

Calcium Bromide Solution

Date of Preparation: July 20, 2020

		Section 1: IDENTIFICATION		
Product Name:		Calcium Bromide Solution		
Synonyms:		TCS CZB 1700.		
Product Use:		Oilfield Fluid.		
Restrictions on l	Jse:	Not available.		
Manufacturer/Supplier:		Tiger Calcium Services 603-15 Ave Nisku, AB T9E 7M6		
Phone Number:		780-849-3114		
Emergency Phor	ne:	Canutec: 613-996-6666		
Date of Preparat	ion of SDS:	July 20, 2020		
		Section 2: HAZARD(S) IDENTIFICATION		
GHS INFORMAT	ION			
Classification:	Eye Damag	e, Category 1		
LABEL ELEMENTS Hazard Pictogram(s):				
Signal Word:	Danger			
Hazard Statements:	Causes serious eye damage.			
Precautionary Statements Prevention: Wear protective gloves, protective clothing and eye protection.				
Response:	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.			
Storage:	Not applicat	ble.		
Disposal:	Not applicat	ble.		
Hazards Not Otherwise Classified: Not applicable.		fied: Not applicable.		
Ingredients with Unknown Toxicity: None.				
This material is considered hazardous by the OSHA Hazard Communication Standard, (29 CFR 1910.1200).				

This material is considered hazardous by the Hazardous Products Regulations.



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S	ection 3: COMPOSI	FION / INFORMATION ON	INGREDIENTS	
Hazardous Ingredient(s)		Common name / Synonyms	CAS No.	% wt./wt.
Calcium bromide (CaBr2)		Not available.	7789-41-5	45 - 56.5
	Section	4: FIRST-AID MEASURES	3	
Inhalation:	If inhaled: Call a p	poison center or doctor if	you feel unwell.	
	Signs/symptoms	d symptoms and effects: A may include cough, snee eness, and nose and thro	zing, nasal dischar	
Eye Contact:	If in eyes: Rinse cautiously with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor.			
	Acute and delayed symptoms and effects: Causes serious eye damage. Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.			ea, chemical
Skin Contact:	lf on skin: Wash v feel unwell.	with plenty of water. Call a	a poison center or	doctor if you
	-	d symptoms and effects: N may include localized red	•	
Ingestion:	occurs naturally, Do NOT induce v	a poison center or docto have victim lean forward to omiting unless directed to ng by mouth to an uncon	to reduce the risk of do so by medical	of aspiration.
	-	d symptoms and effects: Normal symptoms may include abore and diarrhea.		
General Advice:		nt or if you feel unwell, se r SDS where possible).	ek medical advice	immediately
Note to Physicians:	Symptoms may n	ot appear immediately.		
Section 5: FIRE-FIGHTING MEASURES				

FLAMMABILITY AND EXPLOSION INFORMATION

Not flammable or combustible by OSHA/WHMIS criteria.

Sensitivity to Mechanical Impact: Sensitivity to Static Discharge:	This material is not sensitive to mechanical impact. This material is not sensitive to static discharge.
MEANS OF EXTINCTION Suitable Extinguishing Media:	Small Fire: Dry chemical, CO2, water spray or regular foam.
	Large Fire: Water spray, fog or regular foam. Move containers from fire area if you can do it without risk.
Unsuitable Extinguishing Media:	Not available.



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Products of Combustion: Oxides of calcium. Hydrogen bromide.

Protection of Firefighters: Fire may produce irritating, corrosive and/or toxic gases. Runoff from fire control or dilution water may cause pollution. Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.

Section 6: ACCIDENTAL RELEASE MEASURES			
Emergency Procedures:	Keep unauthorized personnel away. Stay upwind. Keep out of low areas. Ventilate closed spaces before entering.		
Personal Precautions:	Do not touch or walk through spilled material. Use personal protection recommended in Section 8.		
Environmental Precautions:	Keep out of drains, sewers, ditches, and waterways.		
Methods for Containment:	Stop leak if without risk. Do not flush to sewer or allow to enter waterways.		
Methods for Clean-Up:	Absorb or cover with dry earth, sand or other non-combustible material and transfer to containers.		
Other Information:	See Section 13 for disposal considerations.		
	Section 7: HANDLING AND STORAGE		

Handling:

Do not swallow. Wash hands thoroughly after handling. See Section 8 for information on Personal Protective Equipment.

Storage:

Store away from incompatible materials. See Section 10 for information on Incompatible Materials. Keep out of the reach of children.

Section 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines Component

Calcium bromide [CAS No. 7789-41-5] ACGIH: No TLV established. OSHA: No PEL established.

PEL: Permissible Exposure Limit **TLV:** Threshold Limit Value

Engineering Controls:

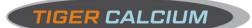
Not normally required.

PERSONAL PROTECTIVE EQUIPMENT (PPE)



Eye/Face Protection:

Wear chemical safety goggles. Ensure that eyewash stations and safety showers are close to the workstation



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	location. Use equipment for eye protection that meets the standards referenced by CSA Standard CAN/CSA-Z94.3 and OSHA regulations in 29 CFR 1910.133 for Personal Protective Equipment.
Hand Protection:	Wear protective gloves. Consult manufacturer specifications for further information.
Skin and Body Protection:	Wear protective clothing.
Respiratory Protection:	Not required under normal use conditions.
General Hygiene Considerations:	Handle according to established industrial hygiene and safety practices. Consult a competent industrial hygienist to determine hazard potential and/or the PPE manufacturers to ensure adequate protection.

Colourless liquid.
Colourless.
Odourless.
Not available.
Liquid.
5.5 to 8.5
Not available.
128 °C (262.4 °F)
Not available.
Not available.
Not available.
Not applicable.
Not available.
Not available.
Not available.
Not available.
1.7 (Water = 1) at 25 °C (77 °F)
Soluble in water.
Not available.
Not available.
Not available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES



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SAFETY DATA SHEET	
Viscosity:	Not available.
Percent Volatile, wt. %:	Not available.
VOC content, wt. %:	Not available.
Density:	Not available.
Coefficient of Water/Oil Distribution:	Not available.

Section 10: STABILITY AND REACTIVITY

Reactivity:	Contact with incompatible materials. Exposure to heat.	
Chemical Stability:	Stable under normal storage conditions.	
Possibility of Hazardous Reactions:	None known.	
Conditions to Avoid:	Contact with incompatible materials. Exposure to heat.	
Incompatible Materials:	Oxidizers. Reducers.	
Hazardous Decomposition Products: Not available.		

Section 11: TOXICOLOGICAL INFORMATION

EFFECTS OF ACUTE EXPOSURE

Product Tox	ticity				
Oral:	Not availab	Not available.			
Dermal:	Not availab	e.			
Inhalation:	Not availab	e.			
Component	nponent Toxicity nponent CAS No. LD50 oral LD50 dermal LC50 cium bromide 7789-41-5 4100 mg/kg (rat) Not available. Not available.				
Likely Route	es of Exposure	Eye c	ontact. Skin contac	t. Inhalation. Inges	tion.
Target Orga	ns:	Skin.	Eyes. Gastrointesti	nal tract. Respirato	ory system.
Symptoms (including dela	/ed and i	mmediate effects)		
Inhalation:	May cause respiratory irritation. Signs/symptoms may include cough, sneezing, nasal discharge, headache, hoarseness, and nose and throat pain.				
Eye:	Causes serious eye damage. Signs/symptoms may include cloudy appearance of the cornea, chemical burns, severe pain, tearing, ulcerations, significantly impaired vision or complete loss of vision.				
Skin:	May cause skin irritation. Signs/symptoms may include localized redness, swelling, and itching.				
Ingestion:	May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.				
Okin Consti		NI-1	- 9 - 6 1 -		

Skin Sensitization: Not available.



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SAFETY DATA SHEETRespiratory Sensitization:Not available.Medical ConditionsNot available.Aggravated By Exposure:

EFFECTS OF CHRONIC EXPOSURE (from short and long-term exposure)

Target Organs:	Skin. Eyes. Gastrointestinal tract. Respiratory system.
Chronic Effects:	Prolonged or repeated contact may dry skin and cause irritation.
Carcinogenicity:	This product does not contain any carcinogens or potential carcinogens above reportable thresholds as listed by ACGIH, IARC, OSHA, or NTP.
Mutagenicity:	Not available.
Reproductive Effects:	Not available.
Developmental Effects Teratogenicity:	Not available.
Embryotoxicity:	Not available.

Toxicologically Synergistic Materials: Not available.

Section 12: ECOLOGICAL INFORMATION			
Ecotoxicity:	Not available.		
Persistence / Degradability:	Not available.		
Bioaccumulation / Accumulation:	Not available.		
Mobility in Environment:	Not available.		
Other Adverse Effects:	Not available.		
Section 13: DISPOSAL CONSIDERATIONS			
•	Disposal should be in accordance with applicable regional, national and local laws and regulations. Local regulations may be more		

stringent than regional or national requirements.

Section 14: TRANSPORT INFORMATION

U.S. Department of Transportation (DOT) Proper Shipping Name: Not regulated

Not regulated.
Not applicable.
Not applicable.
Not applicable.
Not applicable.



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Canada Transportation of Dangerous Goods (TDG)Proper Shipping Name:Not regulated.	
Class:	Not applicable.
UN Number:	Not applicable.
Packing Group:	Not applicable.
Label Code:	Not applicable.

Section 15: REGULATORY INFORMATION

Chemical Inventories

US (TSCA)

The components of this product are in compliance with the chemical notification requirements of TSCA.

Canada (DSL)

The components of this product are in compliance with the chemical notification requirements of the NSN Regulations under CEPA, 1999.

Federal Regulations

United States

This SDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

State Regulations

Massachusetts

US Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

No components are listed.

New Jersey

US New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

No components are listed.

Pennsylvania

US Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

No components are listed.

California

California Prop 65: This product does not contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.



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Section 16: OTHER INFORMATION

Disclaimer:

The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for their own particular use.

Date of Preparation of SDS:	July 20, 2020
Version:	1.0
GHS SDS Prepared by:	Deerfoot Consulting Inc.
	Phone: (403) 720-3700