



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

PRODUCT: FILTER-PLUS

CODE: MUR0047

### SECTION 01: IDENTIFICATION

PRODUCT CODE..... MUR0047  
 PRODUCT IDENTIFIER..... FILTER-PLUS  
 OTHER MEANS OF IDENTIFICATION..... N.AV.  
 RECOMMENDED USE AND ..... N.AV.  
 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..... CARCINOGENICITY — CATEGORY 1A. SPECIFIC TARGET ORGAN TOXICITY — REPEATED EXPOSURE — CATEGORY 2.  
 SIGNAL WORD..... DANGER.  
 HAZARD STATEMENT..... H350 MAY CAUSE CANCER THROUGH PROLONGED OR REPEATED EXPOSURE. H373 MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.  
 PRECAUTIONARY STATEMENT..... P201 OBTAIN SPECIAL INSTRUCTIONS BEFORE USE. P202 DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. P308+P313 IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION. P260 DO NOT BREATHE DUST/FUME/GAS/MIST/VAPOURS/SPRAY. P314 GET MEDICAL ADVICE/ATTENTION IF YOU FEEL UNWELL. 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. %
SILICA, CRISTOBALITE	14464-46-1	30
QUARTZ	14808-60-7	2.5

### SECTION 04: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:  
 EYE CONTACT..... RINSE THOROUGHLY WITH PLENTY OF WATER, ALSO UNDER THE EYELIDS. DO NOT RUB AFFECTED AREA. IF IRRITATION PERSISTS, CALL A PHYSICIAN.  
 SKIN CONTACT..... USE MOISTURIZING LOTIONS IF DRYNESS OCCURS. WASH THE SKIN THOROUGHLY WITH SOAP AND WATER OR A RECOGNIZED CLEANER.  
 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.  
 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:

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**SECTION 04: FIRST AID MEASURES**

INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED EXPOSURE TO HIGH CONCENTRATIONS OF DUST MAY RESULT IN UPPER RESPIRATORY TRACT (NOSE AND THROAT) IRRITATION. AN ALLERGIC REACTION MAY OCCUR IN SOME PERSONS DUE TO INHALATION OF OR CONTACT WITH THIS PRODUCT. IN CASE OF DOUBT OR IF SYMPTOMS PERSIST, ALWAYS CALL A DOCTOR. NEVER INDUCE SWALLOWING IN AN UNCONSCIOUS PERSON.

**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: NO SPECIFIC FIRE OR EXPLOSION HAZARD.  
 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..... AVOID CONTACT WITH SKIN, EYES, OR CLOTHING. DO NOT BREATHE DUST. PROVIDE ADEQUATE VENTILATION. PUT ON APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (SEE SECTION 8). ENSURE ADEQUATE VENTILATION.  
 ENVIRONMENTAL PRECAUTIONS..... DO NOT ALLOW TO ENTER DRAINS, SEWERS OR WATERCOURSES.  
 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP ..... RETRIEVE THE PRODUCT BY MECHANICAL MEANS (SWEEPING/VACUUMING); DO NOT GENERATE DUST. NON-SPARKING TOOLS SHOULD BE USED. COLLECT INTO A SUITABLE CONTAINER FOR DISPOSAL.

**SECTION 07: HANDLING AND STORAGE**

PRECAUTIONS FOR SAFE HANDLING:..... AVOID BREATHING DUST. AVOID CONTACT WITH EYES, SKIN OR CLOTHING. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. USE GOOD WAREHOUSING AND PRODUCTION HANDLING PRACTICES TO LIMIT DUST GENERATION AND ACCUMULATION. TAKE PRECAUTIONS AGAINST STATIC DISCHARGE. AVOID OPEN FLAMES AND SOURCES OF IGNITION SUCH AS SPARKS.  
 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: ..... KEEP THE CONTAINER TIGHTLY CLOSED IN A DRY PLACE, AWAY FROM IGNITION SOURCES AND STRONG OXIDIZING AGENTS. PRODUCT SHOULD BE STORED ON PALLETS WITHOUT CONTACT TO WALLS, CEILING OR FLOOR. STORAGE AREAS SHOULD BE WELL VENTILATED AND FREE OF STRONG AND OBJECTIONABLE ODORS. GOOD WAREHOUSE AND PRODUCTION HANDLING PRACTICES SHOULD BE FOLLOWED TO LIMIT THE AMOUNT OF DUST.

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

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
SILICA, CRISTOBALITE	0.025 MG/M3 (RESPIRABLE FRACTION)	N.AV.	0.05 MG/M3	N.AV.	N.AV.	N.AV.
QUARTZ	0.025 MG/M3 (RESPIRABLE FRACTION)	N.AV.	0.05 MG/M3	N.AV.	N.AV.	N.AV.
APPROPRIATE ENGINEERING CONTROLS	ENSURE ADEQUATE VENTILATION, IF POSSIBLE WITH EXTRACTOR FANS AT WORK POSTS AND APPROPRIATE GENERAL EXTRACTION. IT IS RECOMMENDED THAT DUST-HANDLING SYSTEMS ARE LEAK-FREE, AND DESIGNED TO MINIMIZE FORMATION OF DUST CLOUDS.					
INDIVIDUAL PROTECTION MEASURE SUCH AS PERSONAL PROTECTIVE EQUIPMENTS:						
HAND PROTECTION.....	USE GLOVES APPROPRIATE FOR WORK OR TASK BEING PERFORMED. RECOMMENDED: RUBBER GLOVES.					
RESPIRATORY PROTECTION.....	USE NIOSH, MSHA OR OTHER RESPIRATORS, AS APPROVED FOR HAZARD.					
EYE PROTECTION.....	SAFETY GLASSES WITH SIDE SHIELDS OR CHEMICAL GOGGLES.					
PROTECTIVE CLOTHING.....	SUITABLE PROTECTIVE CLOTHING.					
PROTECTIVE FOOTWEAR.....	IMPERVIOUS BOOTS.					
OTHER.....	ENSURE THAT EYEWASH STATIONS AND SAFETY SHOWERS ARE PROXIMAL TO THE WORK-STATION LOCATION.					
HYGIENIC PRACTICES						

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**SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

PHYSICAL STATE..... SOLID.  
 COLOR..... OFF-WHITE.  
 ODOUR..... N.AV.  
 ODOUR THRESHOLD..... N.AV.  
 PH..... N.AV.  
 MELTING/FREEZING POINT..... N.AV.  
 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..... N.AV.  
 SOLUBILITY IN WATER (% W/W)..... SOLUBLE.  
 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..... CONTACT WITH INCOMPATIBLES.  
 INCOMPATIBLE MATERIALS:..... HYDROFLUORIC ACID. STRONG OXIDIZING AGENTS.  
 HAZARDOUS PRODUCTS OF DECOMPOSITION..... SILICON DIOXIDES. THERMAL DECOMPOSITION MAY RELEASE CARBON MONOXIDE AND/OR CARBON DIOXIDE.

**SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
SILICA, CRISTOBALITE	N.AV.	N.AV.
QUARTZ	N.AV.	500 MG/KG (ORAL, RAT)
INFORMATION ON LIKELY ROUTES OF ENTRY:		
INHALATION.....	MAY CAUSE IRRITATION OF RESPIRATORY TRACT.	
SKIN CONTACT.....	PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION.	
SKIN ABSORPTION.....	N.AV.	
EYE CONTACT.....	DUST CONTACT WITH THE EYES CAN LEAD TO MECHANICAL IRRITATION.	
INGESTION.....	MAY CAUSE IRRITATION.	
EFFECTS OF ACUTE EXPOSURE.....	SEE ABOVE.	
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. MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE.	
SIGNS AND SYMPTOMS OF OVEREXPOSURE		
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.....	N.AV.	
MUTAGENICITY.....	N.AV.	
REPRODUCTIVE EFFECTS.....	N.AV.	
SENSITIZING CAPABILITY OF MATERIAL.....	N.AV.	
SYNERGISTIC MATERIALS.....	N.AV.	

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**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: 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  
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