

MURSATT MATERIAL SAFETY DATA SHEET

SECTION I MATERIAL IDENTIFICATION

PRODUCT IDENTIFIER	CAL HYPO	CODE: M63
MANUFACTURER	MURSATT CHEMICALS LIMITED	
ADDRESS	71 CARLAUREN ROAD, WOODBRIDGE, ONT., L4L 8A8	
MANUFACTURER'S PHONE	(905) 850-8444	
EMERGENCY PHONE	CANUTEC (613) 996-6666	
PRODUCT USE	SWIMMING POOL SANITIZER	
PROPOSED WHMIS CLASS	[C] OXIDIZER, [E] CORROSIVE	

SECTION II HAZARDOUS INGREDIENTS

CHEMICAL IDENTITY	% w/w	CAS #	UN	LD50 (mg/kg)	LC50 (mg/m ³)
CALCIUM HYPOCHLORITE	65% min	7778-54-3	2880	850 (ORAL,RATS)	NOT AVAILABLE
CALCIUM HYDROXIDE	3-7%				
CALCIUM CARBONATE	1-2.5%	1305-62-0	N/A	NOT AVAILABLE	NOT AVAILABLE
		471-34-1	N/A	NOT AVAILABLE	NOT AVAILABLE

SECTION III PHYSICAL DATA

STATE	SOLID	ODOUR	STRONG CHLORINE
APPEARANCE	WHITE GRANULES	ODOUR THRESHOLD	0.02-0.35 PPM CHLORINE
SPECIFIC GRAVITY	1.00-1.05 g/ml	VAPOUR PRESSURE	NOT AVAILABLE
pH	10.7	VAPOUR DENSITY	NOT AVAILABLE
BOILING POINT °C	NOT AVAILABLE	EVAPORATION RATE	NOT AVAILABLE
FREEZING POINT °C	NOT AVAILABLE	COEF. WATER/OIL DISTRIBUTION	NOT AVAILABLE

SECTION IV FIRE AND EXPLOSION DATA

FLASHPOINT °C & METHOD	NONE
UPPER FLAMMABLE LIMIT (% VOLUME)	NOT APPLICABLE
LOWER FLAMMABLE LIMIT (% VOLUME)	NOT APPLICABLE
CONDITIONS OF FLAMMABILITY	MAY FORM EXPLOSIVE MIXTURES WITH COMBUSTIBLE, ORGANIC OR OTHER OXIDIZING MATERIALS
MEANS OF EXTINCTION	FLOOD WITH WATER TO COOL CONTAINERS. DO NOT USE DRY EXTINGUISHERS CONTAINING AMMONIUM COMPOUNDS.
AUTO IGNITION TEMPERATURE	NOT APPLICABLE
HAZARDOUS COMBUSTION PRODUCTS	CHLORINE AND OTHER HAZARDOUS GASES.
EXPLOSION DATA	NOT APPLICABLE
SENSITIVITY TO STATIC DISCHARGE	NOT AVAILABLE

SECTION V REACTIVITY DATA

CHEMICAL STABILITY	HEAT, ACIDS AND ORGANIC COMPOUNDS MAY CAUSE HAZARDOUS DECOMPOSITION. SMALL AMOUNTS OF WATER ADDED TO CALCIUM HYPOCHLORITE MAY GENERATE ENOUGH HEAT TO INITIATE THE DECOMPOSITION.
INCOMPATIBLE MATERIALS	OTHER CHLORINE COMPOUNDS, FLAMMABLE OR COMBUSTIBLE MATERIALS, ORGANIC MATERIALS, NITROGEN-CONTAINING COMPOUNDS, ACIDS. REACTS WITH WATER TO FORM BLEACH SOLUTION.
CONDITIONS OF REACTIVITY	CONTACT WITH INCOMPATIBLE MATERIALS.
HAZARDOUS DECOMPOSITION PRODUCTS	CHLORINE, OXYGEN

SECTION VI TOXICOLOGICAL PROPERTIES
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ROUTE OF ENTRY:	EYE CONTACT	[X]	INGESTION	[X]
	SKIN CONTACT	[X]	INHALATION	[X]
	SKIN ABSORPTION	[X]		

EFFECTS OF ACUTE EXPOSURE	CORROSIVE TO EYES. MAY CAUSE IMPAIRMENT OF VISION AND CORNEAL DAMAGE. CORROSIVE TO SKIN. IF INGESTED, MAY CAUSE BURNS TO MOUTH, THROAT AND DIGESTIVE TRACT, WITH NAUSEA, VOMITING, DIARRHEA, ABDOMINAL PAIN, BLEEDING AND/OR TISSUE ULCERATION. IF INHALED, MAY CAUSE IRRITATION OF NOSE, THROAT AND LUNGS, WITH PRODUCTION OF LUNG EDEMA WHICH CAN RESULT IN SHORTNESS OF BREATH, WHEEZING, CHOKING, CHEST PAIN AND IMPAIRMENT OF LUNG FUNCTION.
EFFECTS OF CHRONIC EXPOSURE	REPEATED EXPOSURE MAY CAUSE LUNG DAMAGE.
EXPOSURE LIMITS	ACGIH TLV-TWA: NOT ESTABLISHED. OSHA PEL: NOT ESTABLISHED
IRRITANCY OF PRODUCT	SEVERE IRRITANT TO EYES, SKIN AND MUCOUS MEMBRANES.
SENSITIZATION	NOT AVAILABLE
EVIDENCE OF CARCINOGENICITY, REPRODUCTIVE TOXICITY, TERATOGENICITY OR MUTAGENICITY	NONE KNOWN
TOXICOLOGICALLY SYNERGISTIC PRODUCTS	NONE KNOWN

SECTION VII PREVENTATIVE MEASURES
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PERSONAL PROTECTIVE EQUIPMENT	GOGGLES OR FACE SHIELD. PVC OR NEOPRENE GLOVES. NIOSH-APPROVED RESPIRATOR IF EXPOSURE LIMITS ARE EXCEEDED. PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT.
ENGINEERING CONTROLS	DUST/MIST FILTER. SAFETY SHOWER AND EYE WASH FOUNTAIN
LEAK & SPILL PROCEDURE	LOCAL EXHAUST.
WASTE DISPOSAL	KEEP INCOMPATIBLES AWAY FROM SPILL. VENTILATE AREA. FOR SMALL SPILLS, SWEEP UP FOR DISPOSAL. FLUSH AREA WITH PLENTY OF WATER. RESTRICT ACCESS WHERE LARGE SPILLS.
HANDLING PROCEDURES & EQUIPMENT	DISSOLVE IN WATER, TREAT THE AVAILABLE CHLORINE WITH A REDUCING AGENT. IN ACCORDANCE WITH FEDERAL, PROVINCIAL AND MUNICIPAL ENVIRONMENTAL REGULATIONS.
STORAGE REQUIREMENTS	WASH AFTER HANDLING. USE GOOD INDUSTRIAL HYGIENE.
SPECIAL SHIPPING INFORMATION	STORE IN A COOL, DRY, WELL-VENTILATED PLACE, AWAY FROM INCOMPATIBLES. KEEP OUT OF SUN.
	CLASS 5.1, PG II, UN 2880

SECTION VIII FIRST AID MEASURES
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EYE CONTACT	FLUSH WITH WATER FOR 20 MINS. CONTACT PHYSICIAN ASAP.
SKIN CONTACT	FLUSH WITH WATER FOR 15 MINS. CONTACT PHYSICIAN ASAP.
INGESTION	DO NOT INDUCE VOMITING. RINSE MOUTH WITH WATER. GIVE VICTIM 1 GLASS OF WATER. NEVER GIVE ANYTHING BY MOUTH IF VICTIM IS UNCONSCIOUS. CONTACT PHYSICIAN IMMEDIATELY.
INHALATION	REMOVE TO FRESH AIR. ASSIST BREATHING IF NECESSARY. IF IRRITATION PERSISTS, CONTACT PHYSICIAN.

SECTION IX PREPARATION DATA

PREPARED BY: MURSATT TECHNICAL DEPT.

DATE PREPARED: MAR 28/08

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