

MATERIAL SAFETY DATA SHEET

MURSATT CHEMICALS LIMITED 11 REGALCREST COURT WOODBRIDGE; ONTARIO, CANADA; L4L 8P3 (905)-850-8444

PRODUCT: NU-BLU

CODE: MUR0041

Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

	MANUFACTURER/SUPPLIER	MURSATT CHEMICALS LIMITED 11 REGALCREST COURT WOODBRIDGE, ONTARIO CANADA L4L 8P3
I	PREPARED BY	REGULATORY AFFAIRS
I	PREPARATION DATE	May06/14
I	PRODUCT NAME	
I	PRODUCT CODE	MUR0041
I	CHEMICAL FORMULA	N.AV.
I	MOLECULAR WEIGHT	
I	CHEMICAL FAMILY	N.AV.
I	MATERIAL USE	COAGULANT FOR THE TREATMENT OF SWIMMING POOLS AND SPA WATERS.
	EMERGENCY PHONE NO	CANUTEC (613)-996-6666.
ſ		

Section 02: HAZARDS IDENTIFICATION

ROUTE OF ENTRY: SKIN CONTACT SKIN ABSORPTION EYE CONTACT INHALATION INGESTION EFFECTS OF ACUTE EXPOSURE EFFECTS OF CHRONIC EXPOSU	

CAUSES MODERATE SKIN IRRITATION. N.AV. CAUSES EYE IRRITATION. MAY CAUSE IRRITATION OF THE RESPIRATORY TRACT. GASTROINTESTINAL IRRITATION. SEE ABOVE. REPEATED OR PROLONGED SKIN CONTACT MAY CAUSE: SKIN IRRITATION DRY SKIN. MAY CAUSE IRREVERSIBLE EYE DAMAGE.

Section 03: COMPOSITION/INFORMATION ON INGREDIENTS					
Hazardous Ingredients	%	Exposure Limit	C.A.S.#	LD/50, Route,Species	LC/50 Route, Species
ALUMINUM CHLORIDE HYDROXIDE SULFATE	30-35	SEE SECTION 11	39290-78-3	SEE SECTION 11	SEE SECTION 11

Section 04: FIRST AID MEASURES

EYE CONTACT	RINSE IMMEDIATELY WITH PLENTY OF WATER, ALSO UNDER THE EYELIDS, FOR AT LEAST 10 MINUTES. IF POSSIBLE USE LUKEWARM WATER. SEEK MEDICAL
SKIN CONTACT	ADVICE. WASH OFF IMMEDIATELY WITH PLENTY OF WATER REMOVING ALL CONTAMINATED CLOTHES AND SHOES. GET MEDICAL ATTENTION IF IRRITATION
INHALATION	DEVELOPS AND PERSISTS. IF BREATHING IS DIFFICULT, REMOVE TO FRESH AIR AND PROVIDE OXYGEN. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. SEEK MEDICAL ATTENTION IF
INGESTION	COUGH OR OTHER SYMPTOMS DEVELOP. DO NOT INDUCE VOMITING WITHOUT MEDICAL ADVICE. NEVER GIVE ANYTHING
NOTES TO PHYSICIAN	BY MOUTH TO AN UNCONSCIOUS PERSON. DRINK 1 OR 2 GLASSES OF WATER. OBTAIN MEDICAL ATTENTION. N.AV.

Section 05: FIRE FIGHTING MEASURES

T.D.G. FLAM. CLASS FLAMMABILITY EXTINGUISHING MEDIA	NON FLAMMABLE. USE EXTINGUISHING MEASURES THAT ARE APPROPRIATE TO LOCAL
SPECIAL FIREFIGHTING PROCEDURES FLASH POINT (C), METHOD	N.AP.
AUTO IGNITION TEMPERATURE UPPER FLAMMABLE LIMIT (% BY VOL.) LOWER FLAMMABLE LIMIT (% BY VOL.)	N.AP. N.AP.
EXPLOSION DATA EXPLOSIVE POWER RATE OF BURNING	DOES NOT BURN.
SENSITIVITY TO STATIC DISCHARGE SENSITIVITY TO IMPACT HAZARDOUS COMBUSTION PRODUCTS	NONE. NONE. ALUMINIUM COMPOUNDS, SULPHUR OXIDES, HYDROGEN CHLORIDE.

00010702

MATERIAL SAFETY DATA SHEET

CODE: MUR0041

Page 2

PRODUCT: NU-BLU

Section 06: ACCIDENTAL RELEASE MEASURES

Section 06: ACCIDENTAL RELEASE MEASURES				
ENVIRONMENTAL PRECAUTIONS	WEAR PERSONAL PROTECTIVE EQUIPMENT. SHOULD NOT BE RELEASED INTO THE SOIL, SURFACE WATER OR GROUND WATER SYSTEM. MUST BE DISPOSED OF IN ACCORDANCE WITH LOCAL AND NATIONAL REGULATIONS. SMALL AMOUNTS: ABSORB WITH MATERIALS SUCH AS; CLAY. OR NEUTRALIZE WITH LIME OR SODA. COLLECT FOR SUBSEQUENT DISPOSAL. LARGE AMOUNTS: IN CASE OF LARGE SPILLAGE, CONTAIN BY DAMMING UP. COLLECT BY PUMP OR WITH SUITABLE INERT ABSORBENT MATERIAL. NEUTRALIZE WITH LIME OR SODA. FLUSH AWAY TRACES WITH WATER.			
Section	07: HANDLING AND STORAGE			
STORAGE	AVOID CONTACT WITH SKIN, EYES AND CLOTHING. WASH CONTACT AREAS AFTER HANDLING. STORE IN ORIGINAL CONTAINER. FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED BECAUSE THEY MAY RETAIN PRODUCT RESIDUES. STORE IN CORROSIVE RESISTANT STAINLESS STEEL CONTAINER WITH A RESISTANT INNER LINER. PLASTIC WITH FIBERGLASS REINFORCEMENT OR PLASTIC. KEEP CONTAINERS TIGHTLY CLOSED IN A COOL, WELL-VENTILATED PLACE. SUITABLE MATERIAL: BUTYL-RUBBER, PLASTIC.			
Section 08: EXPOS	URE CONTROLS AND PERSONAL PROTECTION			
EYE/TYPE FOOTWEAR/TYPE CLOTHING/TYPE OTHER/TYPE	WHEN THERE IS POTENTIAL FOR AIRBORNE EXPOSURES IN EXCESS OF APPLICABLE LIMITS, WEAR NIOSH/MSHA APPROVED RESPIRATORY PROTECTION. TIGHTLY FITTING SAFETY GOGGLES OR FACE-SHIELD.			
Section 09: P	Section 09: PHYSICAL AND CHEMICAL PROPERTIES			
PHYSICAL STATE ODOUR THRESHOLD. VAPOUR PRESSURE (MMHG) VAPOUR DENSITY (AIR=1) EVAPORATION RATE. BOILING POINT. FREEZING POINT. PH. SPECIFIC GRAVITY (WATER=1). SOLUBILITY IN WATER (% W/W) COEFFICIENT OF WATER/OIL DIST	SLIGHT. N.AV. N.AV. 1.3. N.AV. 102 (C). -12 (C). 1.8 - 3.4. 1.16 - 1.30. COMPLETE.			
Section 1	10: STABILITY AND REACTIVITY			
	AVOID EXTREME TEMPERATURES. IRON, STEEL, METALS (INCLUDING THEIR ALLOYS). CORRODES BASE METALS. CARBON STEEL, ALUMINIUM, CARBON, BRASS, NYLON, MINERAL ACIDS, BASES, ALKALINE MATERIALS. SULPHUR OXIDES (SOX), ALUMINIUM OXIDE, HYDROGEN CHLORIDE GAS.			
Section 11: TOXICOLOGICAL INFORMATION				
LD 50 OF MATERIAL, SPECIES & ROUTE CARCINOGENICITY OF MATERIAL	NONE ESTABLISHED. ALUMINIUM CHLORIDE HYDROXIDE SULFATE: LC50/INHALATION/4 H/RAT: > 5 MG/L. ALUMINIUM CHLORIDE HYDROXIDE SULFATE: LD50/ORAL/RAT: 2,360 MG/KG; LD50/DERMAL/RAT/MALE AND FEMALE: > 2,000 MG/KG. ALUMINUM CHLORIDE HYDROXIDE SULFATE. IARC: NOT LISTED. ALUMINIUM CHLORIDE HYDROXIDE SULFATE: ORAL/RAT/FEMALE/REPRODUCTIVE EFFECTS/OECD TEST GUIDELINE 452: NOAEL: 3,225 MG/KG; NOAEL F1: REMARKS:			

00010702

MATERIAL SAFETY DATA SHEET

CODE: MUR0041

PRODUCT: NU-BLU

Section 11: TOXICOLOGICAL INFORMATION

REPRODUCTIVE EFFECTS	READ-ACROSS (ANALOGY) CAS-NO. 31142-56-0, NO KNOWN EFFECT.
	ORAL/RAT/MALE AND FEMALE/SCREENING TEST/OECD TEST GUIDELINE 422:
	NOAEL: 1,000 MG/KG; NOAEL F1: REMARKS: READ-ACROSS (ANALOGY) 1327-41-9 NO KNOWN EFFECT. NOT BELIEVED TO BE TOXIC FOR REPRODUCTION.
IRRITANCY OF MATERIAL	ALUMINIUM CHLORIDE HYDROXIDE SULFATE: SKIN: RABBIT/OECD TEST
	GUIDELINE 404: NO IRRITATING EFFECTS. EYES: RABBIT/72 H/OECD TEST
	GUIDELINE 405: NO EYE IRRITATION.
SENSITIZING CAPABILITY OF MATERIAL.	ALUMINIUM CHLORIDE HYDROXIDE SULFATE: GUINEA PIG/OECD TEST GUIDELINE
	406 REMARKS: READ-ACROSS (ANALOGY) CAS-NO. 12042-91-0 NOT SENSITIZING.
SYNERGISTIC MATERIALS	N.AV.
MUTAGENICITY	ALUMINIUM CHLORIDE HYDROXIDE SULFATE: MUTAGENICITY (SALMONELLA
	TYPHIMURIUM - REVERSE MUTATION ASSAY)/AMES TEST/OECD TEST GUIDELINE
	471: RESULT: NEGATIVE, METABOLIC ACTIVATION: WITH AND WITHOUT. IN VITRO
	MAMMALIAN CELLS/MICRONUCLEUS TEST/OECD TEST GUIDELINE 487: RESULT:
	NEGATIVE, METABOLIC ACTIVATION: WITH AND WITHOUT, REMARKS:
	READ-ACROSS (ANALOGY) 1327-41-9. IN VITRO GENE MUTATION STUDY IN
	MAMMALIAN CELLS/LYMPHOMA/OECD TEST GUIDELINE 476: RESULT: NEGATIVE,
	METABOLIC ACTIVATION: WITH AND WITHOUT, REMARKS: READ-ACROSS
	(ANALOGY) 1327-41-9.
TERATOGENICITY	ALUMINIUM CHLORIDE HYDROXIDE SULFATE: ORAL/RAT/OECD TEST GUIDELINE
	452: NOAEL: 1,075 MG/KG READ-ACROSS (ANALOGY) DID NOT SHOW MUTAGENIC
	OR TERATOGÉNIC EFFECTS IN ANIMAL EXPERIMENTS. CAS NO. 31142-56-0.

Section 12: ECOLOGICAL CONSIDERATIONS

ECOLOGICAL INFORMATION...... N.AV.

Section 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL...... DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

Section 14: TRANSPORT INFORMATION

8.

3264.

TDG CLASSIFICATION.....

PROPER SHIPPING NAME...... CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (ALUMINUM CHLORIDE HYDROXIDE SULFATE). SPECIAL SHIPPING INSTRUCTIONS....... CORROSIVE MATERIAL.

Section 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION..... CPR COMPLIANCE.....

E THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL THE INFORMATION REQUIRED BY THE CPR.

Section 16: OTHER INFORMATION

N.AP.=NOT APPLICABLE N.AV.=NOT AVAILABLE OTHER INFORMATION.....

THE DATA IN THIS MSDS RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED HEREIN AND DOES NOT RELATE TO USE IN COMBINATION WITH ANY OTHER MATERIAL OR IN ANY PROCESS. THIS DATA IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS PRODUCT SPECIFICATIONS. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS HEREBY MADE. THE RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTEXT OF THE INTENDED USE AND DETERMINE WHETHER THET ARE APPROPRIATE.