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	Pulsar [®] Briquettes	S Liquid Bleach	
Composition			
Material	Calcium hypochlorite	Liquid Bleach	
Appearance	Solid white, pillow shaped briquette	Greenish-yellow, pungent liquid	
Chlorine	65% available chlorine (minimum)	10.5-16% chlorine when made fresh Quickly loses strength based on storage conditions	
DOT Class	Division 5.1 Oxidizer	Class 8 Corrosive	
NFPA 704	H:3; F:0; I:1; S:OX (class 3)	H:3; F:0; I:1; S:0	
Performance			
Salt	Reduce the need for adding calcium chloride because calcium hypochlorite contains calcium chloride and other soluble calcium salts	Adds almost 2 lbs. of salt per gallon of bleach, making pool surfaces and equipment susceptible to damage, and increases TDS.	
Maintenance	Contains a scale inhibitor designed to reduce maintenance and improve reliability of the chlorinator systems	Lack of calcium means pools may require calcium chloride applications to protect grout from dissolving and plaster from etching	
TDS	Contributes less TDS, requiring less draining of some pool volume annually	Sodium chlorate is a by-product as the bleach degrades	
рН	Requires low level of pH correction. Water is clear, bright and sparkling.	May require 2X as much pH correction, increasing operating costs. High pH contributes to scaling and cloudiness in hard water.	
Water Clarity			
Stability	Anti-scale formulation will not cause over stabilization and will provide continuous chlorination effectively	Wide variety of raw material (caustic soda) quality can lead to impurities (i.e. the presence of metal ions), cause quicker degradation, and affect product stability	
Chlorine Gas	Decreased risk of formation	Increased risk of formation	

Pulsar® Briquettes

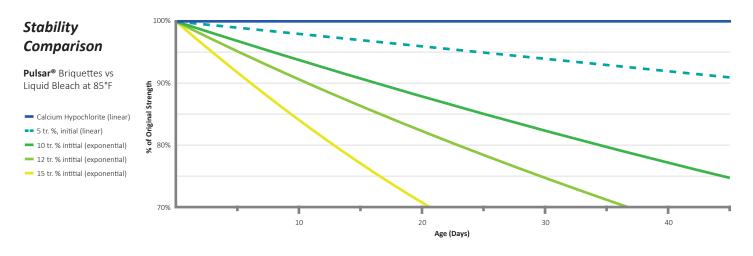
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Storage, Transportation, and Handling

under normal storage conditions after 21 days of storage at 85°F Transport Up to 999 lbs. of cal-hypo can be transported with no hazmat placarding Bulk tanks are hard for end users to move around and take up a lot of space Stackable pallets of product reduce space Mostly made up of water. Large volumes of product	Strength	5-6 times more concentrated than liquid bleach.	Suffers a continuous loss of chemical strength making dosing more challenging.
Transport hazmat placarding take up a lot of space Stackable pallets of product reduce space Mostly made up of water. Large volumes of product	Shelf Life	Up to 7% loss of strength after 1 year	A strong 15% solution will suffer 30% loss of strength
Stackable pallets of product reduce space	Transport		Bulk tanks are hard for end users to move around and take up a lot of space
Storage requirements compared to storing bulk tanks chlorine. High transportation costs.	Storage	Stackable pallets of product reduce space requirements compared to storing bulk tanks	are needed due to low concentrations of active



The Splash-Free Way

- CDC reports that as many as 5,200 ER visits per year are due to pool chemical related injuries
- Pulsar[®] Briquettes are a dry product so no splashing (causes damage to vehicles and pump rooms) and product stays dry until water enters feeder.
- Store off the ground in cool, dry, well-ventilated areas.
- Requires minimal operator dosage adjustments since solution is produced automatically

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