



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

PRODUCT: FAST-FLO

CODE: MUR0048

### SECTION 01: IDENTIFICATION

PRODUCT CODE..... MUR0048  
 PRODUCT IDENTIFIER..... FAST-FLO  
 OTHER MEANS OF IDENTIFICATION..... N.AV.  
 RECOMMENDED USE AND ..... N.AV.  
 RESTRICTIONS ON USE  
 SUPPLIER IDENTIFIER..... MURSATT CHEMICALS LIMITED  
 11 REGALCREST COURT  
 WOODBRIIDGE, ONTARIO  
 CANADA  
 L4L 8P3  
 EMERGENCY PHONE NO..... CANUTEC (613)-996-6666.

### SECTION 02: HAZARD IDENTIFICATION



HAZARD CLASSIFICATION..... SERIOUS EYE DAMAGE - CATEGORY 1. CARCINOGENICITY — CATEGORY 1A.  
 SIGNAL WORD..... DANGER.  
 HAZARD STATEMENT..... H318 CAUSES SERIOUS EYE DAMAGE. H350 MAY CAUSE CANCER THROUGH  
 PROLONGED OR REPEATED EXPOSURE.  
 PRECAUTIONARY STATEMENT..... P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE  
 PROTECTION/FACE PROTECTION. P305+P351+P338 IF IN EYES: RINSE  
 CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES,  
 IF PRESENT AND EASY TO DO. CONTINUE RINSING. P310 IMMEDIATELY CALL A  
 POISON CENTER OR DOCTOR/PHYSICIAN. P201 OBTAIN SPECIAL INSTRUCTIONS  
 BEFORE USE. P202 DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE  
 BEEN READ AND UNDERSTOOD. P308+P313 IF EXPOSED OR CONCERNED: GET  
 MEDICAL ADVICE/ATTENTION. P405 STORE LOCKED UP. P501 DISPOSE OF  
 CONTENTS/CONTAINER TO APPROPRIATE WASTE SITE OR RECLAIMER IN  
 ACCORDANCE WITH LOCAL AND NATIONAL REGULATIONS.  
 OTHER HAZARDS..... NONE.

### SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
SODIUM BISULFATE	7681-38-1	85
SODIUM CHLORIDE	7647-14-5	10
SODIUM CARBONATE	497-19-8	4
SILICA, CRISTOBALITE	14464-46-1	UP TO 1.2
QUARTZ	14808-60-7	UP TO 0.1

### SECTION 04: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:  
 EYE CONTACT..... IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 20 MINUTES,  
 OCCASIONALLY LIFTING THE UPPER AND LOWER EYELIDS. IF REDNESS OR  
 IRRITATION PERSISTS, GET PROMPT MEDICAL ATTENTION.  
 SKIN CONTACT..... IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR  
 AT LEAST 20 MINUTES. IF SKIN IRRITATION OCCURS, SEEK MEDICAL ATTENTION.  
 INHALATION..... MOVE EXPOSED PERSON TO FRESH AIR. IF NOT BREATHING, IF BREATHING IS  
 IRREGULAR OR IF RESPIRATORY ARREST OCCURS, PROVIDE ARTIFICIAL  
 RESPIRATION OR OXYGEN BY TRAINED PERSONNEL. IF IRRITATION OR  
 DISCOMFORT PERSISTS, SEEK MEDICAL ATTENTION.

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**SECTION 04: FIRST AID MEASURES**

INGESTION..... WASH OUT MOUTH WITH WATER. DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. CALL MEDICAL DOCTOR OR POISON CONTROL CENTER IMMEDIATELY.

MOST IMPORTANT SYMPTOMS AND ..... SEE SECTION 11.

EFFECTS, ACUTE OR DELAYED:  
INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED

NO ACTION SHALL BE TAKEN INVOLVING ANY PERSONAL RISK OR WITHOUT SUITABLE TRAINING. CONTACT POISON TREATMENT SPECIALIST IMMEDIATELY IF LARGE QUANTITIES HAVE BEEN INGESTED OR INHALED.

**SECTION 05: FIRE FIGHTING MEASURES**

SUITABLE EXTINGUISHING MEDIA..... USE AN EXTINGUISHING AGENT SUITABLE FOR THE SURROUNDING FIRE.

UNSUITABLE EXTINGUISHING MEDIA..... NONE KNOWN.

SPECIAL HAZARDS ARISING FROM THE PRODUCT:  
HAZARDOUS COMBUSTION PRODUCTS. DECOMPOSITION PRODUCTS MAY INCLUDE SULFUR OXIDES.

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS: FIRE-FIGHTERS SHOULD WEAR APPROPRIATE PROTECTIVE EQUIPMENT AND SELF-CONTAINED BREATHING APPARATUS (SCBA) WITH A FULL FACE-PIECE OPERATED IN POSITIVE PRESSURE MODE.

**SECTION 06: ACCIDENTAL RELEASE MEASURES**

PERSONAL PRECAUTIONS..... DO NOT BREATHE DUST. PROVIDE ADEQUATE VENTILATION. PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8).

ENVIRONMENTAL PRECAUTIONS..... AVOID DISPERSAL OF SPILLED MATERIAL AND RUNOFF AND CONTACT WITH SOIL, WATERWAYS, DRAINS AND SEWERS.

METHODS AND MATERIALS FOR ..... STOP LEAK IF WITHOUT RISK. PREVENT ENTRY INTO SEWERS, WATER COURSES, CONTAINMENT AND CLEANING UP BASEMENTS OR CONFINED AREAS. VACUUM OR SWEEP UP MATERIAL AND PLACE IN A DESIGNATED, LABELED WASTE CONTAINER. DISPOSE OF VIA A LICENSED WASTE DISPOSAL CONTRACTOR.

**SECTION 07: HANDLING AND STORAGE**

PRECAUTIONS FOR SAFE HANDLING:..... AVOID DUST CLOUD FORMATION. AVOID BREATHING DUST. AVOID CONTACT WITH EYES, SKIN OR CLOTHING. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

CONDITIONS FOR SAFE STORAGE, ..... MATERIAL IS HYGROSCOPIC AND WILL READILY ABSORB MOISTURE. DO NOT INCLUDING ANY INCOMPATIBILITIES: STORE IN A COOL, DRY, WELL-VENTILATED AREA AWAY FROM INCOMPATIBLE MATERIALS. KEEP CONTAINERS TIGHTLY CLOSED WHEN NOT IN USE.

**SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

INGREDIENTS	TWA	ACGIH TLV		PEL	OSHA PEL		REL	NIOSH
		STEL	STEL		STEL	STEL		
SODIUM BISULFATE	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
SODIUM CHLORIDE	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
SODIUM CARBONATE	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
SILICA, CRISTOBALITE	0.025 MG/M3 (RESPIRABLE FRACTION)	N.AV.	N.AV.	0.05 MG/M3	N.AV.	N.AV.	N.AV.	N.AV.
QUARTZ	0.025 MG/M3 (RESPIRABLE FRACTION)	N.AV.	N.AV.	0.05 MG/M3	N.AV.	N.AV.	N.AV.	N.AV.
APPROPRIATE ENGINEERING CONTROLS	USE ONLY WITH ADEQUATE VENTILATION. USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS TO KEEP WORKER EXPOSURE TO AIRBORNE CONTAMINANTS BELOW ANY RECOMMENDED OR STATUTORY LIMITS.							
INDIVIDUAL PROTECTION MEASURE SUCH AS PERSONAL PROTECTIVE EQUIPMENTS:								
HAND PROTECTION.....	USE GLOVES APPROPRIATE FOR WORK OR TASK BEING PERFORMED. RECOMMENDED: RUBBER GLOVES.							
RESPIRATORY PROTECTION.....	IN DUSTY ATMOSPHERES (>10 MG/M3), USE A NIOSH-APPROVED DUST RESPIRATOR.							

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**SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION**

EYE PROTECTION..... SAFETY GLASSES WITH SIDE SHIELDS OR CHEMICAL GOGGLES.  
 PROTECTIVE CLOTHING..... COTTON-BLEND COVERALLS.  
 PROTECTIVE FOOTWEAR..... IMPERVIOUS BOOTS.  
 OTHER..... ENSURE THAT EYEWASH STATIONS AND SAFETY SHOWERS ARE PROXIMAL TO THE WORK-STATION LOCATION.  
 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..... SOLID.  
 COLOR..... OFF-WHITE.  
 ODOUR..... FRESH TO PUNGENT.  
 ODOUR THRESHOLD..... N.AV.  
 PH..... <1 @ 5% AQUEOUS SOLUTION.  
 MELTING/FREEZING POINT..... 350° F (177° C).  
 BOILING POINT..... N.AP.  
 FLASH POINT (C), METHOD..... N.AP.  
 EVAPORATION RATE..... N.AP.  
 FLAMMABILITY (SOLIDS AND GASES)..... N.AV.  
 UPPER FLAMMABLE LIMIT (% BY VOL.)... N.AP.  
 LOWER FLAMMABLE LIMIT (% BY VOL.)... N.AP.  
 VAPOUR PRESSURE (MMHG)..... N.AV.  
 VAPOUR DENSITY (AIR=1)..... N.AV.  
 RELATIVE DENSITY..... 1.28.  
 SOLUBILITY IN WATER (% W/W)..... PARTIALLY SOLUBLE IN COLD WATER AND HOT WATER.  
 COEFFICIENT OF WATER/OIL DIST..... N.AV.  
 AUTO IGNITION TEMPERATURE..... N.AV.  
 DECOMPOSITION TEMPERATURE..... N.AV.  
 VISCOSITY..... N.AP.

**SECTION 10: STABILITY AND REACTIVITY**

REACTIVITY:..... HAZARDOUS POLYMERISATION WILL NOT OCCUR.  
 CHEMICAL STABILITY:..... STABLE.  
 POSSIBILITY OF HAZARDOUS REACTIONS:..... UNDER NORMAL CONDITIONS OF STORAGE AND USE, HAZARDOUS REACTIONS WILL NOT OCCUR.  
 CONDITIONS TO AVOID..... DO NOT STORE DRY PRODUCT WHERE EXPOSED TO MOIST CONDITIONS.  
 INCOMPATIBLE MATERIALS:..... REACTIVE OR INCOMPATIBLE WITH THE FOLLOWING MATERIALS: OXIDIZING MATERIALS, ACIDS AND ALKALIS. DO NOT MIX DRY OR CONCENTRATED SOLUTIONS OF THIS PRODUCT WITH CONCENTRATED SOLUTIONS OF CHLORINE BLEACH, AMMONIA CLEANSERS OR SIMILAR PRODUCTS. HYDROFLUORIC ACID.  
 HAZARDOUS PRODUCTS OF DECOMPOSITION..... SILICON DIOXIDES. UNDER NORMAL CONDITIONS OF STORAGE AND USE, HAZARDOUS DECOMPOSITION PRODUCTS SHOULD NOT BE PRODUCED.

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
SODIUM BISULFATE	N.AV.	2800 MG/KG (ORAL, RAT)
SODIUM CHLORIDE	42 G/M3 1H (INH, RAT).	3 G/KG (ORAL, RAT); 10 G/KG (DERMAL, RABBIT)
SODIUM CARBONATE	2300 MG/M3 (IHL, RAT) - 2H	4090 MG/KG (ORAL, RAT); 2210 MG/KG (DERMAL, MOUSE)
SILICA, CRISTOBALITE	N.AV.	N.AV.
QUARTZ	N.AV.	500 MG/KG (ORAL, RAT)
INFORMATION ON LIKELY ROUTES OF ENTRY:		
INHALATION.....	INHALATION OF DUST MAY IRRITATE NOSE, THROAT AND/OR LUNGS.	
SKIN CONTACT.....	PROLONGED EXPOSURE MAY CAUSE SKIN IRRITATION.	
SKIN ABSORPTION.....	N.AV.	
EYE CONTACT.....	CAUSES SERIOUS EYE IRRITATION.	
INGESTION.....	SMALL AMOUNTS (TABLESPOONFUL) SWALLOWED ARE NOT LIKELY TO CAUSE INJURY; HOWEVER, SWALLOWING LARGE AMOUNTS MAY IRRITATE OR BURN DIGESTIVE TRACT.	
EFFECTS OF ACUTE EXPOSURE.....	SEE ABOVE.	

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**SECTION 11: TOXICOLOGICAL INFORMATION**

EFFECTS OF CHRONIC EXPOSURE.....	CONTAINS CRYSTALLINE SILICA (QUARTZ) WHICH HAS BEEN CLASSIFIED BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) AS CARCINOGENIC TO HUMANS (GROUP 1). INHALATION OVEREXPOSURE TO FREE CRYSTALLINE SILICA MAY CAUSE DELAYED LUNG INJURY INCLUDING SILICOSIS, A DISABLING AND POTENTIALLY FATAL LUNG DISEASE. INHALATION EXPOSURE TO RESPIRABLE LEVELS OF CRYSTALLINE SILICA MAY CAUSE RESPIRATORY IMPAIRMENT AND LUNG DAMAGE.
SIGNS AND SYMPTOMS OF ..... OVEREXPOSURE	INHALATION - ADVERSE SYMPTOMS MAY INCLUDE RESPIRATORY TRACT IRRITATION, COUGHING. EYES - ADVERSE SYMPTOMS MAY INCLUDE PAIN, WATERING, REDNESS. .
CARCINOGENICITY OF MATERIAL.....	CONTAINS CRYSTALLINE SILICA (QUARTZ) WHICH HAS BEEN CLASSIFIED BY THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) AS CARCINOGENIC TO HUMANS (GROUP 1). .
TERATOGENICITY.....	NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.
MUTAGENICITY.....	NO KNOWN SIGNIFICANT EFFECTS OR CRITICAL HAZARDS.
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 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
PREPARATION DATE.....	APR 18/2017