



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..... May28/11
PRODUCT NAME..... FAST-FLO
PRODUCT CODE..... MUR0048
CHEMICAL FORMULA..... MIXTURE.
MOLECULAR WEIGHT..... MIXTURE.
CHEMICAL FAMILY..... N.AV.
MATERIAL USE..... N.AV.
EMERGENCY PHONE NO..... CANUTEC (613)-996-6666.

Section 02: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:
SKIN CONTACT..... CAUSES MODERATE SKIN IRRITATION. MAY CAUSE BURN IF NOT FLUSHED WITH WATER.
SKIN ABSORPTION..... N.AV.
EYE CONTACT..... CAUSES EYE IRRITATION. MAY CAUSE BURN IF NOT FLUSHED WITH WATER.
INHALATION..... INHALATION OF DUST MAY IRRITATE OR BURN NOSE, THROAT AND LUNGS.
INGESTION..... SWALLOWING LARGE AMOUNTS MAY IRRITATE OR BURN DIGESTIVE TRACT.
EFFECTS OF ACUTE EXPOSURE..... SEE ABOVE.
EFFECTS OF CHRONIC EXPOSURE..... N.AV.

Section 03: 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 CARBONATE	1-5	SEE SECTION 11	497-19-8	SEE SECTION 11	SEE SECTION 11
CRYSTALLINE SILICA	<0.1	SEE SECTION 11	14808-60-7	SEE SECTION 11	SEE SECTION 11

Section 04: 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.
NOTES TO PHYSICIAN..... TREATMENT BASED ON SOUND JUDGMENT OF PHYSICIAN AND INDIVIDUAL REACTIONS OF PATIENT.

Section 05: FIRE FIGHTING MEASURES

T.D.G. FLAM. CLASS..... NON FLAMMABLE.
FLAMMABILITY..... NON FLAMMABLE.
IF YES, UNDER WHICH CONDITIONS?
EXTINGUISHING MEDIA..... DOES NOT BURN. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.
SPECIAL FIREFIGHTING PROCEDURES... FIRE FIGHTERS SHOULD WEAR FULL PROTECTIVE CLOTHING, INCLUDING SELF-CONTAINED BREATHING EQUIPMENT.
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.

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Section 05: FIRE FIGHTING MEASURES

RATE OF BURNING..... N.AV.
 SENSITIVITY TO STATIC DISCHARGE..... N.AV.
 SENSITIVITY TO IMPACT..... N.AV.
 UNUSUAL FIRE AND EXPLOSION DO NOT GET WATER INSIDE CONTAINER. PRODUCT DISSOLVES IN WATER TO FORM AN ACID SOLUTION. PRECAUTION FOR EXPOSURE TO ACID SHOULD BE FOLLOWED. AT TEMPERATURES OVER 430 °C (806 °F), PRODUCT WILL DECOMPOSE, GENERATING SULPHUR OXIDES.
 HAZARDS
 HAZARDOUS COMBUSTION PRODUCTS.. CARBON DIOXIDE. UNDER FIRE CONDITIONS, OXIDES OF SULPHUR.

Section 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL..... WEAR APPROPRIATE PROTECTIVE EQUIPMENT. PREVENT FROM ENTERING SEWERS, WATERWAYS OR LOW AREAS. SCOOP UP OR VACUUM UP AND PLACE IN AN APPROPRIATE CLOSED CONTAINER. AVOID RAISING DUST. FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE. . AVOID RAISING DUST.

Section 07: HANDLING AND STORAGE

HANDLING PROCEDURES AND AVOID BREATHING IN DUST. AVOID CONTACT WITH EYES, SKIN AND CLOTHING. EQUIPMENT AVOID DUST GENERATION AND PROVIDE FOR ROOM VENTILATION DURING HANDLING. WHEN DILUTING, ADD THIS PRODUCT TO WATER IN SMALL AMOUNTS TO AVOID SPATTERING. NEVER ADD WATER TO THIS MATERIAL. WASH THOROUGHLY AFTER HANDLING.
 STORAGE NEEDS..... KEEP CONTAINERS TIGHTLY CLOSED. STORE AWAY FROM ALKALIS. STORE IN A COOL, DRY, WELL VENTILATED AREA. PROTECT AGAINST MOISTURE, WATER AND PHYSICAL DAMAGE. MATERIAL IS HYDROSCOPIC AND WILL READILY ABSORB MOISTURE.

Section 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

GLOVES/ TYPE..... RUBBER GLOVES.
 RESPIRATORY/TYPE..... IF DUSTY CONDITIONS ARE ENCOUNTERED, USE A NIOSH APPROVED DUST RESPIRATOR.
 EYE/TYPE..... CHEMICAL GOGGLES; ALSO WEAR A FACE SHIELD IF SPLASHING HAZARD EXISTS.
 FOOTWEAR/TYPE..... IMPERVIOUS BOOTS.
 CLOTHING/TYPE..... NORMAL WORK COVERALLS.
 OTHER/TYPE..... ENSURE THAT EYEWASH STATIONS AND SAFETY SHOWERS ARE PROXIMAL TO THE WORK-STATION LOCATION.
 ENGINEERING CONTROLS..... PROVIDE GENERAL AND /OR LOCAL EXHAUST VENTILATION TO MAINTAIN AIRBORNE PARTICULATE BELOW NUISANCE LEVELS (>10 MG/M3).

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.
 MELTING/FREEZING POINT..... N.AV.
 PH..... N.AV.
 SPECIFIC GRAVITY (WATER=1)..... N.AV.
 SOLUBILITY IN WATER (% W/W)..... SOLUBLE.
 COEFFICIENT OF WATER/OIL DIST..... N.AV.

Section 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:..... STABLE.
 CONDITIONS TO AVOID..... MOISTURE.
 MATERIALS TO AVOID..... ALKALIS. CHLORINE. AMMONIA. AVOID CONTACT WITH STRONG ACIDS. BECOMES CORROSIVE TO METALS WHEN WET.
 HAZARDOUS PRODUCTS OF TEMPERATURES ABOVE 430°C (806°F). OXIDES OF SULPHUR. MAY EVOLVE DECOMPOSITION CHLORINE GAS WHEN IN CONTACT WITH STRONG ACIDS.
 HAZARDOUS POLYMERIZATION..... WILL NOT OCCUR.
 ADDITIONAL INFORMATION..... PRODUCT DISSOLVES IN WATER TO FORM AN ACID SOLUTION. CONTACT WITH ACIDS WILL RELEASE CARBON DIOXIDE GAS. CAN REACT VIOLENTLY WITH RED HOT ALUMINUM METAL; FLUORINE GAS; LITHIUM; AND 2,4,6-TRINITROTOLUENE.

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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.. SODIUM BISULPHATE: 2800 MG/KG (ORAL-RAT).
 CARCINOGENICITY OF MATERIAL..... THIS PRODUCT CONTAINS CRYSTALLINE SILICA (SEE SECTION 3). 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..... SEE SECTION 2.
 SENSITIZING CAPABILITY OF MATERIAL. N.AV.
 SYNERGISTIC MATERIALS..... N.AV.
 MUTAGENICITY..... N.AV.
 TERATOGENICITY..... N.AV.

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

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

Section 15: REGULATORY INFORMATION

WHMIS CLASSIFICATION..... D2B.
 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.

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.