



MURSATT CHEMICALS LIMITED
11 REGALCREST COURT
WOODBRIDGE; 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
WOODBRIDGE, ONTARIO
CANADA
L4L 8P3
PREPARED BY..... REGULATORY AFFAIRS
PREPARATION DATE..... Apr23/14
PRODUCT NAME..... EASY-UP
PRODUCT CODE..... MUR0032
CHEMICAL FORMULA..... NA₂CO₃.
MOLECULAR WEIGHT..... 105.99.
CHEMICAL FAMILY..... ALKALI.
MATERIAL USE..... PH ADJUSTMENT.
EMERGENCY PHONE NO..... CANUTEC (613)-996-6666.

Section 02: HAZARDS IDENTIFICATION

ROUTE OF ENTRY:
SKIN CONTACT..... SYMPTOMS INCLUDE REDNESS, SWELLING, ITCHING AND PAIN.
SKIN ABSORPTION..... N.A.V.
EYE CONTACT..... MAY CAUSE SEVERE EYE IRRITATION. EFFECTS MAY INCLUDE PAIN, MARKED REDNESS AND SWELLING.
INHALATION..... MATERIAL IS IRRITATING TO MUCOUS MEMBRANE AND UPPER RESPIRATORY TRACT. EXPOSURE CAN CAUSE COUGHING, CHEST PAINS AND DIFFICULTY IN BREATHING.
INGESTION..... MAY CAUSE GASTROINTESTINAL IRRITATION, NAUSEA, VOMITING AND DIARRHEA.
EFFECTS OF ACUTE EXPOSURE..... SEE ABOVE.
EFFECTS OF CHRONIC EXPOSURE..... EXCESSIVE CONTACT MAY PRODUCE "SODA ULCERS" ON HANDS AND PERFORATION OF THE NASAL SEPTUM. SENSITIVITY REACTIONS MAY OCCUR FROM PROLONGED AND REPEATED EXPOSURE.

Section 03: 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 04: FIRST AID MEASURES

EYE CONTACT..... IMMEDIATELY FLUSH EYES WITH WATER AND CONTINUE WASHING FOR AT LEAST 15 MINUTES. SEEK IMMEDIATE MEDICAL ATTENTION.
SKIN CONTACT..... IMMEDIATELY WASH WITH PLENTY OF SOAP AND WATER FOR AT LEAST 5 MINUTES. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE. IF IRRITATION PERSISTS OR SIGNS OF TOXICITY OCCUR, SEEK MEDICAL ATTENTION.
INHALATION..... IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. IF THE HEART HAS STOPPED, TRAINED PERSONNEL SHOULD BEGIN CARDIOPULMONARY RESUSCITATION (CPR) IMMEDIATELY. GET MEDICAL ATTENTION IMMEDIATELY.
INGESTION..... DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH IF VICTIM IS RAPIDLY LOSING CONSCIOUSNESS, UNCONSCIOUS OR CONVULSING. SEEK MEDICAL ATTENTION.
NOTES TO PHYSICIAN..... TREATMENT BASED ON SOUND JUDGMENT OF PHYSICIAN AND INDIVIDUAL REACTIONS OF PATIENT.

Section 05: FIRE FIGHTING MEASURES

FLAMMABILITY..... NON-COMBUSTIBLE.
EXTINGUISHING MEDIA..... DOES NOT BURN. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.
SPECIAL PROCEDURES..... FIRE FIGHTERS SHOULD WEAR FULL PROTECTIVE CLOTHING, INCLUDING SELF-CONTAINED BREATHING EQUIPMENT.
FLASH POINT (C), METHOD..... NONE.
AUTO IGNITION TEMPERATURE..... N.A.V.
UPPER FLAMMABLE LIMIT (% BY VOL.).... N.A.P.
LOWER FLAMMABLE LIMIT (% BY VOL.)... N.A.P.
EXPLOSION DATA..... N.A.V.

PRODUCT: EASY-UP**CODE: MUR0032****Section 05: FIRE FIGHTING MEASURES**

EXPLOSIVE POWER..... N.A.V.
RATE OF BURNING..... N.A.V.
SENSITIVITY TO STATIC DISCHARGE..... N.A.V.
SENSITIVITY TO IMPACT..... N.A.V.
HAZARDOUS COMBUSTION PRODUCTS.. CARBON DIOXIDE.

Section 06: ACCIDENTAL RELEASE MEASURES

LEAK/SPILL..... WEAR APPROPRIATE PROTECTIVE EQUIPMENT. PREVENT ENTRY INTO SEWERS OR STREAMS, DIKE IF NEEDED. SPILLS OR RELEASES SHOULD BE REPORTED, IF REQUIRED TO THE APPROPRIATE MUNICIPAL, PROVINCIAL AND FEDERAL AGENCIES. SCOOP UP OR VACUUM UP AND PLACE IN AN APPROPRIATE CLOSED CONTAINER. AVOID RAISING DUST. CAUTIOUSLY SPRAY RESIDUE WITH PLENTY OF WATER. PREVENT SPILLED MATERIAL FROM ENTERING SEWERS, CONFINED SPACES, DRAINS, OR WATERWAYS.

Section 07: HANDLING AND STORAGE

HANDLING PROCEDURES AND

EQUIPMENT..... AVOID BREATHING IN DUST. AVOID PROLONGED CONTACT WITH EYES OR PROLONGED SKIN CONTACT. USE GOOD PERSONAL HYGIENE. WHEN DISSOLVING, ADD TO WATER CAUTIOUSLY WHILE STIRRING; SOLUTIONS CAN GET HOT.

STORAGE NEEDS..... STORE IN A COOL, DRY, WELL VENTILATED AREA. STORE AWAY FROM ACIDS. PROLONGED STORAGE MAY CAUSE PRODUCT TO CAKE AND BECOME DAMP FROM ATMOSPHERIC MOISTURE.

Section 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

GLOVES/ TYPE..... COTTON GLOVES PERMITTED FOR DRY PRODUCT, IMPERVIOUS GLOVES WHEN HANDLING SOLUTIONS.

RESPIRATORY/TYPE..... FOR DUSTY OR MISTY CONDITIONS, WEAR NIOSH-APPROVED DUST OR MIST RESPIRATOR.

EYE/TYPE..... SAFETY GLASSES WITH SIDE SHIELDS OR CHEMICAL GOGGLES.

FOOTWEAR/TYPE..... PROTECTIVE FOOTWEAR.

CLOTHING/TYPE..... AS A MINIMUM, WEAR LONG-SLEEVE SHIRTS. WEAR SARANEX COVERALLS IF CONTACT MAY OCCUR. HARD HAT.

OTHER/TYPE..... ENSURE THAT EYEWASH STATION AND SAFETY SHOWER ARE CLOSE TO WORK-STATION.

ENGINEERING CONTROLS..... LOCAL EXHAUST VENTILATION AS NECESSARY TO MAINTAIN EXPOSURES TO WITHIN APPLICABLE LIMITS.

Section 09: PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE..... SOLID. WHITE.

ODOUR..... ODOURLESS.

ODOUR THRESHOLD..... N.A.P.

VAPOUR PRESSURE (MMHG)..... N.A.P.

VAPOUR DENSITY (AIR=1)..... N.A.P.

EVAPORATION RATE..... N.A.P.

BOILING POINT..... N.A.V.

MELTING POINT (C)..... 854°C / 1569.2°F.

PH..... 11.3-11.4 (1% SOLUTION), 11.6 (5% SOLUTION), 11.7 (10% SOLUTION) @ 20°C.

SPECIFIC GRAVITY (WATER=1)..... 2.533 @ 20°C.

SOLUBILITY IN WATER (% W/W)..... 17% BY WT @ 20°C.

COEFFICIENT OF WATER/OIL DIST..... N.A.P.

Section 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY:..... STABLE.

CONDITIONS TO AVOID:..... HYGROSCOPIC (ABSORBS MOISTURE FROM THE AIR). SIMULTANEOUS EXPOSURE TO SODA ASH AND LIME DUSTS (CAO). IN THE PRESENCE OF MOISTURE (I.E. PERSPIRATION) THE TWO MATERIALS COMBINE TO FORM CORROSIVE CAUSTIC SODA (NAOH) WHICH MAY CAUSE BURNS.

MATERIALS TO AVOID..... ACIDS. SODA ASH IS CORROSIVE TO ALUMINUM, LEAD, AND ZINC AND ZINC BRASSES WHEN IN SOLUTION AND TO ALUMINUM WHEN HIGH HUMIDITY IS PRESENT.

HAZARDOUS PRODUCTS OF

DECOMPOSITION..... CARBON DIOXIDE. DECOMPOSITION TEMPERATURE: 400°C / 752 °F.

HAZARDOUS POLYMERIZATION..... WILL NOT OCCUR.

ADDITIONAL INFORMATION..... 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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EXPOSURE LIMIT OF MATERIAL..... N.AV.
LC 50 OF MATERIAL, SPECIES & ROUTE.. N.AV.
LD 50 OF MATERIAL, SPECIES & ROUTE.. 4090 MG/KG (ORAL, RAT). 2210 MG/KG (DERMAL, MOUSE).
CARCINOGENICITY OF MATERIAL..... IARC: NOT LISTED. ACGIH: NOT LISTED.
REPRODUCTIVE EFFECTS..... N.AV.
IRRITANCY OF MATERIAL..... SEE SECTION 02.
SENSITIZING CAPABILITY OF MATERIAL. N.AV.
SYNERGISTIC MATERIALS..... N.AV.

Section 12: ECOLOGICAL CONSIDERATIONS

ECOTOXICITY..... LC50 (LEPOMIS MACROCHIRUS) 300 MG/L. EC50 (NITZSCHIA) 242 MG/L. LC50 (DAPHNIA MAGNA) 347 MG/L (24HR). LC50 (DAPHNIA MAGNA) 565 MG/L (96HR).

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.A.P.
PACKING GROUP..... N.A.P.
SPECIAL SHIPPING INSTRUCTIONS..... N.A.P.

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.A.V.=NOT AVAILABLE
N.A.P.=NOT APPLICABLE