

MURSATT MATERIAL SAFETY DATA SHEET

SECTION I MATERIAL IDENTIFICATION

PRODUCT IDENTIFIER	NU-BLU	CODE: M29
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	COAGULANT	
PROPOSED WHMIS CLASS	[E] CORROSIVE	

SECTION II HAZARDOUS INGREDIENTS

CHEMICAL IDENTITY	% w/w	CAS #	UN	LD50 (mg/kg)	LC50 (mg/m ³)
ALUMINUM CHLORIDE HYDROXIDE SULPHATE	15-40	39290-78-3	3264	1280 (ORAL, RAT)	2 mg/m ³ (AI)

SECTION III PHYSICAL DATA

STATE	LIQUID	ODOUR	SLIGHT
APPEARANCE	CLEAR BLUE	ODOUR THRESHOLD	NOT AVAILABLE
SPECIFIC GRAVITY	1.205 ± 0.003 (H ₂ O = 1)	VAPOUR PRESSURE	17 mm Hg
pH	2.6 ± 0.3	VAPOUR DENSITY	1.3 (AIR = 1)
BOILING POINT °C	102 @ 760 mm Hg	EVAPORATION RATE	SLOW
FREEZING POINT °C	-12 ± 2	COEF. WATER/OIL DISTRIBUTION	GREATER THAN 1

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	NOT APPLICABLE
MEANS OF EXTINCTION	USE WATER SPRAY TO COOL FORE EXPOSED CONTAINERS
AUTO IGNITION TEMPERATURE	NOT APPLICABLE
HAZARDOUS COMBUSTION PRODUCTS	UNDER FIRE CONDITIONS, HCl GAS MAY BE RELEASED
EXPLOSION DATA	NOT APPLICABLE
SENSITIVITY TO STATIC DISCHARGE	NOT APPLICABLE

SECTION V REACTIVITY DATA

CHEMICAL STABILITY	DOES NOT UNDERGO SELF POLYMERIZATION OR DECOMPOSITION
INCOMPATIBLE MATERIALS	REACTS WITH ZINC AND ALUMINUM TO FORM HYDROGEN GAS. CONTACT WITH STRONG ALKALIES MAY GENERATE HEAT, SPLATTERING OR BOILING AND TOXIC VAPOURS
CONDITIONS OF REACTIVITY	HIGH TEMPERATURE DECOMPOSITION. AVOID CONTACT WITH ALKALIS AND METAL.
HAZARDOUS DECOMPOSITION PRODUCTS	UNDER FIRE CONDITIONS, HCl GAS MAY BE RELEASED

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	SMALL QUANTITIES: NAUSEA, VOMITING, STOMACH CRAMPS, DIARRHEA. LARGE QUANTITIES: ULCERATION AND NECROSIS OF THE MUCOUS MEMBRANES IN THE THROAT, MOUTH, AND ESOPHAGI PLUS SMALL QUANTITY EFFECTS, LIVER OR KIDNEY DAMAGE, INTENSE THIRST
EFFECTS OF CHRONIC EXPOSURE	MIST WILL IRRITATE RESPIRATORY TRACT. POSSIBLE DERMATITIS
EXPOSURE LIMITS	
IRRITANCY OF PRODUCT	MODERATE SKIN AND EYE
SENSITIZATION	NOT AVAILABLE
EVIDENCE OF CARCINOGENICITY,	NOT AVAILABLE
REPRODUCTIVE TOXICITY,	NOT AVAILABLE
TERATOGENICITY OR MUTAGENICITY	NOT AVAILABLE
TOXICOLOGICALLY SYNERGISTIC PRODUCTS	NONE KNOWN

SECTION VII PREVENTATIVE MEASURES
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PERSONAL PROTECTIVE EQUIPMENT	GOGGLES OR FACE SHIELD. RUBBER OR NEOPRENE GLOVES. IMPERMEABLE APRON AND BOOTS, PANTS AND COAT.
ENGINEERING CONTROLS	LOCAL VENTILATION
LEAK & SPILL PROCEDURE	NEUTRALIZE WITH SODA ASH AND SOAK UP WITH ABSORBANT MATERIAL. FLUSH AREA WITH WATER.
WASTE DISPOSAL	IN ACCORDANCE WITH FEDERAL, PROVINCIAL AND MUNICIPAL ENVIRONMENTAL REGULATIONS.
HANDLING PROCEDURES & EQUIPMENT	ENSURE THAT ALL CONTAINERS ARE LABELED. TREAT AS ANY DILUTE ACID. AVOID CONTACT WITH METAL. AVOID SKIN AND EYE CONTACT. WEAR APPROPRIATE PROTECTIVE CLOTHING.
STORAGE REQUIREMENTS	STORE IN COOL, DRY, RUBBER-LINED, PLASTIC FRP VESSELS
SPECIAL SHIPPING INFORMATION	CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S., (ALUMINUM CHLORIDE HYDROXIDE SULPHATE), CLASS 8, PG III, UN3264 "LIMITED QUANTITY", PACKAGED IN 1 LTR BOTTLES.

SECTION VIII FIRST AID MEASURES
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EYE CONTACT	FLUSH WITH WATER FOR 15 MINUTES. CONTACT PHYSICIAN.
SKIN CONTACT	WASH WITH SOAP AND WATER. CONTACT PHYSICIAN.
INGESTION	IF CONSCIOUS, GIVE TWO (2) GLASSES OF WATER. DO NOT INDUCE VOMITING. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CONTACT PHYSICIAN.
INHALATION	REMOVE TO FRESH AIR. ADMINISTER OXYGEN OR ARTIFICIAL RESPIRATION IF REQUIRED.

SECTION IX PREPARATION DATA

PREPARED BY: MURSATT TECHNICAL DEPT.

DATE PREPARED: MAR 28/08

All information in this MSDS is obtained from sources considered to be reliable and is believed to be correct, however, it is submitted without any warrantee. The data are offered solely for your consideration, investigation and verification.