

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

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CODE: MUR0034 PRODUCT: BUFFER

Section 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER/SUPPLIER..... MURSATT CHEMICALS LIMITED

11 REGALCREST COURT WOODBRIDGE, ONTARIO

CANADA

L4L 8P3

REGULATORY AFFAIRS

PREPARATION DATE..... Apr18/14 PRODUCT NAME...... BUFFER PRODUCT CODE MUR0034 CHEMICAL FORMULA...... N.AV. MOLECULAR WEIGHT...... N.AV. CHEMICAL FAMILY...... N.AV.

Section 02: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:

SKIN CONTACT..... NO SIGNIFICANT EFFECTS ANTICIPATED.

SKIN ABSORPTION..... N.AV.

EYE CONTACT...... NO SIGNIFICANT EFFECTS ANITCIPATED. INGESTION.. NO SIGNIFICANT EFFECTS ANTICIPATED.

EFFECTS OF ACUTE EXPOSURE..... SEE ABOVE

EFFECTS OF CHRONIC EXPOSURE...... NO KNOWN EFFECT.

Section 03: COMPOSITION/INFORMATION ON INGREDIENTS

% C.A.S.# LD/50, Route, Species Hazardous Ingredients **Exposure Limit** LC/50 Route, Species

NONE

Section 04: FIRST AID MEASURES

FLUSH EYES WITH WATER AS A PRECAUTION. GET MEDICAL ATTENTION IF EYE CONTACT.....

IRRITATION DEVELOPS AND PERSISTS. SKIN CONTACT.....

WASH SKIN WITH SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION

DEVELOPS AND PERSISTS.

REMOVE PERSON TO FRESH AIR. IF SIGNS/SYMPTOMS CONTINUE, GET MEDICAL INHALATION..... ATTENTION.

INGESTION..... DRINK PLENTY OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN

UNCONSCIOUS PERSON. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR.

NOTES TO PHYSICIAN..... N.AV.

Section 05: FIRE FIGHTING MEASURES

T.D.G. FLAM. CLASS..... NOT REGULATED. FLAMMABILITY....EXTINGUISHING MEDIA..... NON-COMBUSTIBLE

WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE (CO2), OR FOAM.

SPECIAL PROCEDURES...... N.AV.

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PRODUCT: BUFFER	CODE: MUR0034		
Section 06: ACCIDENTAL RELEASE MEASURES			
LEAK/SPILL	PERSONAL PRECAUTIONS: AVOID DUST FORMATION. METHODS FOR CONTAINMENT: MATERIAL MAY BE RECYCLED WHEN CONTAMINATION IS NOT A PROBLEM. METHODS FOR CLEANING UP: SWEEP UP AND SHOVEL INTO SUITABLE CONTAINERS FOR DISPOSAL.		
Section 07: HANDLING AND STORAGE			
	USE AIR CONVEYING/MECHANICAL SYSTEMS FOR BULK TRANSFER TO STORAGE. PROVIDE APPROPRIATE EXHAUST VENTILATION AT PLACES WHERE DUST IS FORMED. IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY EQUIPMENT. KEEP IN A DRY, COOL AND WELL-VENTILATED PLACE. KEEP AWAY FROM HEAT.		
STORAGE	KEEP IN A DRY, COOL AND WELL-VENTILATED PLACE. KEEP AWAY FROM HEAT. KEEP AWAY FROM INCOMPATIBLE PRODUCTS (ACIDS).		
Section 08: EXPOS	URE CONTROLS AND PERSONAL PROTECTION		
EYE/TYPE	WHENEVER DUST IN THE WORKER'S BREATHING ZONE CANNOT BE CONTROLLED WITH VENTILATION OR OTHER ENGINEERING MEANS, WORKERS SHOULD WEAR RESPIRATORS OR DUST MASKS APPROVED BY NIOSH/MSHA, EU CEN OR COMPARABLE ORGANIZATION TO PROTECT AGAINST AIRBORNE DUST. SAFETY GLASSES WITH SIDE SHIELDS.		
	WEAR SUITABLE PROTECTIVE CLOTHING. EYE EASH STATIONS AND SAFETY DRENCH SHOWERS SHOULD BE AVAILABLE IN		
ENGINEERING CONTROLS	WORK AREAS. WHERE REASONABLY PRACTICABLE THIS SHOULD BE ACHIEVED BY THE USE OF		
HYGIENE MEASURES	LOCAL EXHAUST VENTILATION AND GOOD GENERAL EXTRACTION. HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE		
GENERAL	PRACTICE. IF THE PRODUCT IS USED IN MIXTURES, IT IS RECOMMENDED THAT YOU CONTACT THE APPROPRIATE PROTECTIVE EQUIPMENT SUPPLIERS, THESE RECOMMENDATIONS APPLY TO THE PRODUCT AS SUPPLIED.		
Section 09: P	HYSICAL AND CHEMICAL PROPERTIES		
PHYSICAL STATE	ODOURLESS. N.AP. N.AP. N.AP. DECOMPOSES. 8.3 (1% SOLUTION). 2.20. 0.88.		
SOLUBILITY IN WATER (% W/W) COEFFICIENT OF WATER/OIL DIST	@ 20°C (68°F): 9.0. N.AV.		
Section 10: STABILITY AND REACTIVITY			
HAZARDOUS PRODUCTS OF DECOMPOSITION	EXCESSIVE HEAT. EXCEPT UNDER CONTROLLED CONDITIONS: ACIDS. REACTS WITH ACIDS TO RELEASE CARBON DIOXIDE GAS AND HEAT.		
	HAZARDOUS POLYMERIZATION DOES NOT OCCUR.		
Section 11: TOXICOLOGICAL INFORMATION			
LC 50 OF MATERIAL, SPECIES & ROUTE	THIS PRODUCT DOES NOT CONTAIN ANY HAZARDOUS MATERIALS WITH OCCUPATIONAL EXPOSURE LIMITS ESTABLISHED BY THE REGION SPECIFIC REGULATORY BODIES. LOCAL NUISANCE DUST STANDARDS APPLY. NO INFORMATION AVAILABLE. ORAL: 20% SLURRY: 4,300 MG/KG (RAT); 50 % SLURRY: 6,000 MG/KG (RAT). DERMAL: NO DATA AVAILABLE FOR THE PRODUCT.		
ACUTE EFFECTS FROM OVEREXPOSURE CHRONIC TOXICITY CARCINOGENICITY OF MATERIAL REPRODUCTIVE EFFECTS	THIS PRODUCT IS APPROVED FOR USE AS A FOOD INGREDIENT AND IS GENERALLY RECOGNIZED AS SAFE (GRAS). NO KNOWN EFFECT. IARC: NOT LISTED.		

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Section 11: TOXICOLOGICAL INFORMATION				
IRRITANCY OF MATERIALSENSITIZING CAPABILITY OF MATERIAL. SYNERGISTIC MATERIALS	N.AV.			
Section 12: ECOLOGICAL CONSIDERATIONS				
BIOACCUMULATION	BIODEGRADABILITY DOES NOT PERTAIN TO INORGANIC			
Section 13: DISPOSAL CONSIDERATIONS				
WASTE DISPOSAL	DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGU	JLATIONS.		
Section 14: TRANSPORT INFORMATION				
TDG CLASSIFICATIONUN NUMBERPACKING GROUP	N.AP.			
Section 1	5: REGULATORY INFORMATION			
	THIS IS NOT A WHMIS CONTROLLED PRODUCT. THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCI CRITERIA OF THE CPR AND THE MSDS CONTAINS ALL T 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 SPECII DESIGNATED HEREIN AND DOES NOT RELATE TO USE I ANY OTHER MATERIAL OR IN ANY PROCESS. THIS DATA FAITH AS TYPICAL VALUES AND NOT AS PRODUCT SPE WARRANTY, EITHER EXPRESSED OR IMPLIED, IS HEREI RECOMMENDED INDUSTRIAL HYGIENE AND SAFE HAND BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC INTENDED USE AND DETERMINE WHETHER THET ARE ASSETTED.	IN COMBINATION WITH A IS OFFERED IN GOOD CIFICATIONS. NO BY MADE. THE DLING PROCEDURES ARE EACH USER SHOULD CONTEXT OF THE		