



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

PRODUCT: SPA PLUS

CODE: MUR0064

SECTION 01: IDENTIFICATION

PRODUCT CODE..... MUR0064
 PRODUCT IDENTIFIER..... SPA PLUS
 OTHER MEANS OF IDENTIFICATION..... CARBONIC ACID, DISODIUM SALT; DISODIUM CARBONATE; SODA ASH SODIUM CARBONATE, ANHYDROUS.
 RECOMMENDED USE AND PH ADJUSTMENT.
 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..... EYE IRRITATION - CATEGORY 2A .
 SIGNAL WORD..... WARNING.
 HAZARD STATEMENT..... H319 CAUSES SERIOUS EYE IRRITATION.
 PRECAUTIONARY STATEMENT..... P264 WASH SKIN THOROUGHLY AFTER HANDLING. P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. P305+P351+P338 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO. CONTINUE RINSING. P337+P313 IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION.
 OTHER HAZARDS..... NONE.

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	CAS #	WT. %
SODIUM CARBONATE	497-19-8	99.8

SECTION 04: FIRST AID MEASURES

DESCRIPTION OF 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 LAUNDRY 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.
 MOST IMPORTANT SYMPTOMS AND SEE SECTION 11.
 EFFECTS, ACUTE OR DELAYED:
 INDICATION OF ANY IMMEDIATE MEDICAL TREATMENT BASED ON SOUND JUDGMENT OF PHYSICIAN AND INDIVIDUAL ATTENTION AND SPECIAL TREATMENT REACTIONS OF PATIENT.
 NEEDED

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SECTION 05: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA..... DOES NOT BURN. USE EXTINGUISHING MEDIA APPROPRIATE FOR SURROUNDING FIRE.
 UNSUITABLE EXTINGUISHING MEDIA..... N.AV.
 SPECIAL HAZARDS ARISING FROM THE PRODUCT: NOT FLAMMABLE.
 HAZARDOUS COMBUSTION PRODUCTS: CARBON DIOXIDE.
 SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS: FIRE FIGHTERS SHOULD WEAR FULL PROTECTIVE CLOTHING, INCLUDING SELF-CONTAINED BREATHING EQUIPMENT.

SECTION 06: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS..... WEAR APPROPRIATE PROTECTIVE EQUIPMENT.
 ENVIRONMENTAL PRECAUTIONS..... PREVENT ENTRY INTO SEWERS OR STREAMS, DIKE IF NEEDED.
 METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP 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

PRECAUTIONS FOR SAFE HANDLING:..... 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.
 CONDITIONS FOR SAFE STORAGE, INCLUDING ANY INCOMPATIBILITIES: 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

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
SODIUM CARBONATE	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
APPROPRIATE ENGINEERING CONTROLS	LOCAL EXHAUST VENTILATION AS NECESSARY TO MAINTAIN EXPOSURES TO WITHIN APPLICABLE LIMITS.					
INDIVIDUAL PROTECTION MEASURE SUCH AS PERSONAL PROTECTIVE EQUIPMENTS:						
HAND PROTECTION.....	COTTON GLOVES PERMITTED FOR DRY PRODUCT, IMPERVIOUS GLOVES WHEN HANDLING SOLUTIONS.					
RESPIRATORY PROTECTION.....	FOR DUSTY OR MISTY CONDITIONS, WEAR NIOSH-APPROVED DUST OR MIST RESPIRATOR.					
EYE PROTECTION.....	SAFETY GLASSES WITH SIDE SHIELDS OR CHEMICAL GOGGLES.					
PROTECTIVE FOOTWEAR.....	PROTECTIVE FOOTWEAR.					
PROTECTIVE CLOTHING.....	AS A MINIMUM, WEAR LONG-SLEEVE SHIRTS. WEAR SARANEX COVERALLS IF CONTACT MAY OCCUR. HARD HAT.					
OTHER.....	ENSURE THAT EYEWASH STATION AND SAFETY SHOWER ARE CLOSE TO WORK-STATION.					
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.
 COLOR..... N.AP.
 ODOUR..... ODOURLESS.
 ODOUR THRESHOLD..... N.AV.
 PH..... 11.3-11.4 (1% SOLUTION), 11.6 (5% SOLUTION), 11.7 (10% SOLUTION) @ 20°C.
 MELTING POINT (C)..... 854°C / 1569.2°F.
 BOILING POINT..... N.AV.
 FLASH POINT (C), METHOD..... NONE.
 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.AP.
 VAPOUR DENSITY (AIR=1)..... N.AP.

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SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES

RELATIVE DENSITY..... 2.533 @ 20°C.
 SOLUBILITY IN WATER (% W/W)..... 17% BY WT @ 20°C.
 COEFFICIENT OF WATER/OIL DIST..... N.AP.
 AUTO IGNITION TEMPERATURE..... N.AV.
 DECOMPOSITION TEMPERATURE..... N.AV.
 VISCOSITY..... NO DATA.

SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:..... HAZARDOUS POLYMERISATION WILL NOT OCCUR.
 CHEMICAL STABILITY:..... STABLE.
 POSSIBILITY OF HAZARDOUS REACTIONS:..... CONTACT WITH ACIDS WILL RELEASE CARBON DIOXIDE GAS. CAN REACT VIOLENTLY WITH RED HOT ALUMINUM METAL; FLUORINE GAS; LITHIUM; AND 2,4,6-TRINITROTOLUENE.
 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.
 INCOMPATIBLE MATERIALS:..... 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.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
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SODIUM CARBONATE	2300 MG/M3 (IHL, RAT) - 2H	4090 MG/KG (ORAL, RAT); 2210 MG/KG (DERMAL, MOUSE)
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INFORMATION ON LIKELY ROUTES OF ENTRY:

SKIN CONTACT..... SYMPTOMS INCLUDE REDNESS, SWELLING, ITCHING AND PAIN.
 SKIN ABSORPTION..... N.AV.
 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.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

CARCINOGENICITY OF MATERIAL..... IARC: NOT LISTED. ACGIH: NOT LISTED.
 TERATOGENICITY..... N.AV.
 MUTAGENICITY..... N.AV.
 REPRODUCTIVE EFFECTS..... N.AV.
 SENSITIZING CAPABILITY OF MATERIAL..... N.AV.
 SYNERGISTIC MATERIALS..... N.AV.

SECTION 12: ECOLOGICAL CONSIDERATIONS

ECOTOXICITY..... N.AV.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS:..... DISPOSE IN AN ACCEPTED LANDFILL IN ACCORDANCE WITH ACCEPTED GOVERNMENTAL REGULATIONS.

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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

IARC..... INTERNATIONAL AGENCY FOR RESEARCH ON CANCER.
 NTP..... NATIONAL TOXICOLOGY PROGRAM.
 OSHA OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
 ACGIH..... AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS.
 PREPARED BY..... REGULATORY AFFAIRS
 PREPARATION DATE..... APR 19/2017