



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

PRODUCT: EASY-UP

CODE: MUR0032

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..... Jun01/08
PRODUCT NAME..... EASY-UP
PRODUCT CODE..... MUR0032
CHEMICAL FORMULA..... N.AV.
MOLECULAR WEIGHT..... N.AV.
CHEMICAL FAMILY..... ALKALI.
MATERIAL USE..... PH ADJUSTMENT.
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 CARBONATE	99.8	SEE SECTION 11	497-19-8	SEE SECTION 11	SEE SECTION 11

Section 03: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:
SKIN CONTACT..... CONTINUOUS CONTACT MAY CAUSE SKIN IRRITATION (RED, DRY, CRACKED SKIN).
SKIN ABSORPTION..... N.AV.
EYE CONTACT..... DIRECT CONTACT WITH THE PRODUCT CAUSES IRRITATION OF THE EYES.
INHALATION..... EXCESSIVE LEVELS OF AIRBORNE DUST MAY IRRITATE THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.
INGESTION..... N.AV.
EFFECTS OF ACUTE EXPOSURE..... MAY CAUSE SEVERE IRRITATION OF THE EYES, INCLUDING CORNEAL OPACITIES. DUSTS AND MISTS ARE IRRITATING TO THE SKIN, MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT.
EFFECTS OF CHRONIC EXPOSURE..... NO DATA AVAILABLE FOR THE PRODUCT.

Section 04: FIRST AID MEASURES

NOTES TO PHYSICIAN..... WHILE INTERNAL TOXICITY IS LOW, IRRITANT EFFECTS OF HIGH CONCENTRATIONS MAY PRODUCE CORNEAL OPACITIES AND VESICULAR SKIN REACTIONS IN HUMANS WITH ABRADED SKIN ONLY. TREATMENT IS SYMPTOMATIC AND SUPPORTIVE.
INSTRUCTIONS:..... EYES: IMMEDIATELY FLUSH WITH WATER FOR AT LEAST 15 MINUTES, LIFTING THE UPPER AND LOWER EYELIDS INTERMITTENTLY. SEE A MEDICAL DOCTOR OR OPHTHALMOLOGIST IMMEDIATELY. SKIN: WASH WITH PLENTY OF SOAP AND WATER. GET MEDICAL ATTENTION IF IRRITATION OCCURS AND PERSISTS. INGESTION: RINSE MOUTH WITH WATER. DILUTE BY GIVING 1 OR 2 GLASSES OF WATER. DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. SEE A MEDICAL DOCTOR IMMEDIATELY. INHALATION: REMOVE TO FRESH AIR. IF BREATHING DIFFICULTY OR DISCOMFORT OCCURS AND PERSISTS, CONTACT A MEDICAL DOCTOR.

Section 05: FIRE FIGHTING MEASURES

FLAMMABILITY..... NON-COMBUSTIBLE.
IF YES, UNDER WHICH CONDITIONS?
EXTINGUISHING MEDIA..... WATER. WATER FOG, CO2, DRY CHEMICAL.
SPECIAL PROCEDURES..... WEAR FULL PROTECTIVE CLOTHING AND SELF CONTAINED BREATHING APPARATUS.
FLASH POINT (C), METHOD..... NON-COMBUSTIBLE.
AUTO IGNITION TEMPERATURE..... N.AP.
UPPER FLAMMABLE LIMIT (% BY VOL.).... N.AP.
LOWER FLAMMABLE LIMIT (% BY VOL.)... N.AP.
EXPLOSION DATA
EXPLOSIVE POWER..... N.AV.
RATE OF BURNING..... N.AV.
SENSITIVITY TO STATIC DISCHARGE..... NONE.
SENSITIVITY TO IMPACT..... NONE.

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Section 05: FIRE FIGHTING MEASURES

HAZARDOUS COMBUSTION PRODUCTS.. HEATED TO DECOMPOSITION, IT EMITS FUMES OF SODIUM OXIDE.

Section 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL..... REFER TO SECTION 8 "EXPOSURE CONTROLS/PERSONAL PROTECTION" FOR APPROPRIATE PERSONAL PROTECTION EQUIPMENT. SWEEP UP AND RECYCLE INTO PROCESS IF CONTAMINATION DOES NOT PRESENT A PROBLEM. USE APPROPRIATE PROTECTIVE EQUIPMENT IF DUST IS GENERATED OR CONTACT WITH EYES OR SKIN IS EXPECTED. FLUSH RESIDUES AND LIQUID TO HOLDING AREA FOR NEUTRALIZATION BEFORE DISCHARGE.

Section 07: HANDLING AND STORAGE

HANDLING PROCEDURES AND USE AIR CONVEYING/MECHANICAL SYSTEMS FOR BULK TRANSFER TO STORAGE. EQUIPMENT FOR MANUAL HANDLING OF BULK TRANSFER USE MECHANICAL VENTILATION TO REMOVE AIRBORNE DUST FROM RAILCAR, SHIP OR TRUCK. USE APPROVED RESPIRATORY PROTECTION WHEN VENTILATION SYSTEMS ARE NOT AVAILABLE. SELECTION OF RESPIRATORS IS BASED ON THE DUST CLOUD GENERATED.

STORAGE NEEDS..... STORE IN A COOL DRY AREA, AWAY FROM ACIDS.

Section 08: EXPOSURE CONTROLS/PERSONAL PROTECTION

GLOVES/ TYPE..... WEAR IMPERVIOUS GLOVES TO PREVENT SKIN CONTACT. THE OUTSIDE OF GLOVES SHOULD BE WASHED THOROUGHLY WITH SOAP AND WATER AFTER USE.

RESPIRATORY/TYPE..... WHENEVER DUST, IN THE WORKER'S BREATHING ZONE, CANNOT BE CONTROLLED WITH VENTILATION, WORKERS SHOULD WEAR RESPIRATORS, WHICH ARE APPROVED FOR PROTECTION AGAINST AIRBORNE DUST (BY U.S. NIOSH/MSHA OR COMPARABLE CERTIFICATION ORGANIZATION).

EYE/TYPE..... USE CUP TYPE CHEMICAL GOGGLES.

FOOTWEAR/TYPE..... INDUSTRIAL SAFETY SHOES.

CLOTHING/TYPE..... WEAR ARM PROTECTORS, APRONS AND INDUSTRIAL SAFETY SHOES. IF CLOTHING BECOMES CONTAMINATED, REMOVE AND LAUNDRER BEFORE REUSE.

OTHER/TYPE..... N.AV.

ENGINEERING CONTROLS..... MINIMIZE EYE AND SKIN CONTACT BY USING APPROPRIATE PROTECTIVE EQUIPMENT. PROVIDE GENERAL MECHANICAL AND/OR LOCAL EXHAUST VENTILATION TO PREVENT RELEASE OF AIRBORNE DUST INTO THE WORK ENVIRONMENT.

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

NOTE..... THIS CHEMICAL IS CERTIFIED TO ANSI/NSF STANDARD 60, DRINKING WATER CHEMICALS-HEALTH EFFECTS. THE MAXIMUM DOSAGE LEVEL FOR THIS CHEMICAL IS 150 MG/L.

PHYSICAL STATE..... WHITE GRANULAR. SOLID.

ODOUR..... ODOURLESS.

ODOUR THRESHOLD..... N.AP.

VAPOUR PRESSURE (MMHG)..... N.AP.

VAPOUR DENSITY (AIR=1)..... N.AP.

EVAPORATION RATE..... N.AP.

BOILING POINT..... DECOMPOSES.

MELTING POINT (C)..... 851.

PH..... 11.4 (1% SOLUTION).

SPECIFIC GRAVITY (WATER=1)..... 2.509.

SOLUBILITY IN WATER (% W/W)..... 33.2% MAXIMUM.

COEFFICIENT OF WATER/OIL DIST..... N.AP.

Section 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:

YES..... STABLE.

NO, WHICH CONDITIONS?

COMPATABILITY WITH OTHER SUBSTANCES:

YES

NO, WHICH ONES?..... ALUMINUM POWDER. ACIDS. FLUORINE. MOLTEN LITHIUM. REACTS WITH ACIDS WITH RELEASE OF LARGE VOLUMES OF CARBON DIOXIDE GAS AND HEAT.

CONDITIONS TO AVOID:..... CONTACT WITH ACIDS EXCEPT UNDER CONTROLLED CONDITIONS.

REACTIVITY CONDITIONS:..... N.AV.

HAZARDOUS PRODUCTS OF DECOMPOSITION..... NONE.

HAZARDOUS POLYMERIZATION..... WILL NOT OCCUR.

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Section 11: TOXICOLOGICAL INFORMATION

EXPOSURE LIMIT OF MATERIAL..... PARTICULATES NOT OTHERWISE REGULATED: OSHA (PEL/TWA) 15 MG/M3 (TOTAL DUST), 5 MG/M3 (RASP FRACTION); MSHA (PEL/TWA) 10 MG/M3 (TOTAL DUST).
 LC 50 OF MATERIAL, SPECIES & ROUTE.. 2.3 MG/L (RAT, 2 HR). 24 - HOUR LC50: 800 MG/M3, 20 H EXPOSURE (GUINEA PIG) MODERATE TOXICITY.
 LD 50 OF MATERIAL, SPECIES & ROUTE.. LD50 (ORAL-RAT):. 4090 MG/KG.
 CARCINOGENICITY OF MATERIAL..... NOT LISTED BY IARC, NTP, OSHA, ACGIH.
 REPRODUCTIVE EFFECTS..... N.AV.
 IRRITANCY OF MATERIAL..... EYE EFFECTS: SEVERE IRRITANT (RABBIT). SKIN EFFECTS: NON-IRRITATING TO INTACT SKIN. MINOR IRRITATION MAY OCCUR ON ABRADED SKIN.
 SENSITIZING CAPABILITY OF MATERIAL. NON-SENSITIZING (HUMANS, 0.25% SODIUM CARBONATE) [TOXICOL. APPL. PHARMACOL. 31:481 (1975)].
 SYNERGISTIC MATERIALS..... N.AV.

Section 12: ECOLOGICAL CONSIDERATIONS

ECOTOXICITY..... DAPHNIA MAGNA 96 HR LC50 = 265 - 565 MG/L. BLUEGILL SUNFISH 96 HR LC50 = 300 - 320 MG/L.
 CHEMICAL FATE INFORMATION..... BIODEGRADABILITY DOES NOT APPLY TO INORGANIC SUBSTANCES. NO SIGNIFICANT TOXICITY TO AQUATIC ORGANISMS IS EXPECTED.

Section 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL..... SALVAGE AS MUCH MATERIAL AS POSSIBLE AND RETURN TO PROCESS IF CONTAMINATION DOES NOT PRESENT A PROBLEM. DISPOSE IN AN ACCEPTED LANDFILL IN ACCORDANCE WITH ACCEPTED GOVERNMENTAL REGULATIONS.

Section 14: TRANSPORT INFORMATION

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

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

ACGIH..... AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS.
 IARC..... INTERNATIONAL AGENCY FOR RESEARCH ON CANCER.
 NTP..... NATIONAL TOXICOLOGY PROGRAM.
 OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
 N.AV.=NOT AVAILABLE
 N.AP.=NOT APPLICABLE