SAFETY DATA SHEET

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

PRODUCT: SPRAY & RINSE

SECTION 01: IDENTIFICATION

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

SECTION 02: HAZARD IDENTIFICATION



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PRODUCT: SPRAY & RINSE

SECTION 02: HAZARD IDENTIFICATION

PRECAUTIONARY STATEMENT	OUTDOORS OR IN A WELL-VENTILATED AREA. P312 CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL. P403+P233 STORE IN A
	WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED. P201 OBTAIN SPECIAL INSTRUCTIONS BEFORE USE. P202 DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. P308+P313 IF EXPOSED OR
OTHER HAZARDS	CONCERNED: GET MEDICAL ADVICE/ATTENTION. NONE.

SECTION 42. COMPOSITION/INFORMATION ON INORFOIENTS

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS			
HAZARDOUS INGREDIENTS	CAS #	WT. %	
DISODIUM METASILICATE	6834-92-0	8	
GLYCOL ETHER DB	112-34-5	~5	
NONYLPHENOL ETHOXYLATE	9016-45-9	1-2	
TETRASODIUM ETHYLENEDIAMINE TETRAACETATE TETRAHYDRATE	13235-36-4	<1	
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE	53516-76-0	<1	
ALKYL(C12-14) DIMETHYL(ETHYLBENZYL) AMMONIUM CHLORIDE	85409-23-0	<1	
SODIUM NITRITE	7632-00-0	<1	

SECTION 04: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:

	EYE CONTACT	IN CASE OF CONTACT, OR SUSPECTED CONTACT, IMMEDIATELY FLUSH EYES
		WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL
		ATTENTION IMMEDIATELY AFTER FLUSHING.
	SKIN CONTACT	IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR
		AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. REMOVE CONTAMINATED
		CLOTHING AND LAUNDER BEFORE REUSE.
	INHALATION	REMOVE PERSON TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL
		RESPIRATION. IF BREATHING IS DIFFICULT, GET IMMEDIATE MEDICAL ATTENTION.
	INGESTION	DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN
		UNCONSCIOUS OR CONVULSING PERSON. SEEK IMMEDIATE MEDICAL
		ATTENTION. IF VOMITING OCCURS SPONTANEOUSLY, KEEP HEAD BELOW HIPS
		TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS.
Ν	OST IMPORTANT SYMPTOMS AND	SEE SECTION 11.
E	FFECTS, ACUTE OR DELAYED:	

INDICATION OF ANY IMMEDIATE MEDICAL NOTES TO PHYSICIAN: TREATMENT BASED ON SOUND JUDGMENT OF PHYSICIAN ATTENTION AND SPECIAL TREATMENT AND INDIVIDUAL REACTIONS OF PATIENT. NEEDED

SECTION 05: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA UNSUITABLE EXTINGUISHING MEDIA	USE DRY CHEMICALS, CO2, ALCOHOL FOAM OR WATER SPRAY. N.AV.
SPECIAL HAZARDS ARISING FROM THE PRODUCT:	ISOLATE AND RESTRICT AREA ACCESS. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS AND STRUCTURES. FIGHT FIRE FROM A SAFE
	DISTANCE AND FROM A PROTECTED LOCATION. DO NOT DIRECT A SOLID STREAM OF WATER OR FOAM INTO HOT, BURNING POOLS; THIS MAY CAUSE
	FROTHING AND INCREASE FIRE INTENSITY. THIS MATERIAL MAY PRODUCE A FLOATING FIRE HAZARD IN EXTREME FIRE CONDITIONS. CONTAINER MAY
	RUPTURE FROM GAS GENERATION IN A FIRE SITUATION.
HAZARDOUS COMBUSTION PRODUCTS.	CARBON DIOXIDE, CARBON MONOXIDE. TOXIC FUMES. ACRID SMOKE AND IRRITATING FUMES. OXIDES OF NITROGEN.
SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS:	FIRE FIGHTERS SHOULD WEAR FULL PROTECTIVE CLOTHING, INCLUDING SELF-CONTAINED BREATHING EQUIPMENT.

SECTION 06: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

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KEEP UNNECESSARY PERSONNEL AWAY. KEEP PEOPLE AWAY FROM AND UPWIND OF SPILL/LEAK. ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS, OR FLAMES IN IMMEDIATE AREA). WEAR APPROPRIATE

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PRODUCT: SPRAY & RINSE SECTION 06: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS	PROTECTIVE EQUIPMENT AND CLOTHING DURING CLEAN-UP. DO NOT BREATHE
	MIST OR VAPOR. DO NOT TOUCH DAMAGED CONTAINERS OR SPILLED MATERIAL
	UNLESS WEARING APPROPRIATE PROTECTIVE CLOTHING. VENTILATE CLOSED SPACES BEFORE ENTERING THEM. LOCAL AUTHORITIES SHOULD BE ADVISED IF
	SIGNIFICANT SPILLAGES CANNOT BE CONTAINED. FOR PERSONAL PROTECTION,
	SEE SECTION 8 OF THE SDS.
ENVIRONMENTAL PRECAUTIONS	AVOID RELEASE TO THE ENVIRONMENT. PREVENT FURTHER LEAKAGE OR SPILLAGE IF SAFE TO DO SO. AVOID DISCHARGE INTO DRAINS, WATER COURSES
	OR ONTO THE GROUND. INFORM APPROPRIATE MANAGERIAL OR SUPERVISORY
	PERSONNEL OF ALL ENVIRONMENTAL RELEASES. USE APPROPRIATE
	CONTAINMENT TO AVOID ENVIRONMENTAL CONTAMINATION.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP	ISOLATE SPILL AND STOP LEAK WHERE SAFE. ABSORB WITH AN INERT DRY MATERIAL AND PLACE IN AN APPROPRIATE WASTE DISPOSAL CONTAINER.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:.....AVOID CONTACT WITH EYES, SKIN AND CLOTHING. AVOID BREATHING IN DUST.
KEEP THE CONTAINERS CLOSED WHEN NOT IN USE. WASH THOROUGHLY AFTER
HANDLING..CONDITIONS FOR SAFE STORAGE,KEEP CONTAINERS TIGHTLY CLOSED. STORE IN CLEAN, TIGHTLY CLOSED STEEL
CONTAINERS. PLACE AWAY FROM INCOMPATIBLE MATERIAL. DO NOT STORE IN
ALUMINUM, FIBERGLASS, COPPER, BRASS, ZINC OR GALVANIZED CONTAINERS.
STORE IN COOL, DRY AND WELL VENTILATED LOCATION. STORE LOCKED UP.

SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

	100				NIOSU
INGREDIENTS	TWA	IH TLV STEL	OSHA PEL	STEL	NIOSH REL
DISODIUM METASILICATE	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
GLYCOL ETHER DB	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
NONYLPHENOL ETHOXYLATE	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
TETRASODIUM ETHYLENEDIAMINE TETRAACETATE TETRAHYDRATE	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
ALKYL(C12-14) DIMETHYL(ETHYLBENZ YL) AMMONIUM CHLORIDE	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
SODIUM NITRITE	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
APPROPRIATE ENGINE INDIVIDUAL PROTECTI SUCH AS PERSONAL F EQUIPMENTS:	ION MEASURE	GENERAL VENTILATIO MAINTAIN EXPOSURE			ECESSARY TO
HAND PROTECTION. RESPIRATORY PROT	FECTION	WEAR IMPERVIOUS C IF MIST OR VAPOUR I RESPIRATOR.			SH APPROVED
EYE PROTECTION		CHEMICAL GOGGLES SPLASHING IS A POS		LDS SHOULD BE WO	RN WHERE
PROTECTIVE CLOTH	IING	APRON, COVERALLS	AND/OR OTHER RES	SISTANT PROTECTIVE	E CLOTHING.
PROTECTIVE FOOTV OTHER HYGIENIC PRACTICES			SISTANT FOOTWEAF ND SAFETY SHOWE L HYGIENE PRACTION NG, OR USING TOIL	R IN WORK AREA. CES. WASH HANDS B ET FACILITIES. PROM	IPTLY REMOVE

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE COLOR ODOUR ODOUR THRESHOLD PH FREEZING/MELTING POINT BOILING POINT FLASH POINT (C), METHOD EVAPORATION RATE ELAMMABILITY (SOLIDS AND GASES)	LIQUID. LIGHT BLUE. LIGHT BLUE. SLIGHT SWEET. N.AV. 12.2. N.AV. N.AV. N.AV. N.AV. N.AV. N.AV. N.AV.
FLAMMABILITY (SOLIDS AND GASES) UPPER FLAMMABLE LIMIT (% BY VOL.)	N.AV. N.AV. N.AV.
LOWER FLAMMABLE LIMIT (% BY VOL.) VAPOUR PRESSURE (MMHG) VAPOUR DENSITY (AIR=1)	N.AV. N.AV. N.AV.
RELATIVE DENSITY	1.03. SOLUBLE.
SOLUBILITY IN WATER (% W/W) COEFFICIENT OF WATER/OIL DIST AUTO IGNITION TEMPERATURE	N.AV. N.AV.
DECOMPOSITION TEMPERATURE	N.AV. N.AV.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY: CHEMICAL STABILITY:	
POSSIBILITY OF HAZARDOUS REACTIONS:	HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
CONDITIONS TO AVOID	CONTACT WITH ICOMPATIBLES. PRODUCT CAN OXIDIZE AT ELEVATED TEMPERATURES. GENERATION OF GAS DURING DECOMPOSITION CAN CAUSE
	PRESSURE IN CLOSED SYSTEMS.
INCOMPATIBLE MATERIALS:	CONTACT WITH ACIDS. GENERATES HEAT WHEN MIXED WITH ACID. MAY REACT WITH AMMONIUM SALT SOLUTIONS RESULTING IN EVOLUTION OF AMMONIA GAS.
	FLAMMABLE HYDROGEN GAS MAY BE PRODUCED ON CONTACT WITH ALUMINUM,
	TIN, LEAD, AND ZINC. CARBON MONOXIDE GAS MAY BE PRODUCED ON CONTACT WITH REDUCING SUGARS. STRONG OXIDIZING AGENTS, STRONG BASES.
	ALKALIS. ORGANIC MATTER. COMBUSTIBLE MATERIAL. REDUCING AGENTS. THIOSULFATES. THIOCYANATES. AMMONIUM COMPOUNDS.
HAZARDOUS PRODUCTS OF DECOMPOSITION	

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
DISODIUM METASILICATE	N.AV.	1153 MG/KG (ORAL, RAT); 770 MG/KG (ORAL, MOUSE)
GLYCOL ETHER DB	N.AV.	3384 MG/KG (ORAL, RAT);) 2700 MG/KG (DERMAL, RABBIT)
NONYLPHENOL ETHOXYLATE	N.AV.	1310 MG/KG (ORAL, RAT); >50 G/KG (ORAL, MOUSE); 2 ML/KG (DERMAL, RABBIT)
TETRASODIUM ETHYLENEDIAMINE TETRAACET TETRAHYDRATE	ATE N.AV.	N.AV.
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIE	DE N.AV.	3560 MG/KG (DERMAL); 430 MG/KG (ORAL)
ALKYL(C12-14) DIMETHYL(ETHYLBENZYL) AMM CHLORIDE	DNIUM N.AV.	3560 MG/KG (DERMAL); 430 MG/KG (ORAL)
SODIUM NITRITE	5.5 MG/L 4 H (INH, RAT)	85 MG/KG (ORAL, RAT)
INFORMATION ON LIKELY ROUTES OF ENTRY: SKIN CONTACT		

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SECTION 11: TOXICOLOGICAL INFORMATION

EFFECTS OF CHRONIC EXPOSURE	SUBCHRONIC DATA: IN A STUDY OF RATS FED SODIUM SILICATE IN DRINKING WATER FOR THREE MONTHS, AT 200, 600 AND 1800 PPM, CHANGES WERE REPORTED IN THE BLOOD CHEMISTRY OF SOME ANIMALS, BUT NO SPECIFIC CHANGES TO THE ORGANS OF THE ANIMALS DUE TO SODIUM SILICATE ADMINISTRATION WERE OBSERVED IN ANY OF THE DOSAGE GROUPS. ANOTHER STUDY REPORTED ADVERSE EFFECTS TO THE KIDNEYS OF DOGS FED SODIUM SILICATE IN THEIR DIET AT 2.4G/KG/DAY FOR 4 WEEKS, WHEREAS RATS FED THE SAME DOSAGE DID NOT DEVELOP ANY TREATMENT-RELATED EFFECTS. DECREASED NUMBERS OF BIRTHS AND SURVIVAL TO WEANING WAS REPORTED FOR RATS FED SODIUM SILICATE IN THEIR DRINKING WATER AT 600 AND 1200 PPM.
SIGNS AND SYMPTOMS OF OVEREXPOSURE	
CARCINOGENICITY OF MATERIAL	SODIUM NITRITE: IARC – 2A PROBABLY CARCINOGENIC TO HUMANS (NITRATE OR NITRITE (INGESTED) UNDER CONDITIONS THAT RESULT IN ENDOGENOUS NITROSATION).
TERATOGENICITY MUTAGENICITY	N.AV.
REPRODUCTIVE EFFECTS	N.AV.
SENSITIZING CAPABILITY OF MATERIAL SYNERGISTIC MATERIALS	

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 PROPER SHIPPING NAME	1760. CORR
TDG CLASSIFICATION	8.
PACKING GROUP	III.
ENVIRONMENTAL HAZARDS ACCORDING	N.AV.
TO THE INTERNATIONAL MARITIME	
DANGEROUS GOODS CODE AND THE	
UNITED NATIONS MODEL REGULATIONS:	
SPECIAL PRECAUTIONS IN CONNECTION	N.AV.
WITH TRANSPORT OR CONVEYANCE	
EITHER WITHIN OR OUTSIDE THE	
PREMISES:	

ORROSIVE LIQUIDS, N.O.S. (DISODIUM TRIOXOSILICATE).

SECTION 15: REGULATORY INFORMATION

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

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
	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.
PREPARED BY	REGULATORY AFFAIRS
PREPARATION DATE	JAN 1/2024