SAFETY DATA SHEET (SDS)

		CTY DATA S	· · · ·	
		ction 1. Identi	fication	
Product identifi		T: 0.00	5115.00.5	
Other means of			5117-09-5	
	use and restrictions on use Plasters and mo	ortars		
Initial supplier		GA 04050 T		
F (1	201 Purrington Road, Petaluma			
Emergency tele		Chemtree 1-800		
~		1 2. Hazard id		
	f hazardous product (name of the category of	or subcategory	of the hazard class)	
Skin corrosion (C				
Eye damage (Cat				
Carcinogenicity		0		
	gan toxicity – repeated exposure (Category 1) ments (symbols, signal words, hazard stater			·····
Information ele	<u>Ments (symbols, signal words, nazard stater</u>	nents and prec	autionary statements of the catego	ry/subcategory)
	ct is humid or mixed with water – H314 Cause	es severe skin bi	ırns and eye damage.	
H350 May cause				
P201 Obtain spe dusts or mists. If protective glove container in acc medical attention SKIN (or hair): P305+P351+P33 rinsing. P304+P3 KEEP OUT OF	nage to organs (lungs) through prolonged or re- cial instructions before use. P202 Do not hand P264 Wash hands/nails/face thoroughly after s/ protective clothing/ eye protection/ face j ordance with local, regional or national regu- n if you feel unwell. P301+P330+P331 IF SV Take off immediately all contaminated clo 8 IF IN EYES: Rinse cautiously with water 840 IF INHALED: Remove person to fresh air REACH OF CHILDREN.	the until all safe handling. P270 protection. P40 alations. P308+ WALLOWED: othing. Rinse s for several min	ty precautions have been read and un Do not eat, drink or smoke when 5 Store locked up. P501 Dispose P313 IF exposed or concerned: Ge Rinse mouth. Do NOT induce vom kin with water. P363 Wash contain nutes. Remove contact lenses, if pro-	using this product. P280 Wear of contents/container into safe t medical attention. P314 Get iting. P303+P361+P353 IF ON ninated clothing before reuse. esent and easy to do. Continue
Other hazards l				
	^	osition/inforn	nation on ingredients	
	(common name/synonyms)		CAS number or other	Concentration (%)
Calcium Oxide			1305-78-8	< 1
Calcium Dihydro			1305-62-0	15-65
Calcium Carbona			1317-65-3	10-40
Calcium Silicate			10034-77-2	10-45
Aluminum Oxid			1344-28-1	0.5-5
Silica, Crystallin	e (Quartz) gnesium oxide, Potassium oxide, Sodium oxide, Ferric oxid	la la	14808-60-7	7-13 < 1
May also contain Mag		on 4. First-aid		1
Inhalation Ingestion	IF INHALED: Remove person to fresh air a IF SWALLOWED: Immediately call a doc rapidly losing consciousness, or is uncons glasses of water. If vomiting occurs natural	and keep comfor tor. DO NOT I cious or convu ly, have victim I	table for breathing. Immediately cal NDUCE VOMITING. NEVER give Ising. Rinse mouth thoroughly with ean forward to reduce risk of aspirat	anything by mouth if victim is water. Have victim drink two ion.
Skin contact	IF ON SKIN (or hair): Take off immediatel			
Eye contact	IF IN EYES: Rinse cautiously with water f do. Continue rinsing. Immediately call a do	ctor.		
-	symptoms and effects (acute or delayed)	exposure. The ways and prese the principal d	s not have acute toxicity in respect or substance is classified as an irritant f ents a risk of serious eye damage. No anger is restricted to localized effects	for the skin and respiratory deadly effects are suspected; s. (effects pH)
Indication of im	mediate medical attention/special treatmen	t In all cases,	call a doctor. Do not forget this doct	ument.
		5. Fire-fighting		
Specific hazards	s of the hazardous product (hazardous com			
	on-combustible. It does not emit any toxic sub			
	suitable extinguishing media			
	se carbon dioxide, chemical powder agent and	l appropriate foa	um to extinguish surrounding product	ts.
Special protecti	ve equipment and precautions for fire-fight	ers		
Special protecti				

Avoid powders and dust dispersion. Use respiratory equ surrounding environment. If possible, avoid discharging				imstances and the
	tion 6. Accidental releas			
Personal precautions, protective equipment and emo				
For non emergency personnel	F			
- Ensure adequate ventilation				
- Avoid release of dust as much as possible.				
- Keep away persons not wearing appropriate protective	e equipment			
- Avoid all contact with skin, eyes and clothing – wear		mont (and Section	0)	
 Avoid an contact with skin, eyes and clothing – wear Avoid inhaling dust – ensure adequate ventilation or v 				(an 8)
	wear respiration masks – we	ai appropriate pro	lective clothing (see Section	1011 8).
For emergency personnel				
- Avoid release of dust as much as possible				
- Ensure adequate ventilation.	· .			
- Keep away persons not wearing appropriate protective			2)	
- Avoid all contact with skin, eyes and clothing-wear a				
- Avoid inhaling dust – ensure adequate ventilation or v	vear respiration masks – we	ear appropriate pro	tective clothing (see Section	ion 8).
Precautions for the protection of the environment				
Contain spillages. Keep product dry if possible. Use				
waterways and drains (pH increase). All spillages in wa	aterways must be notified to	the Environmenta	al Agency or other compe	tent
Authority.				
Methods and materials for containment and cleaning	g up			
- Label all receptacles where dust has been collected				
- Impede or limit dust formation and dispersion				
- Keep product dry if possible				
- Collect product mechanically and in dry condition.				
- Use a vacuum suction unit or shovel into bags.				
- Harden the product before disposal as described in Se	ction 13			
	Section 7. Handling and	storage		
Precautions for safe handling	section 7. manufing and	storage		
Protective measures				
	Ween enneriste protecti	a aquinment (acc	Section 9 of this document	a+)
- Avoid contact with skin, eyes and respiratory airways				n).
- Do not wear contact lenses when handling this produc				11
Keep formation or dispersion of dust to a minimum. En	close dust sources and use	extraction equipme	ent (dust collection at han	ding point).
General advice on occupational hygiene				
- Avoid inhalation, ingestion and contact with skin and	eyes.			
- Appropriate barrier creams can be used.				
- Wash hands after each manipulation.				
- General measures of hygiene at work are essential to e				
- Good personal practices, regular cleaning of the place				
- Shower and change clothing at the end of work. Do	not bring home any conta	minated clothing.	Separate work clothing	from other clothing.
Clean them separately.				
Conditions for safe storage, including any incompati	ibilities			
Safe storing conditions :				
- Keep away from children reach.				
- Store in a dry place.				
- Bulk storage has to be in dedicated silos.				
Incompatible materials:				
- Strong acids and azotate composites.				
- Organic matter.				
- Avoid contact with air and moisture.				
- Do not use aluminium for transport or storage if there	is a risk of contact with wa	ter.		
	. Exposure controls/Per		n	
Control parameters (biological limit values or expos				
Exposure limits: ACGIH – TLV-TWA & PEL-TWA –				
		STEL		STEL
CAS 1205 78 8	PEL-TWA		ACGIH-TWA	
1305-78-8	5 mg/m^3		2 mg/m^3	
1305-62-0	5 mg/m^3		5 mg/m^3	
1317-65-3/471-34-1	5 mg/m^3			
10034-77-2				
1344-28-1	5 mg/m^3		10 mg/m ³	
14808-60-7	0.1 mg/m^3		0.025 mg/m^3	
			-	

Appropriate engineering controls

Exposure Controls:

To control potential risks, avoid generating dust. Wear protective equipment. Eyes protection equipment (goggles or visors for example) are necessary unless contact with the eyes is avoided by the nature and type of application (closed process for example). In any case protection of the face, protective clothing and safety shoes must be worn. Refer to the Exposure Scenario annex available.

Appropriate technical controls:

If the product application generates dust, use enclosures, local ventilation or other technical methods to maintain dust limits below the maximum recommended.

Individual protection measures and personal protective equipment:

Eye and face protection

Do not wear contact lenses.

Wear tight fitting goggles with side shields or large vision full goggles. It is also recommended to carry eyewash.

Skin protection:

As NHLs are classified as irritant for the skin, dermal exposure has to be reduced to the minimum as much as possible.

Chemically protective gloves (impervious), and other protective clothing to prevent prolonged or repeated skin contact, must be worn during all handling operations.

Wear protective clothes offering total protection for the skin (long trousers, long sleeves, close fitting at openings) and shoes resistant to caustic products.

Respiratory protection:

Local ventilation is recommended to keep dust levels below indicated maximum values. Respiratory protection is required if the concentrations are higher than the exposure limits. Use a NIOSH approved respirators if the exposure limits are unknown.

Thermal hazards: The product does not present any thermal hazards.

Environmental exposure controls:

Before discharging into the atmosphere, filter all discharges from ventilation and other extraction systems. Contain spillages. All spillages in watercourses must be notified to the Environment Agency or other competent Authority.

For detailed information on risk management measures adequately controlling exposure of the environment refer to the Exposure Scenario annex available.

Section 9. Physical and c	hemical properties		
Appearance, physical state/color White to gray powder	Vapor pressure Not applicable		
Odor Odorless	Vapor density Not applicable		
Odor threshold Not applicable	Relative density 2.66		
pH ~ 12 - 13	Solubility 1.5 g/l @20°C		
Melting/freezing point >450°C (840° F)	Partition coefficient - n-octanol/water Not applicable		
Initial boiling point/range Not applicable	Auto-ignition temperature Not applicable		
Flash point Not applicable	Decomposition temperature Not applicable		
Evaporation rate Not applicable	Viscosit Not applicable y		
Flammability (solids and gases) Not applicable	VOC Not applicable		
Upper and lower flammability/explosive limits Not applicable	Other None known		
Section 10. Stability	and reactivity		
Reactivity			
In aqueous media Ca(OH)2 disassociates, forming Calcium cat ions and hydrox	xyl anions (when below the water solubility limit).		
Chemical stability			
The product is stable at ambient temperature and within the normal application	and storing conditions.		
Possibility of hazardous reactions			
The substance produces an exothermic reaction in contact with acids. Heated			
Calcium Oxide (CaO) quick lime and water (H2O): Ca(OH)2 -> CaO + H	I2O. The Calcium Oxide reacts with the water and generates		
heat. This could be a risk in the presence of flammable materials.			
Conditions to avoid (static discharge, shock or vibration)			
Minimize exposure to air and humidity to avoid degradation.			
Incompatible materials			
NHLs produce an exothermic reaction in contact with acids to form salts.			
In presence of humidity the NHLs react with aluminium and brass producing	hydrogen $Ca(OH)2 + 2Al$		
$+ 6H2O \longrightarrow Ca[Al(OH)4]2 + 3 H2$			
Hazardous decomposition products			
None to our knowledge. Complementary information: Calcium dihydroxide n	reacts with Carbon dioxide forming Calcium Carbonate which is a		
natural occurring material.			
Section 11. Toxicologi			
Information on the likely routes of exposure (inhalation, ingestion, skin a			
When this product is humid or mixed with water - Causes severe skin burns	and eye damage. May cause cancer. Causes damage to organs (lungs)		
through prolonged or repeated exposure (inhalation).			

Symptoms related to the physical, chemical and toxicological characteristics

Skin irritation, redness, stinging, pain; Eye irritation, redness, tearing.

Delayed and immediate effects (chronic effects from short-term and long-term exposure)

Respiratory or skin sensitisation - No data available.

Based upon the known effects (pH modification) and on the basic human need for calcium in food, NHLs are considered as not producing a sensitisation effect to the skin. None of its components are known to have a sensitisation effect (ie: calcium carbonate calcium silicate and calcined clay mineral). The definition "sensitising" is not justified.

Germ cells mutagenicity

Bacterial reverse mutation tests (Ca(OH)2 and CaO, Tests d'Ames, OCDE 471) : negative. Mammalian chromosome aberration test [Ca(OH)2]: negative. By cross reference these results are applicable to NHLs. None of the components of NHL is known as genotoxic. Considering the pH effect, there is no mutagenicity. The definition "genotoxic" is not justifiable.

Carcinogenicity

IARC: Group 1: Agent is carcinogenic to humans - inhaled from occupational sources (also in NIOSH-C, MAK, NTP-RoC, Prop 65).

NOTE: The European Regulation on Chemicals has published and imposed a set of regulations described in REACH (**R**egistration, **E**valuation, **A**uthorization, and restriction of **CH**emical substances). Per NEPSI (European Network for Silica) recommendation, REACH formatted FDS (MSDS) does not list Crystalline Silica (Quartz) as a cancer risk in Saint-Astier NHL. The reason is that OEL (Occupational Exposure Limit) considers that exposure to a "maximum" breathable dust, at the time of mortar preparation, of less than 0.005mg of Crystalline Silica per m3 of air is NOT considered a health risk.

Reproductive toxicity

Calcium (administered as Ca-carbonate) is not toxic to reproduction (experimental studies on mice). The pH effect does not present a risk to reproduction. Clinical studies on humans and animals with different calcium slats have not shown any effect on reproduction or developmental. NHLs are not toxic for reproduction or development. The definition "toxic to reproduction" is not justified.

Specific toxicity for target organs (STOT)-single exposure

Calcium dihydroxide does not have specific toxicity for any exposure medium (dermal, oral, inhalation)

Specific toxicity for target organs (STOT)-repeated exposure

The toxicity of Calcium ingested is specified by the maximum tolerable limit (UL) for adults: UL = 2500 mg of Ca corresponding to 36 mg of Ca per kg of body weight for an adult weighing 70kg (Data from CSAH: Comité Scientifique en matière d'Alimentation Humaine). The toxicity of NHLs by skin absorption is not considered pertinent due to its insignificant absorption and the primary effect of local irritation (effect pH).

The toxicity due to inhalation (localised effects, mucous irritation) due to the CaO and the Ca(OH)2 is determined by SCOEL (Scientific Committee on exposure levels) as follows: DNEL = $1 \text{ mg} / \text{m}^3$ breathable dust (see section 8.1) and VLEP (8h) = $1 \text{ mg} / \text{m}^3$. The definition "toxic after repeated exposure" is not justified.

Section 12 Eaclarial information

Hazards due to ingestion

Ingesting large quantity causes burns in the mouth, oesophagus, digestive track, nausea and vomit.

Numerical measures of toxicity (ATE; LD₅₀ & LC₅₀)

CAS 1305-62-0 LD₅₀ Oral - Rat - 7340 mg/kg; LC₅₀ Inhalation - Rat - None 4 h; LD₅₀ Dermal - Rabbit - None

ATE not available in this document.

Section 12. Ecological information				
Ecotoxicity (aquatic and terr	estrial infor	mation)		
Toxicity		ater environment and in the soil, exposure to NHLs means exposure to Calcium and hydroxide ions.		
Acute/chronic toxicity to fish	LC5	LC50 (96h) for fresh water fish : 50,6 mg/l (Calcium dihydroxide)		
		LC50 (96h) for Salt water fish : 457 mg/l (Calcium dihydroxide)		
Acute/chronic toxicity to aqu	atic EC5	0 (48h) for fresh water invertebrates : 49,1 mg/l (Calcium dihydroxide)		
invertebrates	EC5	0 (96h) for salt water invertebrates: 158 mg/l (Calcium dihydroxide)		
Acute/chronic toxicity to aqu		0 (72h) for fresh water plants : 184,57 mg/l (Calcium dihydroxide)		
plants	NOE	NOEC (72h) for salt water plants : 48 mg/l (Calcium dihydroxide)		
Toxicity to micro-organisms	In hi	In high concentration because of increases in temperature and pH, calcium oxide is used for the disinfection		
such as bacteria		of sewage sludges		
Chronic toxicity to aquatic		NOEC (14d) for seawater invertebrates : 32 mg/l (Calcium dihydroxide)		
organisms				
Toxicity to soil dwelling		0/LC10 or NOEC for soil macro organisms : 2000 mg/kg of dry soil (Calcium dihydroxide)		
organisms		EC10/LC10 or NOEC for soil micro organisms : 12000 mg/kg of dry soil (Calcium dihydroxide)		
Toxicity to terrestrial flora	NOE	EC (21d) for terrestrial plants : 1080 mg/kg (Calcium dihydroxide)		
General effects	The	product modifies the pH		
		Although this product is useful for the modification of the pH of the water (acidity reduction), a dosage of		
		over 1g/l can be harmful to aquatic life		
		A pH value > 12 will decrease rapidly due to dilution and carbonation		
Persistence and degradability		Not relevant (inorganic substance)		
Bioaccumulative potential		ant (inorganic substance)		
		reacts with moisture and/or Carbon dioxide forming Calcium Carbonate and water		
Ca(OH)	$_{2} + CO_{2} - 2$	> CaCO ₃ + H ₂ O which is sparingly soluble presenting a low mobility in most soils		
Results of PBT and vPBvB e	valuations	s Not relevant (inorganic substance)		
Other adverse effects		Not identified		

	Section 12 Dimensional considerations
T A (1	Section 13. Disposal considerations
	safe handling for disposal/methods of disposal/contaminated packaging
Dispose of conte	ents/container into safe container in accordance with local, regional or national regulations.
	Section 14. Transport information
	oper shipping name; Class(es); Packing group (PG) of the TDG/49 CFR Regulations
NOT REGULA	
UN number; Pr	oper shipping name; Class(es); Packing group (PG) of the IMDG (maritime)
NOT REGULA	
	oper shipping name; Class(es); Packing group (PG) of the IATA (air)
NOT REGULA	TED
Special precaut	ions (transport/conveyance) None
Environmental	hazards (IMDG or other) None
Bulk transport	(usually more than 450 L in capacity) Possible
	Section 15. Regulatory information
Safety/health C	anadian regulations specifics Refer to Section 2 for the appropriate classification. This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).
Environmental	Canadian regulations specifics Refer to Section 3 for ingredient(s) of the DSL
	ivironmental outside regulations specifics
United States OS	SHA information: This product is regulated according to OSHA (29 CFR).
	A (Environmental Protection Agency) information: 40 CFR Refer to the ingredients listed in Section 3 & Sections 12; 13 & 14.
United States TO	CSA information: Refer to the ingredients listed in Section 3.
National Fire Pre	otection Association (NFPA):
HEALTH: 3	FLAMMABILITY: 0 INSTABILITY: 0 SPECIAL HAZARDS: Refer to Section 2 & 3.
	LE: $0 = Minimal$ $1 = Slight$ $2 = Moderate$ $3 = Serious$ $4 = Severe$
	sition 65: This product contains Silica, Crystalline (Quartz) that is known to the State of California to cause cancer or other
reproductive har	
	Section 16. Other information
	st revision of the safety data sheet February 16, 2016, version 1
References	Safety Data Sheets from manufacturer/supplier & from Canadian Centre for Occupational Health and Safety, CCOHS.
Abbreviations	
ACCILL	
ACGIH	American Conference of Governmental Industrial Hygienists
ATE	Acute toxicity estimate
ATE CAS	Acute toxicity estimate Chemical Abstract Service
ATE CAS CFR	Acute toxicity estimate Chemical Abstract Service Code of Federal Regulations
ATE CAS CFR DSL	Acute toxicity estimate Chemical Abstract Service Code of Federal Regulations Domestic Substance List
ATE CAS CFR DSL IARC	Acute toxicity estimate Chemical Abstract Service Code of Federal Regulations Domestic Substance List International Agency for Research on Cancer
ATE CAS CFR DSL IARC IATA	Acute toxicity estimate Chemical Abstract Service Code of Federal Regulations Domestic Substance List International Agency for Research on Cancer International Air Transport Association
ATE CAS CFR DSL IARC IATA IMDG	Acute toxicity estimate Chemical Abstract Service Code of Federal Regulations Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code
ATE CAS CFR DSL IARC IATA IMDG LC	Acute toxicity estimate Chemical Abstract Service Code of Federal Regulations Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration
ATE CAS CFR DSL IARC IATA IMDG LC LD	Acute toxicity estimate Chemical Abstract Service Code of Federal Regulations Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage
ATE CAS CFR DSL IARC IATA IMDG LC LD NIOSH	Acute toxicity estimate Chemical Abstract Service Code of Federal Regulations Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health
ATE CAS CFR DSL IARC IATA IMDG LC LD NIOSH NTP	Acute toxicity estimate Chemical Abstract Service Code of Federal Regulations Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.)
ATE CAS CFR DSL IARC IATA IMDG LC LD NIOSH NTP OSHA	Acute toxicity estimate Chemical Abstract Service Code of Federal Regulations Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.)
ATE CAS CFR DSL IARC IATA IMDG LC LD NIOSH NTP OSHA PEL	Acute toxicity estimate Chemical Abstract Service Code of Federal Regulations Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.) Permissible Exposure Limit
ATE CAS CFR DSL IARC IATA IMDG LC LD NIOSH NTP OSHA PEL STEL	Acute toxicity estimate Chemical Abstract Service Code of Federal Regulations Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.) Permissible Exposure Limit Short-term Exposure Limit
ATE CAS CFR DSL IARC IATA IMDG LC LD NIOSH NTP OSHA PEL STEL TDG	Acute toxicity estimate Chemical Abstract Service Code of Federal Regulations Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.) Permissible Exposure Limit Short-term Exposure Limit Transport of dangerous goods in Canada
ATE CAS CFR DSL IARC IATA IMDG LC LD NIOSH NTP OSHA PEL STEL TDG TLV	Acute toxicity estimate Chemical Abstract Service Code of Federal Regulations Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.) Permissible Exposure Limit Short-term Exposure Limit Transport of dangerous goods in Canada Threshold Limit Value
ATE CAS CFR DSL IARC IATA IMDG LC LD NIOSH NTP OSHA PEL STEL TDG TLV TSCA	Acute toxicity estimate Chemical Abstract Service Code of Federal Regulations Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.) Permissible Exposure Limit Short-term Exposure Limit Transport of dangerous goods in Canada Threshold Limit Value Toxic Substances Control Act
ATE CAS CFR DSL IARC IATA IMDG LC LD NIOSH NTP OSHA PEL STEL TDG TLV TSCA TWA	Acute toxicity estimate Chemical Abstract Service Code of Federal Regulations Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.) Permissible Exposure Limit Short-term Exposure Limit Transport of dangerous goods in Canada Threshold Limit Value Toxic Substances Control Act Time Weighted Average
ATE CAS CFR DSL IARC IATA IMDG LC LD NIOSH NTP OSHA PEL STEL TDG TLV TSCA TWA WHMIS	Acute toxicity estimate Chemical Abstract Service Code of Federal Regulations Domestic Substance List International Agency for Research on Cancer International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.) Permissible Exposure Limit Short-term Exposure Limit Transport of dangerous goods in Canada Threshold Limit Value Toxic Substances Control Act Time Weighted Average Workplace Hazardous Materials Information System
ATE CAS CFR DSL IARC IATA IMDG LC LD NIOSH NTP OSHA PEL STEL TDG TLV TSCA TWA WHMIS To the best of our	Acute toxicity estimate Chemical Abstract Service Code of Federal Regulations Domestic Substance List International Agency for Research on Cancer International Air Transport Association International Maritime Dangerous Goods Code Lethal concentration Lethal concentration Lethal Dosage National Institute for Occupational Safety and Health National Toxicology Program (U.S.A.) Occupational Safety and Health Administration (U.S.A.) Permissible Exposure Limit Short-term Exposure Limit Transport of dangerous goods in Canada Threshold Limit Value Toxic Substances Control Act Time Weighted Average

liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.