



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

PRODUCT: SPA FLUSH

CODE: MUR0067

SECTION 01: IDENTIFICATION

PRODUCT CODE..... MUR0067
 PRODUCT IDENTIFIER..... SPA FLUSH
 OTHER MEANS OF IDENTIFICATION..... N.AV.
 RECOMMENDED USE AND HOT TUB TUBE CLEANER.
 RESTRICTIONS ON USE
 SUPPLIER IDENTIFIER..... MURSATT CHEMICALS LIMITED
 11 REGALCREST COURT
 WOODBRIDGE, ONTARIO
 CANADA
 L4L 8P3
 EMERGENCY PHONE NO..... CANUTEC (613)-996-6666.

SECTION 02: HAZARD IDENTIFICATION

HAZARD CLASSIFICATION..... EYE IRRITATION - CATEGORY 2B .
 SIGNAL WORD..... WARNING.
 HAZARD STATEMENT..... N.AP. H320 CAUSES EYE IRRITATION.
 PRECAUTIONARY STATEMENT..... P264 WASH SKIN THOROUGHLY AFTER HANDLING. P305+P351+P338 IF IN EYES:
 RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT
 LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. P337+P313 IF EYE
 IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION.
 OTHER HAZARDS..... NONE.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
SODIUM BICARBONATE	144-55-8	1-5
ALCOHOL ETHOXYLATE	68991-48-0	1-5

SECTION 04: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:
 EYE CONTACT..... REMOVE CONTACTS. FLUSH WITH WATER FOR AT LEAST 15 MINUTES,
 OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. GET MEDICAL
 ATTENTION IMMEDIATELY.
 SKIN CONTACT..... THOROUGHLY WASH EXPOSED SKIN WITH SOAP AND WATER. REMOVE ANY
 CONTAMINATED CLOTHING AND WASH BEFORE REUSE.
 INHALATION..... REMOVE TO FRESH AIR. IF SYMPTOMS PERSIST CONSULT PHYSICIAN.
 INGESTION..... WASH OUT MOUTH WITH WATER. DRINK PLENTY OF WATER. DO NOT INDUCE
 VOMITING UNLESS DIRECTED BY MEDICAL PERSONAL. NEVER GIVE ANYTHING
 TO AN UNCONSCIOUS PERSON. GET MEDICAL AID.
 MOST IMPORTANT SYMPTOMS AND N.AV.
 EFFECTS, ACUTE OR DELAYED:
 INDICATION OF ANY IMMEDIATE MEDICAL TREATMENT BASED ON JUDGMENT OF ATTENDING PHYSICIAN.
 ATTENTION AND SPECIAL TREATMENT
 NEEDED

SECTION 05: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA..... FLOOD WITH WATER FOR EXTINGUISHING AGENT. CO2, DRY CHEMICAL,
 ALCOHOL RESISTANT, FOAM.
 UNSUITABLE EXTINGUISHING MEDIA..... N.AV.
 SPECIAL HAZARDS ARISING FROM THE THERMAL DECOMPOSITION RELEASES IRRITATING GASES.
 PRODUCT:
 HAZARDOUS COMBUSTION PRODUCTS. CARBON OXIDES.
 SPECIAL PROTECTIVE EQUIPMENT AND SELF-CONTAINED POSITIVE PRESSURE BREATHING APPARATUS (MSHA/NIOSH
 PRECAUTIONS FOR FIRE-FIGHTERS: APPROVED OR EQUIVALENT) AND FULL PROTECTIVE CLOTHING.

SECTION 06: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS..... DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING. DO NOT BREATHE MIST. WEAR
 APPROPRIATE PROTECTIVE EQUIPMENT. EVACUATE UNNECESSARY
 ENVIRONMENTAL PRECAUTIONS..... PERSONNEL. VENTILATE AREA OF LEAK OR SPILL.
 PREVENT ENTRY TO SEWERS AND PUBLIC WATERS.

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SECTION 06: ACCIDENTAL RELEASE MEASURES

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP CONTAIN ANY SPILLS WITH DIKES TO PREVENT MIGRATION AND ENTRY INTO SEWERS OR STREAMS. CLEAR UP SPILLS IMMEDIATELY WITH ABSORBENT AND DISPOSE OF WASTE SAFELY.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:..... ENSURE GOOD VENTILATION/EXHAUSTION AT THE WORKPLACE.
 CONDITIONS FOR SAFE STORAGE, AVOID STORAGE NEAR EXTREME HEAT. STORE AWAY FROM FOODSTUFFS.
 INCLUDING ANY INCOMPATIBILITIES: STORE IN COOL, DRY CONDITIONS IN WELL SEALED RECEPTACLES. STORE RECEPTACLE IN A WELL VENTILATED AREA. KEEP CONTAINER TIGHTLY SEALED.

SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENTS	ACGIH TLV		PEL	OSHA PEL		REL	NIOSH
	TWA	STEL		STEL	STEL		
SODIUM BICARBONATE	N.A.V.	N.A.V.	N.A.V.	N.A.V.	N.A.V.	N.A.V.	
ALCOHOL ETHOXYLATE	N.A.V.	N.A.V.	N.A.V.	N.A.V.	N.A.V.	N.A.V.	
APPROPRIATE ENGINEERING CONTROLS PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION.							
INDIVIDUAL PROTECTION MEASURE SUCH AS PERSONAL PROTECTIVE EQUIPMENTS:							
HAND PROTECTION.....	WEAR IMPERVIOUS PROTECTIVE GLOVES.						
RESPIRATORY PROTECTION.....	USE NIOSH/MSHA APPROVED EQUIPMENT WHEN AIRBORNE EXPOSURE IS EXCESSIVE.						
EYE PROTECTION.....	CHEMICAL SAFETY GOGGLES.						
PROTECTIVE CLOTHING.....	WEAR IMPERVIOUS PROTECTIVE CLOTHING.						
PROTECTIVE FOOTWEAR.....	WEAR IMPERVIOUS PROTECTIVE BOOTS.						
OTHER.....	EYE WASH STATION AND SAFETY SHOWER SHOULD BE LOCATED NEAR THE WORK STATION.						
HYGIENIC PRACTICES.....	USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, OR SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE CONTAMINATED CLOTHING AND WASH THOROUGHLY BEFORE REUSE.						

SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... CLEAR LIQUID.
 COLOR..... DARK BLUE.
 ODOUR..... LAVENDER.
 ODOUR THRESHOLD
 PH..... 7.5 - 8.5.
 FREEZING/MELTING POINT..... N.A.V.
 BOILING POINT..... EST 100 C / 212 F.
 FLASH POINT (C), METHOD..... N.A.V.
 EVAPORATION RATE..... N.A.V.
 FLAMMABILITY (SOLIDS AND GASES)..... N.A.V.
 UPPER FLAMMABLE LIMIT (% BY VOL.)... N.A.P.
 LOWER FLAMMABLE LIMIT (% BY VOL.)... N.A.P.
 VAPOUR PRESSURE (MMHG)..... N.A.V.
 VAPOUR DENSITY (AIR=1)..... N.A.V.
 RELATIVE DENSITY..... 1.012.
 SOLUBILITY IN WATER (% W/W)..... SOLUBLE.
 COEFFICIENT OF WATER/OIL DIST..... N.A.V.
 AUTO IGNITION TEMPERATURE..... N.A.V.
 DECOMPOSITION TEMPERATURE..... N.A.V.
 VISCOSITY..... N.A.V.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:..... CONTACT WITH INCOMPATIBLES.
 CHEMICAL STABILITY:..... STABLE UNDER NORMAL CONDITIONS OF HANDLING AND STORAGE.
 POSSIBILITY OF HAZARDOUS HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
 REACTIONS:
 CONDITIONS TO AVOID..... CONTACT WITH INCOMPATIBLES.
 INCOMPATIBLE MATERIALS:..... OXIDIZING AGENTS, ACIDS.
 HAZARDOUS PRODUCTS OF CARBON OXIDES.
 DECOMPOSITION

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SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
SODIUM BICARBONATE	N.AV.	N.AV.
ALCOHOL ETHOXYLATE	N.AV.	N.AV.
INFORMATION ON LIKELY ROUTES OF ENTRY:		
SKIN CONTACT.....	SLIGHT IRRITATION.	
SKIN ABSORPTION.....	N.AV.	
EYE CONTACT.....	SLIGHT IRRITATION.	
INHALATION.....	SPECIFIC TEST DATA FOR SUBSTANCE/MIXTURE NOT AVAILABLE.	
INGESTION.....	SPECIFIC TEST DATA FOR SUBSTANCE/MIXTURE NOT AVAILABLE. MAY BE HARMFUL IF SWALLOWED.	
EFFECTS OF ACUTE EXPOSURE.....	SEE ABOVE.	
EFFECTS OF CHRONIC EXPOSURE.....	N.AV.	
SIGNS AND SYMPTOMS OF OVEREXPOSURE		
CARCINOGENICITY OF MATERIAL.....	IARC: NOT LISTED.	
TERATOGENICITY.....	N.AV.	
MUTAGENICITY.....	N.AV.	
REPRODUCTIVE EFFECTS.....	N.AV.	
SENSITIZING CAPABILITY OF MATERIAL	N.AV.	
SYNERGISTIC MATERIALS.....	N.AV.	

SECTION 12: ECOLOGICAL CONSIDERATIONS

ECOTOXICITY.....	N.AV.
PERSISTENCE AND DEGRADATION.....	N.AV.
BIOACCUMULATIVE POTENTIAL.....	N.AV.
MOBILITY IN SOIL.....	N.AV.
OTHER ADVERSE EFFECTS.....	N.AV.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS:..... DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

SECTION 14: TRANSPORT INFORMATION

UN NUMBER.....	N.AP.
PROPER SHIPPING NAME.....	N.AP.
TDG CLASSIFICATION.....	NOT REGULATED.
PACKING GROUP.....	N.AP.
ENVIRONMENTAL HAZARDS ACCORDING TO THE INTERNATIONAL MARITIME DANGEROUS GOODS CODE AND THE UNITED NATIONS MODEL REGULATIONS:	N.AV.
SPECIAL PRECAUTIONS IN CONNECTION WITH TRANSPORT OR CONVEYANCE EITHER WITHIN OR OUTSIDE THE PREMISES:	N.AV.

SECTION 15: REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL REGULATIONS SPECIFIC TO THE PRODUCT: N.AV.

SECTION 16: OTHER INFORMATION

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

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SECTION 16: OTHER INFORMATION

OTHER INFORMATION..... 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 THEY ARE APPROPRIATE.

PREPARED BY..... REGULATORY AFFAIRS

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