

Centre Anti-Poison pour le Québec: (800) 463-5060 Tél. (Qc): (418) 660-8666 / 800-890-8666 Fax. (Qc): (418) 660-8998

## SAFETY DATA SHEET

## **SECTION 01 - PRODUCT AND COMPANY IDENTIFICATION**

Product Identifier			Product Use		
BARIUM CHLORIDE DIHYDRATE (30%W/W)				Laboratory use	
Chemical formula				Product code	Molar weight
BaCl <sub>2</sub> .2H <sub>2</sub> O				BS-0330	244,2
Chemical name / Commercial name / Synonymous BARIUM CHLORIDE DIHYDRATE, DICHLORURE DE BARIUM DIHY			'DRATE		
Supplier's name			Address-Street		
Laboratoire MAT		610, Adanac Street			
City		Province			
Québec		Québec			
Postal code	Internet		Phone number		
G1C 7B7 www.labmat.com		418-660-8666 / 800-890-8666			
Emergency phone	nergency phone CANUTEC: 613-996-6666		CENTRE ANTI-POISON DU QUÉBEC 800-463-5060		
Date SDS SDS Prepared by			E-Mail		
1/14/2019 Laboratoire MA		ΑT	labmat@labmat.com		

## **SECTION 02 - HAZARDS IDENTIFICATION**

Classification WHIMS / GHS	Acute toxicity - Inhalation category 4  Acute toxicity - Oral category 4
Signal Word	WARNING
Hazards statements (H)	H332 Harmful if inhaled. H302 Harmful if swallowed.
Precautionary statements (P)	P261 Avoid breathing dust / fume / gas / mist / vapours / spray.  P264 Wash the areas of the body that have been in contact with the product after handling.  P270 Do no eat, drink or smoke when using this product.  P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.  P312 Call a POISON CENTER or doctor/physician if you feel unwell.  P330 Rinse mouth.  P501 Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company.  P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
PICTOGRAMS	<u>!</u>
Other dangers	NFPA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)
	Health 2 Fire 0 Reactivity 0 Special danger

## **SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS**

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Chlorure de baryum dihydrate	10326-27-9	30
Eau	7732-18-5	Balance

### **SECTION 04 - FIRST AID MEASURES**

Eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. If irritation persists, seek medical attention.
Skin contact	Wash off with soap and plenty of water. Remove soiled clothing. Take victim immediately to hospital.
Inhalation	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	If the person is conscious, drink water and induce vomiting. Never give anything by mouth to an unconscious person. Get immediate medical help.
Most important symptoms and effects (acute and delayed)	Ref. section 11.
Immediate medical attention and special treatment, if necessary	In case of medical consultation, keep this sheet available.
General advice	Show this safety data sheet to the doctor in attendance.

### **SECTION 05 - FIREFIGHTING MEASURES**

Flammability	No
Ignition conditions	Not flammable or combustible.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media	Data not available.
Hazardous combustion / decomposition products	Hazardous decomposition products formed under fire conditions. Hydrogen chloride gas. Baryum oxyde.
Special fire and explosion hazards	May react violently with incompatible products (Ref Section 10).
	Discard incompatible substances if this can be done without risk. Firefighters should be equipped with standard protective equipment, fireproof clothing, face mask, gloves, protective boots and, where appropriate, self-contained breathing apparatus.

## **SECTION 06 - ACCIDENTAL RELEASE MEASURES**

Methods and materials for	Evacuate personnel to safe areas. Absorb the product with sand or vermiculite. Dilute residues with water,
containment and cleaning up /	clean and rinse. Ensure a good ventilation of the premises. Dispose of residues in a container for disposal
Personnal precautions, protective	of hazardous materials. When handling, wear suitable safety equipment. Use breathing apparatus if
equipment	necessary. Avoid breathing vapours, mist or gas. Do not let product enter drains.

## **SECTION 07 - HANDLING AND STORAGE**

Store in a cool, dry place. Keep container tightly closed and store away from heat, moisture, and incompatible products.
Always open containers slowly to allow any excess pressure to vent. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust or vapor is formed.

# SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

### Workplace control parameters

			1		
Composants	NoCAS	Valeur	Paramètres de contrôle	Base	
CHLORURE DE BARYUM DIHYDRATE	10326-27-9	TWAEV	0.500000 mg/m3	Canada. Ontario OELs	
Remarques				·	
		TWA	0.500000 mg/m3	Canada. Alberta, Code de santé et de sécurité au travail (tableau 2 : VLE)	
		VE11.D	0.500000 / 0		
		VEMP	0.500000 mg/m3	Québec. Règlement sur la santé et la sécurité du travail, Annexe 1 Partie 1: Valeurs d'exposition admissibles des contaminants de l'air	
		TWA	0.500000 mg/m3	Canada. LEP Colombie Britannique	
	·	!	<u>!</u>		
		TWA	0.5 mg/m3	Canada. Alberta, Code de santé et de sécurité au travail (tableau 2 : VLE)	
	<del>-</del>	<b>-</b>	<b>-</b>		
		VEMP	0.5 mg/m3	Québec. Règlement sur la santé et la sécurité du travail, Annexe 1 Partie 1:Valeurs d'exposition admissibles des contaminants de l'air	
				<b>I</b>	
		TWA	0.5 mg/m3	Canada. LEP Colombie Britannique	
Data source	Sigma-Aldrich.				
/entilation	Use fan.				
Respiratory	If the permissibl	If the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.			
Gloves	Handle with glo	Handle with gloves.			
yes	Safety goggles	with safety shutte	rs.		
Shoes	Safety shoes.				
Clothing	Labcoat.	Labcoat.			
Engineering control	Have safety showers and eyewash stations in the workplace in case of an emergency and a ventilation system to maintain the level of concentrations in the air below the exposure limit values.				

## **SECTION 09 - PHYSICAL AND CHEMICAL PROPERTIES**

Physical state	Liquid.
Appearance	Liquide incolore-
Odour	Donnée non disponible.
Odour threshold	Data not available
рН	4.
Melting point / Freezing point	Data not available
Initial boiling point	Data not available
Boiling range	Data not available
Flash point	Data not available
Evaporation rate	Data not available
Flammability	No
Lower flammable / Explosive limit	Data not available
Upper flammable / Explosive limit	Data not available
Vapour pressure	Data not available
Solubility	Soluble dans l'eau et le méthanol. Insoluble dans l'éthanol.
Vapour density	Data not available
Relative density	
Partition coefficient water/n-octanol	Data not available
Auto-ignition temperature	Data not available
Decomposition temperature	Data not available
Viscosity	Data not available

# **SECTION 10 - STABILITY AND REACTIVITY**

Reactivity	Non-reactive under normal conditions.
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Stable under normal conditions.
Conditions of instability (Including sensitivity to shock / static discharge / vibration)	Data not available.
Incompatible material	Strong oxidizing agents (nitric acid, perchloric acid, peroxides, chlorates and perchlorates) and moisture.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions. Toxic vapors of hydrogen chloride. Barium oxyde.

## **SECTION 11 - TOXICOLOGICAL INFORMATION**

### **BARIUM CHLORIDE (DIHYDRATE)**

Routes of exposure	Ingestion, inhalation, skin and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation and tearing.
- Skin	Irritation and dermatitis.
- Inhalation	Irritation of the mucous membranes and respiratory tract. Nervous disorders, chest pain, cough, dyspnea, headache, dizziness, sweating, salivation, nausea and vomiting.
Acute toxicity (Ingestion)	Irritation of the mucous membranes. Abdominal pain, cramps, diarrhea, headache, dizziness, excessive salivation, nausea and vomiting, stimulation of all muscles followed by flaccid paralysis, cardiac arrhythmias (tachycardia and ventricular fibrillation), hypertension, hypokalemia and death by heart failure or respiratory. Ingestion of 800 mg can be fatal in adults.
Chronic exposure effects / symptoms	Burning sensation, dermatitis, nervous disorders, chest pain, cough, dyspnea, headache, dizziness, confusion, irritability, sweating, salivation, fatigue, weight loss and loss of appetite, nausea and vomiting.
DL50 (specify species and route of entry)	Data based on the anhydrous product: LD50 Oral - Rat - 100 - 676 mg/kg LD50 Dermal - Data not available.
CL50 (specify species and route of entry)	Data based on the anhydrous product: LC50 - Inhalation - 1.1 mg/L

#### **SUMMARY**

Acute exposure effects / Symptoms:	By exposure routes below.
Ingestion	To our knowledge, the product has not been fully evaluated
Inhalation	To our knowledge, the product has not been fully evaluated
Skin	To our knowledge, the product has not been fully evaluated
Eyes	To our knowledge, the product has not been fully evaluated
Chronic exposure effects / Symptoms:	To our knowledge, the product has not been fully evaluated
	LD50 Oral: 393 mg/kg - Rat LD50 Dermal: Data not availble LC50 Inhalation: 4.3mg/L- 4h- Rat

### **SECTION 12 - ECOLOGICAL INFORMATION**

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Available ecological information	No

### **SECTION 13 - DISPOSAL CONSIDERATIONS**

•	Dispose of contents / container in accordance with local / regional / national / international regulations / or contact a specialist waste disposal company.
Contaminated Packaging	Dispose of as unused product.

### **SECTION 14 - TRANSPORT INFORMATION**

UN Number	N/R
UN Proper shipping name	
Transport hazard class(es)	
Packing group	
Limited quantity index	
ERAP Index	
Special precautions	

### **SECTION 15 - REGULATORY INFORMATION**

WHIMS CANADA	Acute toxicity - Inhalation category 4
	Acute toxicity - Oral category 4

### **SECTION 16 - OTHER INFORMATION**

#### **Further information**

The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. It does not represent any guarantee of the properties of the product. Laboratoire MAT Inc. shall not be held liable for any damage resulting from handling or from contact with the above product.

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