



Baker Petrolite

Material Safety Data Sheet

Section 1. Chemical Product and Company Identification

Product Name	CL2OUT 1100	Code	CLT1100
Supplier	Baker Petrolite A Baker Hughes Company 12645 W. Airport Blvd. (77478) P.O. Box 5050 Sugar Land, TX 77487-5050 For Product Information/MSDSs Call: 800-231-3606 (8:00 a.m. - 5:00 p.m. cst, Monday - Friday) 281-276-5400	Version	3.0
Material Uses	Biocide	Effective Date	4/26/2006
24 Hour Emergency Numbers	CHEMTREC 800-424-9300 (U.S. 24 hour) Baker Petrolite 800-231-3606 (001)281-276-5400 CANUTEC 613-996-6666 (Canada 24 hours) CHEMTREC Int'l 01-703-527-3887 (International 24 hour)	Print Date	4/26/2006
National Fire Protection Association (U.S.A.)			

Section 2. Hazards Identification

Physical State and Appearance	State: Liquid., Color: Colorless., Odor: Odorless.
CERCLA Reportable Quantity	Not applicable.
Hazard Summary	CAUTION. May be irritating to eyes, skin and respiratory tract. May cause central nervous system (CNS) effects if inhaled.
Routes of Exposure	Skin (Contact), Eyes, Inhalation.
Potential acute health effects	<p><i>Eyes</i> May cause eye irritation.</p> <p><i>Skin</i> May be irritating to skin.</p> <p><i>Inhalation</i> May cause central nervous system (CNS) effects if inhaled. May be irritating to lungs.</p> <p><i>Ingestion</i> Not considered a likely route of exposure, however, may be toxic if swallowed.</p>
Medical Conditions aggravated by Exposure	Exposure to this product may aggravate medical conditions involving the following: nervous system, respiratory tract, skin/epithelium, eyes.
See Toxicological Information (section 11)	
Additional Hazard Identification Remarks	Not available.

Section 3. Composition and Information on Ingredients

Name	CAS #	% by Weight
Sodium Bromide (NaBr)	7647-15-6	30 - 60

See Section 8 for information on permissible exposure limits and threshold limit values.

Section 4. First Aid Measures

Eye Contact	Flush eyes with plenty of water for 15 minutes, occasionally lifting upper and lower eyelids. Get medical attention immediately.
Skin Contact	Remove and launder or clean contaminated clothing and shoes. Wash with soap and water for at least 15 minutes or until no evidence of material remains. Get medical attention if irritation occurs.
Inhalation	Remove to fresh air. Oxygen may be administered if breathing is difficult. If not breathing, administer artificial respiration and seek medical attention. Get medical attention if symptoms appear.
Ingestion	Get medical attention immediately. If swallowed, do not induce vomiting unless directed to do so by medical personnel. Wash out mouth with water if person is conscious. Never induce vomiting or give anything by mouth to a victim who is unconscious or having convulsions.
Notes to Physician	Not available.
Additional First Aid Remarks	May be harmful if ingested. Call poison control center or physician for advice.

Section 5. Fire Fighting Measures

Flammability of the Product	Not regulated as flammable or combustible.
OSHA Flammability Class	Not available.
Products of Combustion	Not available.
Fire Hazards in Presence of Various Substances	Not available.
Fire Fighting Media and Instructions	In case of fire, use foam, dry chemicals, or CO2 fire extinguishers. Evacuate area and fight fire from a safe distance. Water spray may be used to keep fire-exposed containers cool. Keep water run off out of sewers and public waterways.
Protective Clothing (Fire)	Do not enter fire area without proper personal protective equipment, including NIOSH approved self-contained breathing apparatus.
Special Remarks on Fire Hazards	Material is neither flammable nor combustible. Avoid high temperatures. When heated to decomposition it emits toxic fumes of bromide (hydrogen bromide) and/or bromine, sodium oxide, and possibly other toxic or irritating fumes or gases.

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Section 6. Accidental Release Measures

Spill Put on appropriate personal protective equipment. Keep personnel removed and upwind of spill. Shut off all ignition sources; no flares, smoking, or flames in hazard area. Approach release from upwind. Shut off leak if it can be done safely. Contain spilled material. Keep out of waterways. Dike large spills and use a non-sparking or explosion proof means to transfer material to an appropriate container for disposal. For small spills add absorbent (soil may be used in absence of other suitable materials scoop up material and place in a sealed, liquid-proof container. Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Other Statements Not applicable.

Additional Accidental Release Measures Not available.

Remarks

Section 7. Handling and Storage

Handling and Storage Put on appropriate personal protective equipment. Avoid contact with eyes, skin and clothing. Avoid breathing vapors or spray mists. Use only with adequate ventilation. Protect from ignition. Store in a dry, cool and well ventilated area. Keep away from incompatibles. Keep container tightly closed and dry.

Additional Handling and Storage Remarks Not available.

Section 8. Exposure Controls/Personal Protection

Exposure Limits Sodium Bromide (NaBr) **Manufacturer. (United States).**
TWA: 10 mg/m³ 8 hour/hours.

Additional Information on Exposure Limits Not available.

Engineering Controls Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors or particles below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection

Personal Protective Equipment recommendations are based on anticipated known manufacturing and use conditions. These conditions are expected to result in only incidental exposure. A thorough review of the job tasks and conditions by a safety professional is recommended, however, to determine the level of personal protective equipment appropriate for these job tasks and conditions.

Eyes Chemical safety goggles.

Body Wear long sleeves to prevent repeated or prolonged skin contact.

Respiratory Respirator use is not expected to be necessary under normal conditions of use. In poorly ventilated areas, emergency situations or if exposure levels are exceeded, use NIOSH approved full face respirator.

Hands Chemical resistant gloves.

Feet Chemical resistant boots or overshoes.

Other information Chemical resistant gloves (Nitrile or Butyl Rubber), boots, chemical goggles should be used to prevent skin and eye contact. Remove and wash contaminated clothing before reuse. Eyewash station and safety shower should be available.

As needed, air purifying respirator with full face piece and organic vapor cartridge/cannister. Avoid breathing vapors and mists.

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Additional Exposure Control Remarks Not available.

Section 9. Physical and Chemical Properties

Physical State and Appearance	Liquid.	Odor	Odorless.
pH	5.5 - 8.5 (Neat - without dilution)	Color	Colorless.
Specific gravity	1.414 - 1.426 @ 16°C (60°F)		
Density	11.78 - 11.88 lbs/gal @ 16°C (60°F)		
Flash Points	Closed cup: >93.4°C (200°F). (TCC)		
Flammable Limits	L.E.L. Not available. U.E.L. Not available.		
Autoignition Temperature	Not available.		
Initial Boiling Point	Not available.		
Boiling Point	Not available.		
Vapor Density	>1 (Air = 1)		
Vapor Pressure	Not Available or Not Applicable for Solids.		
Evaporation Rate	Not Available or Not Applicable for Solids.		
VOC	Not available.		
Viscosity	Not available.		
Pour Point	Not available.		
Solubility (Water)	Soluble		
Physical Chemical Comments	Not available.		

Section 10. Stability and Reactivity

Stability and Reactivity	The product is stable.
Conditions of Instability	Not available.
Incompatibility with Various Substances	Oxidizing material. Metal. Acid. Alkali.
Hazardous Decomposition Products	Not applicable.
Hazardous Polymerization	Hazardous polymerization is not expected to occur.
Special Stability & Reactivity Remarks	AVOID: contamination, acids, alkaloidal and heavy metal salts.

Section 11. Toxicological information**Component Toxicological Information****Acute Animal Toxicity**

Sodium Bromide (NaBr)

ORAL (LD50): Acute: 7000 mg/kg [Mouse]. 3500 mg/kg [Rat].

Chronic Toxicity Data

1) Sodium Bromide (NaBr)

Sodium bromide is a component of this product. Bromide poisoning following acute ingestion is rare. Chronic ingestion may produce a toxic syndrome known as "bromism", characterized by behavior changes, irritability, headache, confusion, appetite loss, slurred speech, eye effects and unconsciousness. Sodium bromide has caused reproductive effects in rats fed 720 - 3600 mg/kg during pregnancy. Reproductive effects were also noted to the fertility or offspring of male rats exposed orally to 47,520 mg/kg sodium bromide prior to mating. Endocrine, blood, nutritional/metabolic and behavioral changes were observed in rats dosed orally with sodium bromide.

Product Toxicological Information**Acute Animal Toxicity** Not available.**Target Organs** nervous system, respiratory tract, skin/epithelium, eyes.**Other Adverse Effects** Not available.**Section 12. Ecological Information****Ecotoxicity** Not available.**BOD5 and COD** Not available.**Biodegradable/OECD** Not available.**Toxicity of the Products of Biodegradation** Not available.

Special Remarks An EcoTox™ Report, and/or the material's environmental fate is available upon request at the following number:
1-800-235-4249, then press 4.

Section 13. Disposal Considerations

Responsibility for proper waste disposal rests with the generator of the waste. Dispose of any waste material in accordance with all applicable federal, state and local regulations. Note that these regulations may also apply to empty containers, liners and rinsate. Processing, use, dilution or contamination of this product may cause its physical and chemical properties to change.

Additional Waste Remarks Not available.

Section 14. Transport Information

DOT Classification	Not regulated by DOT.	
DOT Reportable Quantity	Not applicable.	
Marine Pollutant	Not applicable.	
Additional DOT Information	Not available.	
Emergency Response Guide Page Number	Not applicable.	

Section 15. Regulatory Information

HCS Classification	Irritant.
U.S. Federal Regulations	
Environmental Regulations	Extremely Hazardous Substances: Not applicable to any components in this product. SARA 313 Toxic Chemical Notification and Release Reporting: Not applicable to any components in this product. SARA 302/304 Emergency Planning and Notification substances: Not applicable to any components in this product. Hazardous Substances (CERCLA 302): Not applicable to any components in this product. SARA 311/312 MSDS distribution - chemical inventory - hazard identification: immediate health hazard; Clean Water Act (CWA) 307 Priority Pollutants: Not applicable to any components in this product. Clean Water Act (CWA) 311 Hazardous Substances: Not applicable to any components in this product. Clean Air Act (CAA) 112(r) Accidental Release Prevention Substances: Not applicable to any components in this product.
Threshold Planning Quantity (TPQ)	Not applicable.
TSCA Inventory Status	All components are included or are exempted from listing on the US Toxic Substances Control Act Inventory. This product does not contain any components that are subject to the reporting requirements of TSCA Section 12(b) if exported from the United States.
State Regulations	State specific information is available upon request from Baker Petrolite.
International Regulations	
Canada	All components are compliant with or are exempted from listing on the Canadian Domestic Substance List.
WHMIS (Canada)	Not available.
European Union	All components are included or are exempted from listing on the European Inventory of Existing Commercial Chemical Substances or the European List of Notified Chemical Substances.

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International inventory status information is available upon request from Baker Petrolite for the following countries: Australia, China, Korea (TCCL), Philippines (RA6969), or Japan.

Other Regulatory Information

This product is subject to regulation under the US Federal Insecticide, Fungicide and Rodenticide ACT (FIFRA) and is therefore exempt from US Toxic Substance Control Act (TSCA) Inventory listing requirements. EPA Registration No. 8622-49-10707

Section 16. Other Information**Other Special Considerations**

3196

01/18/06 - Changes to Sections 1, 2, 3, 5, 8, 9 and 15.

04/26/06 - Change to Section 15.

In April, 2005, a number of format changes were made. The most notable of these were switching Sections 2 and 3, moving the exposure limits to Section 8, and moving the flash point from Section 5 to Section 9.

Baker Petrolite Disclaimer

NOTE: The information on this MSDS is based on data which is considered to be accurate. Baker Petrolite, however, makes no guarantees or warranty, either expressed or implied of the accuracy or completeness of this information.

The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of this product.

This MSDS was prepared and is to be used for this product. If the product is used as a component in another product, this MSDS information may not be applicable.