

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				
CALCIUM REFERENCE S	OLUTION 1000 F	Laboratory use				
Chemical formula				Product code	Molar weight	
CaCO3	CaCO3				AA-0800 100,09	
Chemical name / Commercial name /	Synonymous					
-						
Supplier's name			Address-Street			
Laboratoire MAT			610, Adanac Street			
City			Province			
Québec			Québec			
Postal code	Internet		Phone number			
G1C 7B7	www.labmat.com	n	418-660-8666 / 800-890-8666			
Emergency phone	CANUTEC: 61	3-996-6666	CENTRE ANTI-POISON DU QUÉBEC 800-463-5060			
Date SDS SI		SDS Prepared by		E-Mail		
4/27/2020 Laboratoire MA			Т	labmat@labmat.com		

SECTION 02 - HAZARDS IDENTIFICATION

Classification WHIMS / GHS						
	Skin corrosion/irritation - Skin corrosion category 1B					
	Serious eye damage/eye irritation - Serious eye damage category 1					
Signal Word	DANGER					
Hazards statements (H)	H314 Causes severe	e skin burns and eye damage.				
	H318 Causes seriou	s eye damage.				
Precautionary statements (P)	P260	Do not breathe dust / fume / gas / mist / vapours / spray.				
	P264	Wash the areas of the body that have been in contact with the product after handling.				
	P280	Wear protective gloves/protective clothing/eye protection/face protection.				
	P301 + P330 + P33	31 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.				
	P303 + P361 + P35	53 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.				
	P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.				
	P305 + P351 + P33	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.				
	P310	Immediately call a POISON CENTER or doctor/physician.				
	P321	Specific treatment (see section 4 of the SDS and on this label).				
	P363	Wash contaminated clothing before reuse.				
	P405	Store locked up.				
	P501	Dispose of contents/container in accordance with local / regional / national / international regulations or contact a specialist waste disposal company.				
PICTOGRAMS	A CONTRACTOR					
Other dangers	NFF	PA (Risk: 0=No risk; 1=Slight; 2=Moderate; 3=Signifiant; 4=Extreme)				
	Health 2					
	Fire 0					
	Reactivity 0					
	Special danger					
V						

SECTION 03 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingrédients (Dénomination chimique / synonymes)	Numéro CAS et tout identificateur unique	Concentration (%)
Acide nitrique	7697-37-2	4
Carbonate de calcium	471-34-1	0.25
Εαυ	7732-18-5	Balance

SECTION 04 - FIRST AID MEASURES

Eye contact	Wash eyes with large amounts of water for at least 15 minutes while holding eyelids apart to rinse eyes. If irritation persists, seek medical attention.
Skin contact	Wash skin with plenty of water for at least 15 minutes. Remove soiled clothing. If irritation persists, seek medical attention.
Inhalation	Move the unwell person to the fresh air. If breathing is difficult, give oxygen. Consult a physician.
Ingestion	If the person is conscious, give water to drink. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Consult a physician.
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	Do not use a heavy water stream.
Hazardous combustion / decomposition products	Hazardous decomposition products formed under fire conditions Calcium oxide. Carbon oxides, Nitrogen oxides (NOx).
Special fire and explosion hazards	May react violently with incompatible products (Ref Section 10).
Special protective equipment and precautions for firefighters	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.

SECTION 07 - HANDLING AND STORAGE

Conditions for safe storage	Store in a cool, dry place. Store in a well-ventilated area. Keep container tightly closed and store away from heat, water, moisture, and incompatible products. Protect from the sun's rays.
Methods of handling	Avoid inhalation of vapour or mist. Keep away from heat and sources of ignition. Bottle in plastic containers only. Do not use metal instruments to handle this product. Wear personal protective equipment when handling. Always ensure good ventilation. Transport according to TDG (ref Section 14)

SECTION 08 - EXPOSURE CONTROLS/PERSONAL PROTECTION

Workplace control parameters

Components	CAS- No.	Value	Control parameters		Basis
Nitric acid	7697- 37-2	TWA	2.000000 ppm 5.200000 mg/r	m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		STEL	4.000000 ppm 10.000000 mg	/m3	Canada. Alberta, Occupational Health and Safety Code (table 2: OEL)
		TWA	2.000000 ppm		Canada. British Columbia OEL
		STEL	4.000000 ppm		Canada. British Columbia OEL
		TWAE	/ 2.000000 ppm 5.200000 mg/r	m3	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		STEV	4.000000 ppm 10.000000 mg	/m3	Québec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible exposure values for airborne contaminants
		TWA	2.000000 ppm		USA. ACGIH Threshold Limit Values (TLV)
		STEL	4.000000 ppm		USA. ACGIH Threshold Limit Values (TLV)
Composants	No CAS	Valeur	Paramètres de contrôle	Bas	e
Calcium carbonate	471- 34-1	TWA	10.000000 mg/m3	Car	nada. Alberta, Occupational Health and Safety Code (table 2:OEL)
		TWA	10.000000 mg/m3	Qu exp	ébec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible posure values for airborne
		TWAEV	10 mg/m3	Qu exp	ébec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible posure values for airborne contaminants
		TWAEV	10.000000 mg/m3	Qu exp	ébec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible posure values for airborne contaminants
		TWA	10.000000 mg/m3	Car	nada. Alberta, Occupational Health and Safety Code (table 2:OEL)
Remarks	Occup require	ational e: ed	xposure limit is b	asec	on irritation effects and its adjustment to compensate for unusual work schedules is not
		TWA	10.000000 mg/m3	Car	nada. Alberta, Occupational Health and Safety Code (table 2:OEL)
	Occupational exposure limit is bas required		asec	on irritation effects and its adjustment to compensate for unusual work schedules is not	
		TWAEV	10.000000 mg/m3	Qu exp	ébec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible posure values for airborne contaminants
		TWA	10.000000 mg/m3	Car	nada. Alberta, Occupational Health and Safety Code (table 2:OEL)
	Occupational exposure limit is based required		asec	on irritation effects and its adjustment to compensate for unusual work schedules is not	
		TWAEV	10 mg/m3	Qu exp	ébec. Regulation respecting occupational health and safety, Schedule 1, Part 1: Permissible posure values for airborne contaminants
		TWA	10 mg/m3	Car	nada. Alberta, Occupational Health and Safety Code (table 2:OEL)
	Occup require	ational e: ed	xposure limit is b	asec	on irritation effects and its adjustment to compensate for unusual work schedules is not

Data source	Sigma-Aldrich.
Ventilation	Fan.
Respiratory	If the permissible levels are exceeded, use a mechanical filter / cartridge against NIOSH vapors or a respirator with air supply.
Gloves	Handle with gloves.
Eyes	Safety goggles with safety shutters.
Shoes	Safety shoes.
Clothing	Labcoat. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
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	Inodore.
Odour threshold	Data not available
рН	< 1.0.
Melting point / Freezing point	-7°C
Initial boiling point	102°C
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	Miscible avec l'eau en toutes proportions.
Vapour density	Data not available
Relative density	1.05g/ml
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)	Nitric acid is yellowish in color when exposed to light. Old nitric acid inventories (10 years and older) or yellowish-colored batches have formed a nitroz compound with very explosive potential. Avoid contact with incompatible materials and extreme temperatures.
Incompatible material	When pure, the products react with the following products: Strong oxidizing agents. Nitric acid is incompatible with bases, most metals, especially alkali metals, powdered metals, metal oxides, reducing agents, organic substances, including anhydrides, alcohols, aldehydes, ketones, ethers, amines, hydrocarbons, toluene, acetonitrile, acrylonitrile, chlorobenzene, methylene chloride, etc., combustible organic materials such as paper, charcoal, wood dust, etc. and with many sulphides, nonmetallic hydrides, carbides, and acetylenides.
Hazardous decomposition products	Hazardous decomposition products formed under fire conditions Calcium oxide nitrogen oxides (NOx). Toxic vapors of carbon monoxide and dioxide.

SECTION 11 - TOXICOLOGICAL INFORMATION

NITRIC ACID

Routes of exposure	Ingestion, inhalation, skin and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	Irritation and tearing. Severe burns and destruction of ocular tissue that can lead to corneal ulceration and blindness.
- Skin	May be harmful if absorbed through skin. Severe burns and tissue ulcerations.
- Inhalation	Spasms, irritation and inflammation of the nose, throat and lungs. Cough, dyspnea, cyanosis, chest pain. Edema of the larynx and bronchi. Chemical pneumonitis and pulmonary edema that can lead to death.
Acute toxicity (Ingestion)	Corrosion and ulceration of the mouth, throat, esophagus, stomach and abdominal wall.
Chronic exposure effects / symptoms	Dental erosions have been attributed to repeated exposures. To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
DL50 (specify species and route of entry)	LD50 Oral - Data not available. LD50 Dermal - Data not available.
CL50 (specify species and route of entry)	Inhalation: 67 ppm, 4hres, Mouse

CALCIUM CARBONATE (POWDER)

Routes of exposure	Ingestion, inhalation, skin and eyes.
Acute exposition effects / symptoms:	By exposure route below.
- Eyes	May cause eye irritation.
- Skin	May cause skin irritation.
- Inhalation	May cause respiratory tract irritation.
Acute toxicity (Ingestion)	May cause irritation.
Chronic exposure effects / symptoms	To our knowledge, the chemical, physical and toxicological properties have not been fully investigated.
DL50 (specify species and route of entry)	LD50 Oral - Rat - 6,450 mg/kg. LD50 Dermal - Data not available.
CL50 (specify species and route of entry)	LC50 Inhalation - Rat - 4h - 3 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
ETA Mix	
(Estimated Acute Toxicity)	LD50 Oral: No data available LD50 Dermal: No data available LC50 Inhalation: Rat - 260 mg/m3/30M

SECTION 12 - ECOLOGICAL INFORMATION

Available ecological information No

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste Disposal Method	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	3264
UN Proper shipping name	LIQUIDE INORGANIQUE CORROSIF, ACIDE, N.S.A. (Acide nitrique)
Transport hazard class(es)	8 Corrosive substances
Packing group	
Limited quantity index	5L
ERAP Index	-
Special precautions	16

SECTION 15 - REGULATORY INFORMATION

WHIMS CANADA

Skin corrosion/irritation - Skin corrosion category 1B

Serious eye damage/eye irritation - Serious eye damage category 1

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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