



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

PRODUCT: BUFFER

CODE: MUR0034

SECTION 01: IDENTIFICATION

PRODUCT CODE..... MUR0034
 PRODUCT IDENTIFIER..... BUFFER
 OTHER MEANS OF IDENTIFICATION..... BAKING SODA.
 RECOMMENDED USE AND POTABLE AND RECREATIONAL WATER TREATMENT.
 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..... NOT HAZARDOUS.
 SIGNAL WORD..... N.AP.
 HAZARD STATEMENT..... N.AP.
 PRECAUTIONARY STATEMENT..... N.AP.
 OTHER HAZARDS..... EXPOSURE MAY AGGRAVATE THOSE WITH PRE-EXISTING EYE, SKIN, OR
 RESPIRATORY CONDITIONS. PROLONGED CONTACT WITH DUST CAN PRODUCE
 MECHANICAL IRRITATION.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
SODIUM BICARBONATE	144-55-8	100

SECTION 04: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:
 GENERAL:..... NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF YOU FEEL
 UNWELL, SEEK MEDICAL ADVICE.
 EYE CONTACT..... RINSE CAUTIOUSLY WITH WATER FOR AT LEAST 15 MINUTES. REMOVE CONTACT
 LENSES, IF PRESENT AND EASY TO DO SO. CONTINUE RINSING. OBTAIN MEDICAL
 ATTENTION IF IRRITATION PERSISTS.
 SKIN CONTACT..... BRUSH OFF LOOSE PARTICLES FROM SKIN. RINSE IMMEDIATELY WITH PLENTY
 OF WATER. OBTAIN MEDICAL ATTENTION IF IRRITATION DEVELOPS OR PERSISTS.
 INHALATION..... WHEN SYMPTOMS OCCUR: GO INTO OPEN AIR AND VENTILATE SUSPECTED
 AREA.
 INGESTION..... RINSE MOUTH. DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION IF A
 LARGE AMOUNT IS SWALLOWED.
 MOST IMPORTANT SYMPTOMS AND GENERAL: NONE EXPECTED UNDER NORMAL CONDITIONS OF USE. INHALATION:
 EFFECTS, ACUTE OR DELAYED: PROLONGED INHALATION OF DUST MAY CAUSE RESPIRATORY IRRITATION. SKIN
 CONTACT: SKIN CONTACT WITH LARGE AMOUNTS OF DUST MAY CAUSE
 MECHANICAL IRRITATION. EYE CONTACT: CONTACT MAY CAUSE IRRITATION DUE
 TO MECHANICAL ABRASION. INGESTION: LARGE DOSES MAY PRODUCE
 SYSTEMIC ALKALOSIS AND EXPANSION IN EXTRACELLULAR FLUID VOLUME WITH
 EDEMA. CHRONIC SYMPTOMS: NONE EXPECTED UNDER NORMAL CONDITIONS
 OF USE.
 INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT
 NEEDED IF EXPOSED OR CONCERNED, GET MEDICAL ADVICE AND ATTENTION.

SECTION 05: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA..... USE AN EXTINGUISHING AGENT SUITABLE FOR THE SURROUNDING FIRE.
 UNSUITABLE EXTINGUISHING MEDIA..... FOR SURROUNDING FIRE: USE OF HEAVY STREAM OF WATER MAY SPREAD FIRE.
 SPECIAL HAZARDS ARISING FROM THE PRODUCT: NOT FLAMMABLE. UNDER FIRE CONDITIONS, HAZARDOUS FUMES WILL BE
 PRESENT. PRODUCT IS NOT EXPLOSIVE.
 HAZARDOUS COMBUSTION PRODUCTS: CARBON OXIDES (CO, CO₂). SODIUM OXIDES.
 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS: WEAR SELF-CONTAINED BREATHING APPARATUS WHEN ENTERING AREA
 UNLESS ATMOSPHERE IS PROVED TO BE SAFE. EXERCISE CAUTION WHEN
 FIGHTING ANY CHEMICAL FIRE. DO NOT ENTER FIRE AREA WITHOUT PROPER
 PROTECTIVE EQUIPMENT, INCLUDING RESPIRATORY PROTECTION.

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SECTION 06: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS..... HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PRACTICE. DO NOT BREATHE DUST OR FUMES. AVOID SKIN AND EYE CONTACT. USE APPROPRIATE PERSONAL PROTECTION EQUIPMENT (PPE). EVACUATE UNNECESSARY PERSONNEL. EQUIP CLEANUP CREW WITH PROPER PROTECTION. VENTILATE AREA.

ENVIRONMENTAL PRECAUTIONS..... PREVENT ENTRY TO SEWERS AND PUBLIC WATERS. AVOID RELEASE TO THE ENVIRONMENT.

METHODS AND MATERIALS FOR FOR CONTAINMENT: CONTAIN AND COLLECT AS ANY SOLID. METHODS FOR CONTAINMENT AND CLEANING UP CLEANING UP: CLEAN UP SPILLS IMMEDIATELY AND DISPOSE OF WASTE SAFELY. AVOID GENERATION OF DUST DURING CLEAN-UP OF SPILLS. KEEP IN SUITABLE, CLOSED CONTAINERS FOR DISPOSAL. CONTACT COMPETENT AUTHORITIES AFTER A SPILL.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:..... WHEN HEATED, MATERIAL EMITS IRRITATING FUMES. HANDLE IN ACCORDANCE WITH GOOD INDUSTRIAL HYGIENE AND SAFETY PROCEDURES. WASH HANDS AND OTHER EXPOSED AREAS WITH MILD SOAP AND WATER BEFORE EATING, DRINKING, OR SMOKING AND AGAIN WHEN LEAVING WORK.

CONDITIONS FOR SAFE STORAGE, STORE IN A DRY, COOL AND WELL-VENTILATED PLACE. KEEP CONTAINER INCLUDING ANY INCOMPATIBILITIES: CLOSED WHEN NOT IN USE. INCOMPATIBLE MATERIALS: ACIDS. WATER. LIME. STORAGE TEMPERATURE: < 65 °C (150 °F).

SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENTS	ACGIH TLV		OSHA PEL		NIOSH
	TWA	STEL	PEL	STEL	

SODIUM BICARBONATE	3 MG/M3 RESPIRABLE FRACTION: 10 MG/M3 TOTAL DUST.	N.AV.	5 MG/M3 RESPIRABLE FRACTION:15 MG/M3 TOTAL DUST.	N.AV.	N.AV.
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APPROPRIATE ENGINEERING CONTROLS FOR OCCUPATIONAL/WORKPLACE SETTINGS: EMERGENCY EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE IN THE IMMEDIATE VICINITY OF ANY POTENTIAL EXPOSURE. ENSURE ADEQUATE VENTILATION, ESPECIALLY IN CONFINED AREAS. ENSURE ALL NATIONAL/LOCAL REGULATIONS ARE OBSERVED.

INDIVIDUAL PROTECTION MEASURE SUCH AS PERSONAL PROTECTIVE EQUIPMENTS:

HAND PROTECTION..... FOR OCCUPATIONAL OR BULK QUANTITIES: WEAR CHEMICALLY RESISTANT PROTECTIVE GLOVES.

RESPIRATORY PROTECTION..... USE A NIOSH-APPROVED RESPIRATOR OR SELF-CONTAINED BREATHING APPARATUS WHENEVER EXPOSURE MAY EXCEED ESTABLISHED OCCUPATIONAL EXPOSURE LIMITS.

EYE PROTECTION..... FOR OCCUPATIONAL OR BULK QUANTITIES: CHEMICAL GOGGLES OR SAFETY GLASSES.

PROTECTIVE CLOTHING..... FOR OCCUPATIONAL OR BULK QUANTITIES: CHEMICALLY RESISTANT MATERIALS AND FABRICS.

PROTECTIVE FOOTWEAR..... CHEMICAL RESISTANT SAFETY SHOES OR BOOTS.

OTHER..... EYE WASH STATIONS AND SAFETY DRENCH SHOWERS SHOULD BE AVAILABLE IN WORK AREAS.

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. WHITE CRYSTALLINE POWDER.

COLOR..... N.AP.

ODOUR..... NONE.

ODOUR THRESHOLD..... N.AV.

PH..... 8.2 (1% SOLUTION).

MELTING POINT (C)..... DECOMPOSES.

BOILING POINT..... N.AP.

FLASH POINT (C), METHOD..... N.AP.

EVAPORATION RATE..... N.AP.

FLAMMABILITY (SOLIDS AND GASES)..... N.AV.

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

UPPER FLAMMABLE LIMIT (% BY VOL.)... N.AP.
 LOWER FLAMMABLE LIMIT (% BY VOL.)... N.AP.
 VAPOUR PRESSURE (MMHG)..... N.AP.
 VAPOUR DENSITY (AIR=1)
 DENSITY..... 62 LB/FT3.
 RELATIVE DENSITY..... N.AV.
 SOLUBILITY IN WATER (% W/W)..... 8.6 G/100ML @ 20 °C (68 °F).
 COEFFICIENT OF WATER/OIL DIST..... N.AV.
 AUTO IGNITION TEMPERATURE..... N.AP.
 DECOMPOSITION TEMPERATURE..... N.AV.
 VISCOSITY..... N.AP.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:..... HAZARDOUS REACTIONS WILL NOT OCCUR UNDER NORMAL CONDITIONS.
 CHEMICAL STABILITY:..... DECOMPOSES SLOWLY ON EXPOSURE TO WATER (MOISTURE).
 POSSIBILITY OF HAZARDOUS REACTIONS:..... HAZARDOUS POLYMERIZATION WILL NOT OCCUR.
 REACTIONS:
 CONDITIONS TO AVOID..... EXPOSURE TO MOISTURE OR MOIST AIR. TEMPERATURES ABOVE 150°F (65 °C).
 INCOMPATIBLE MATERIALS:..... ACIDS. WATER. LIME.
 HAZARDOUS PRODUCTS OF DECOMPOSITION..... NONE KNOWN. AT HIGH TEMPERATURE MAY LIBERATE TOXIC GASES.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
SODIUM BICARBONATE	> 4.7 MG/L/4H (IHL, RAT)	7.3 G/KG (ORAL, RAT)
INFORMATION ON LIKELY ROUTES OF ENTRY:		
INHALATION.....	PROLONGED INHALATION OF DUST MAY CAUSE RESPIRATORY IRRITATION.	
INGESTION.....	LARGE DOSES MAY PRODUCE SYSTEMIC ALKALOSIS AND EXPANSION IN EXTRACELLULAR FLUID VOLUME WITH EDEMA.	
SKIN CONTACT.....	SKIN CONTACT WITH LARGE AMOUNTS OF DUST MAY CAUSE MECHANICAL IRRITATION.	
SKIN ABSORPTION.....	N.AV.	
EYE CONTACT.....	CONTACT MAY CAUSE IRRITATION DUE TO MECHANICAL ABRASION.	
EFFECTS OF ACUTE EXPOSURE.....	SEE ABOVE.	
EFFECTS OF CHRONIC EXPOSURE.....	SEE ABOVE.	
SIGNS AND SYMPTOMS OF OVEREXPOSURE		
CARCINOGENICITY OF MATERIAL.....	IARC: NOT LISTED.	
TERATOGENICITY.....	NOT CLASSIFIED.	
MUTAGENICITY.....	NOT CLASSIFIED.	
REPRODUCTIVE EFFECTS.....	NOT CLASSIFIED.	
SENSITIZING CAPABILITY OF MATERIAL.....	N.AV.	
SYNERGISTIC MATERIALS.....	N.AV.	

SECTION 12: ECOLOGICAL CONSIDERATIONS

ECOTOXICITY..... NOT EXPECTED TO HAVE SIGNIFICANT ENVIRONMENTAL EFFECTS.
 PERSISTENCE AND DEGRADATION..... NOT ESTABLISHED.
 BIOACCUMULATION..... NOT ESTABLISHED.
 MOBILITY..... 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.

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SECTION 14: TRANSPORT INFORMATION

ENVIRONMENTAL HAZARDS ACCORDING N.AV.
TO THE INTERNATIONAL MARITIME
DANGEROUS GOODS CODE AND THE
UNITED NATIONS MODEL REGULATIONS:
SPECIAL PRECAUTIONS IN CONNECTION N.AV.
WITH TRANSPORT OR CONVEYANCE
EITHER WITHIN OR OUTSIDE THE
PREMISES:

SECTION 15: REGULATORY INFORMATION

SAFETY, HEALTH AND ENVIRONMENTAL N.AV.
REGULATIONS SPECIFIC TO THE
PRODUCT:

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.

REGULATORY AFFAIRS
JAN 1/2024

PREPARED BY.....
PREPARATION DATE.....