals
ISO: International Standards Organization
IUPAC: International Union of Pure and Applied Chemistry
LC50: The concentration of a substance in air which resulted in the death of 50% of test subjects.
LD50: The concentration of a substance which resulted in the death of 50% of test subjects.
LEL: Lower Explosive Limits
mg/kg: Milligrams per Kilogram
mg/l: Milligrams per Liter
mg/m³: Milligrams per Cubic Meter
mm/Hg: Millimeters of Mercury; Measurement of Air Pressure
MSDS: Material Safety Data Sheet
NAFTA: North American Free Trade Agreement
NFPA: National Fire Protection Association
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Administration
OECD: The Organization for Economic Cooperation and Development
PEL: Permissible Exposure Limit
pH: Negative Logarithm of the Hydrogen Ion; Measurement of Acidity or Alkalinity
PMCC: Pensky-Martens Closed Cup Flash Point Test
ppm: Parts per Million
RQ: Release Quantity
SARA: Superfund Amendments and Reauthorization Act
SDS: Safety Data Sheet
STEL: Short-Term Exposure Limit
TFHCL: Task Force on the Harmonization of Classification and Labelling
TLV: Threshold Limit Value
TPQ: Threshold Planning Quantities
TSCA: Toxic Substances Control Act
TWA: Time-Weighted Average or Absolute Value
UEL: Upper Explosive Limits
UN: United Nations
UNCED: United Nations Conference on Environment and Development
UNCETDG: United Nations Committee of Experts on the Transport of Dangerous Goods
VOC: Volatile Organic Compounds
WHMIS: Workplace Hazardous Materials Information System