



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

PRODUCT: FAST-FLO

CODE: MUR0048

**Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

MANUFACTURER/SUPPLIER..... MURSATT CHEMICALS LIMITED  
11 REGALCREST COURT  
WOODBIDGE, ONTARIO  
CANADA  
L4L 8P3  
PREPARED BY..... REGULATORY AFFAIRS  
PREPARATION DATE..... Jul21/08  
PRODUCT NAME..... FAST-FLO  
PRODUCT CODE..... MUR0048  
CHEMICAL FORMULA..... MIXTURE.  
MOLECULAR WEIGHT..... MIXTURE.  
CHEMICAL FAMILY..... INORGANIC.  
MATERIAL USE..... FILTER CLEANER.  
EMERGENCY PHONE NO..... CANUTEC (613)-996-6666.

**Section 02: COMPOSITION/INFORMATION ON INGREDIENTS**

Hazardous Ingredients	%	Exposure Limit	C.A.S.#	LD/50, Route, Species	LC/50 Route, Species
SODIUM BISULFATE	60-100	SEE SECTION 11	7681-38-1	SEE SECTION 11	SEE SECTION 11
SODIUM CHLORIDE	7-13	SEE SECTION 11	7647-14-5	SEE SECTION 11	SEE SECTION 11
SODIUM CARBONATE	1-5	SEE SECTION 11	497-19-8	SEE SECTION 11	SEE SECTION 11
SODIUM SULFATE	3-7	SEE SECTION 11	7757-82-6	SEE SECTION 11	SEE SECTION 11
CRYSTALLINE SILICA	<0.1	SEE SECTION 11	14808-60-7	SEE SECTION 11	SEE SECTION 11

**Section 03: HAZARDS IDENTIFICATION**

ROUTE OF ENTRY:  
SKIN CONTACT..... PROLONGED EXPOSURE MAY CAUSE MODERATE IRRITATION. MAY CAUSE BURN IF NOT FLUSHED WITH WATER. .  
SKIN ABSORPTION..... N.AV.  
EYE CONTACT..... CAUSES MILD TO SEVERE IRRITATION. MAY CAUSE BURN IF NOT FLUSHED WITH WATER.  
INHALATION..... INHALATION OF DUST MAY IRRITATE OR BURN NOSE, THROAT AND LUNGS.  
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..... WARNING: CAUSES EYE IRRITATION. MAY CAUSE SKIN AND RESPIRATORY TRACT IRRITATION. AVOID CONTACT WITH EYES AND SKIN. AVOID BREATHING DUST. WASH EXPOSED SKIN THOROUGHLY AFTER HANDLING.  
EFFECTS OF CHRONIC EXPOSURE..... LONG TERM INHALATION OF DUST LEVELS IN EXCESS OF THE PEL MAY CAUSE LUNG DISEASE (SILICOSIS).  
INHALATION, CHRONIC..... N.AV.  
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE..... PRE-EXISTING RESPIRATORY CONDITIONS.

**Section 04: FIRST AID MEASURES**

EYE CONTACT..... IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES, LIFTING EYELIDS TO THOROUGHLY FLUSH. IF REDNESS OR IRRITATION PERSISTS, GET PROMPT MEDICAL ATTENTION.  
SKIN CONTACT..... IMMEDIATELY FLUSH AFFECTED AREA WITH WATER FOR AT LEAST 15 MINUTES. IF BURN OCCURS, SEEK IMMEDIATE MEDICAL ATTENTION.  
INGESTION..... IF LARGE AMOUNTS ARE INGESTED (GREATER THAN TABLESPOONFUL), DRINK LARGE QUANTITIES OF MILK OR WATER. FOLLOW WITH MILK OF MAGNESIA, BEATEN EGGS OR VEGETABLE OIL. DO NOT INDUCE VOMITING. CONTACT PHYSICIAN IMMEDIATELY.  
INHALATION..... REMOVE TO FRESH AIR. IF IRRITATION OR DISCOMFORT PERSISTS, SEEK MEDICAL ATTENTION.  
NOTES TO PHYSICIAN..... SUPPORTIVE CARE. TREATMENT BASED ON JUDGMENT OF THE PHYSICIAN IN RESPONSE TO REACTIONS OF THE PATIENT. MAY AGGRAVATE PRE-EXISTING RESPIRATORY CONDITIONS.

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**Section 05: FIRE FIGHTING MEASURES**

T.D.G. FLAM. CLASS.....	NON FLAMMABLE.
FLAMMABILITY.....	NON FLAMMABLE.
IF YES, UNDER WHICH CONDITIONS?	
EXTINGUISHING MEDIA.....	USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE. BECAUSE MATERIAL WILL READILY DISSOLVE IN WATER TO FORM A WEAK ACID SOLUTION, AVOID WATER CONTACT WITH MATERIAL IF POSSIBLE.
SPECIAL PROCEDURES.....	PRODUCT READILY DISSOLVES IN WATER TO FORM A WEAK ACID SOLUTION. IF USING WATER, WEAR ACID PROTECTIVE EQUIPMENT. NO GASES OR TOXIC FUMES ARE EMITTED FROM THIS REACTION. HOWEVER, IF ELEVATED TEMPERATURES (> 806 F) ARE REACHED, SELF-CONTAINED BREATHING APPARATUS SHOULD BE WORN.
FLASH POINT (C), METHOD.....	N.AP.
AUTO IGNITION TEMPERATURE.....	N.AV.
UPPER FLAMMABLE LIMIT (% BY VOL.)...	N.AP.
LOWER FLAMMABLE LIMIT (% BY VOL.)...	N.AP.
EXPLOSION DATA.....	N.AV.
EXPLOSIVE POWER.....	N.AV.
RATE OF BURNING.....	N.AV.
SENSITIVITY TO STATIC DISCHARGE.....	N.AV.
SENSITIVITY TO IMPACT.....	N.AV.
HAZARDOUS COMBUSTION PRODUCTS..	AT TEMPERATURES OVER 806 F (430° C), PRODUCT WILL DECOMPOSE GENERATING OXIDES OF SULFUR.

**Section 06: ACCIDENTAL RELEASE MEASURES**

LEAK/SPILL.....	PERSONAL PRECAUTIONS: USE PERSONAL PROTECTION RECOMMENDED IN SECTION 8. LAND SPILL: VACUUM OR SHOVEL MATERIAL AND PLACE IN DISPOSAL CONTAINER. AVOID EXCESSIVE DUST GENERATION. DILUTE RESIDUAL MATERIAL WITH AMPLE SUPPLY OF WATER AND DIRECT TO SANITARY SEWER IF FEDERAL, PROVINCIAL OR LOCAL REGULATIONS PERMIT. WATER SPILL: READILY DISSOLVES IN WATER TO FORM A WEAK ACID SOLUTION. IF WATER IS ISOLATED OR CAN BE CONTAINED, NEUTRALIZE WITH WEAK ALKALINE SOLUTION.
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**Section 07: HANDLING AND STORAGE**

HANDLING PROCEDURES AND EQUIPMENT .....	WEAR ALL RECOMMENDED PERSONAL PROTECTIVE CLOTHING WHEN HANDLING. AVOID CONTACT WITH EYES. WASH THOROUGHLY AFTER HANDLING. MINIMIZE DUST GENERATION. AVOID BREATHING DUST.
STORAGE NEEDS.....	MATERIAL IS HYGROSCOPIC AND WILL READILY ABSORB MOISTURE. KEEP CONTAINERS TIGHTLY CLOSED. DO NOT STORE WHERE EXPOSED TO MOIST CONDITIONS. DO NOT STORE NEAR STRONG ALKALIS.

**Section 08: EXPOSURE CONTROLS/PERSONAL PROTECTION**

GLOVES/ TYPE.....	RUBBER GLOVES.
RESPIRATORY/TYPE.....	NIOSH APPROVED RESPIRATOR IF PEL IS EXCEEDED.
EYE/TYPE.....	SAFETY GLASSES OR GOGGLES.
FOOTWEAR/TYPE.....	IMPERVIOUS BOOTS.
CLOTHING/TYPE.....	COTTON-BLEND COVERALLS.
OTHER/TYPE.....	GENERAL HYGIENE CONSIDERATIONS: THERE ARE NO KNOWN HEALTH HAZARDS ASSOCIATED WITH THIS MATERIAL WHEN USED AS RECOMMENDED. FOLLOW GOOD INDUSTRIAL HYGIENE PRACTICES INCLUDING BUT NOT LIMITED TO: (1) AVOID BREATHING DUST; (2) AVOID CONTACT WITH EYES; AND (3) WASH THOROUGHLY AFTER HANDLING.
ENGINEERING CONTROLS.....	PROVIDE GENERAL AND/OR LOCAL EXHAUST VENTILATION TO MAINTAIN AIRBORNE PARTICULATE BELOW NUISANCE LEVELS (>10 MG/M <sup>3</sup> ).

**Section 09: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE.....	OFF-WHITE GRANULAR MATERIAL.
ODOUR.....	FRESH TO PUNGENT.
ODOUR THRESHOLD.....	N.AV.
VAPOUR PRESSURE (MMHG).....	N.AV.
VAPOUR DENSITY (AIR=1).....	N.AV.
BY VOLUME	
BY WEIGHT	
EVAPORATION RATE.....	N.AP.
BOILING POINT.....	N.AP.
PH.....	N.AP.
SPECIFIC GRAVITY (WATER=1).....	N.AV.
SOLUBILITY IN WATER (% W/W).....	N.AV.
COEFFICIENT OF WATER/OIL DIST.....	N.AV.

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**Section 10: STABILITY AND REACTIVITY**

CHEMICAL STABILITY:  
 YES..... STABLE.  
 NO, WHICH CONDITIONS?  
 CONDITIONS TO AVOID..... DO NOT STORE DRY PRODUCT WHERE EXPOSED TO MOIST CONDITIONS.  
 CONTACT WITH ACIDS EXCEPT UNDER CONTROLLED CONDITIONS. .

COMPATABILITY WITH OTHER  
 SUBSTANCES:  
 YES  
 NO, WHICH ONES?..... AVOID CONTACT WITH STRONG ALKALINE MATERIAL SUCH AS CAUSTIC.  
 DISSOLVES READILY IN WATER TO FORM A WEAK ACID SOLUTION. DO NOT MIX  
 DRY OR CONCENTRATED SOLUTIONS OF THIS PRODUCT WITH CONCENTRATED  
 SOLUTIONS OF CHLORINE BLEACH, AMMONIA CLEANSERS OR SIMILAR  
 PRODUCTS. ALUMINUM POWDER. ACIDS. FLUORINE. MOLTEN LITHIUM.  
 HYDROFLUORIC ACID.

REACTIVITY CONDITIONS:..... CONTACT WITH INCOMPATIBLES.  
 HAZARDOUS PRODUCTS OF ..... ONLY IF HEATED OVER 806 F (430° C), AT WHICH SULFUR DIOXIDE AND SULFUR  
 DECOMPOSITION TRIOXIDE ARE FORMED. REACTS WITH ACIDS WITH RELEASE OF LARGE  
 VOLUMES OF CARBON DIOXIDE GAS AND HEAT. REACTS WITH HYDROFLUORIC  
 ACID TO FORM TOXIC SILICON TETRAFLUORIDE GAS.

HAZARDOUS POLYMERIZATION..... WILL NOT OCCUR.

**Section 11: TOXICOLOGICAL INFORMATION**

EXPOSURE LIMIT OF MATERIAL..... 0.1MG/M3 RESPIRABLE QUARTZ (OSHA); 0.05MG/M3 RESPIRABLE CRISTOBALITE  
 (OSHA).  
 LC 50 OF MATERIAL, SPECIES & ROUTE.. N.AV.  
 LD 50 OF MATERIAL, SPECIES & ROUTE.. 2800 MG/KG (ORAL-RAT).  
 CARCINOGENICITY OF MATERIAL..... THIS PRODUCT CONTAINS CRYSTALLINE SILICA (SEE SECTION II). LONG TERM  
 INHALATION OF RESPIRABLE CRYSTALLINE SILICA DUSTS MAY CAUSE LUNG  
 DISEASE (SILICOSIS). INHALATION OF RESPIRABLE CRYSTALLINE SILICA HAS  
 BEEN CLASSIFIED AS CARCINOGENIC (GROUP1)BY IARC, A UNIT OF THE WORLD  
 HEALTH ORGANIZATION. RESPIRABLE CRYSTALLINE SILICA IS LISTED BY NTP AS  
 A KNOWN HUMAN CARCINOGEN.

REPRODUCTIVE EFFECTS..... N.AV.  
 IRRITANCY OF MATERIAL..... SKIN IRRITATION – THIS MATERIAL IS NEITHER CORROSIVE NOR DESTRUCTIVE  
 TO THE SKIN OF NEW ZEALAND RABBITS. OCCASIONALLY, A VERY SLIGHT RASH  
 MAY APPEAR.

SENSITIZING CAPABILITY OF MATERIAL. N.AV.  
 SYNERGISTIC MATERIALS..... N.AV.  
 MUTAGENICITY..... N.AV.  
 TERATOGENICITY..... N.AV.

**Section 12: ECOLOGICAL CONSIDERATIONS**

ECOLOGICAL INFORMATION..... THIS PRODUCT READILY DISSOLVES IN WATER TO FORM A WEAK ACID  
 SOLUTION. A 0.05 PERCENT OR GREATER (BY WEIGHT) SOLUTION OF THIS  
 PRODUCT WILL LIKELY BE ACUTELY HARMFUL TO AQUATIC LIFE. CHEMICAL FATE  
 INFORMATION: MATERIAL WILL DECOMPOSE IN SOIL. STUDIES SHOW THAT  
 THERE ARE NO ADVERSE EFFECTS OF APPLYING THE MAIN INGREDIENT IN THIS  
 PRODUCT (SODIUM BISULFATE) DIRECTLY TO CROPS. IN FACT, THERE ARE  
 EXISTING PRODUCTS ON THE MARKET THAT USE SODIUM BISULFATE AS A SOIL  
 ADDITIVE TO IMPROVE CROP PRODUCTION. HOWEVER, DO NOT APPLY  
 EXCESSIVE QUANTITIES TO SOIL.

**Section 13: DISPOSAL CONSIDERATIONS**

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

**Section 14: TRANSPORT INFORMATION**

TDG CLASSIFICATION..... NOT REGULATED.  
 UN NUMBER..... N.AP.  
 PACKING GROUP..... N.AP.  
 SPECIAL SHIPPING INSTRUCTIONS..... NOT REGULATED.

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**Section 15: REGULATORY INFORMATION**

CPR COMPLIANCE..... 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.

WHMIS CLASSIFICATION..... D2A, D2B.

**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 THEY ARE APPROPRIATE.