



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

PRODUCT: SPA-DOWN

CODE: MUR0011

SECTION 01: IDENTIFICATION

PRODUCT CODE..... MUR0011
 PRODUCT IDENTIFIER..... SPA-DOWN
 OTHER MEANS OF IDENTIFICATION..... N.AV.
 RECOMMENDED USE AND N.AV.
 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. %
CITRIC ACID	77-92-9	99-100

SECTION 04: FIRST AID MEASURES

DESCRIPTION OF FIRST AID MEASURES:
 EYE CONTACT..... IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IMMEDIATELY.
 SKIN CONTACT..... REMOVE CONTAMINATED CLOTHING. FLUSH WITH LARGE AMOUNTS OF WATER, FOR AT LEAST 15 MINUTES. CONSULT A PHYSICIAN IF IRRITATION PERSISTS.
 INHALATION..... REMOVE VICTIM TO FRESH AIR. SEEK MEDICAL ATTENTION IF SYMPTOMS PERSIST.
 INGESTION..... GET MEDICAL ATTENTION IMMEDIATELY. DO NOT INDUCE VOMITING. IF CONSCIOUS, GIVE SEVERAL GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.
 MOST IMPORTANT SYMPTOMS AND SEE SECTION 11.
 EFFECTS, ACUTE OR DELAYED:
 INDICATION OF ANY IMMEDIATE MEDICAL N.AV.
 ATTENTION AND SPECIAL TREATMENT NEEDED

SECTION 05: FIRE FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA..... CARBON DIOXIDE, DRY CHEMICAL, FOAM, WATER.
 UNSUITABLE EXTINGUISHING MEDIA..... NONE KNOWN.
 SPECIAL HAZARDS ARISING FROM THE PRODUCT: DUST MAY BE SENSITIVE. HIGH DUST CONCENTRATION COULD FORM EXPLOSIVE MIXTURE WITH AIR.
 HAZARDOUS COMBUSTION PRODUCTS. NONE KNOWN.

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SECTION 05: FIRE FIGHTING MEASURES

SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIRE-FIGHTERS: SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING MUST BE WORN IN CASE OF FIRE.

SECTION 06: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS..... AVOID CONTACT WITH SKIN, EYES, OR CLOTHING. AVOID GENERATING DUSTY CONDITIONS. PROVIDE VENTILATION. USE PERSONAL PROTECTION RECOMMENDED IN SECTION 8.

ENVIRONMENTAL PRECAUTIONS..... DO NOT ALLOW TO ENTER DRAINS, SEWERS OR WATERCOURSES.

METHODS AND MATERIALS FOR SWEEP UP OR SHOVEL INTO APPROPRIATE CONTAINERS. FLUSH RESIDUE WITH CONTAINMENT AND CLEANING UP WATER.

SECTION 07: HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING:..... USE ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. WEAR SUITABLE PROTECTIVE CLOTHING. AVOID GENERATING OR BREATHING DUST. DO NOT INGEST.

CONDITIONS FOR SAFE STORAGE, STORE AWAY FROM ALL SOURCES OF IGNITION. STORE AWAY FROM INCLUDING ANY IMCOMPATIBILITIES: INCOMPATIBLE MATERIALS. KEEP CONTAINER CLOSED WHEN NOT IN USE. STORE IN A COOL, DRY AND WELL VENTILATED AREA. GROUNDING AND BONDING PROCEDURES SHOULD BE OBSERVED DURING THE TRANSFER OF THIS MATERIAL AND DURING THE STORAGE OF OPENED CONTAINERS. .

SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENTS	TWA	ACGIH TLV STEL	PEL	OSHA PEL STEL	REL	NIOSH
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CITRIC ACID	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
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APPROPRIATE ENGINEERING CONTROLS LOCAL EXHAUST AT POINTS OF EMISSION.
INDIVIDUAL PROTECTION MEASURE
SUCH AS PERSONAL PROTECTIVE
EQUIPMENTS:

HAND PROTECTION..... CHEMICAL RESISTANT GLOVES. IT IS A GOOD INDUSTRIAL HYGIENE PRACTICE TO MINIMIZE SKIN CONTACT.

RESPIRATORY PROTECTION..... WITH DUST/MIST PREFILTER NIOSH APPROVED CHEMICAL CARTRIDGE RESPIRATOR.

EYE PROTECTION..... CHEMICAL SAFETY GLASSES WITH SIDE SHIELDS OR CHEMICAL SAFETY GOGGLES.

PROTECTIVE CLOTHING..... WEAR APPROPRIATE PROTECTIVE CLOTHING.

PROTECTIVE FOOTWEAR..... WEAR SUITABLE PROTECTIVE FOOTWEAR.

OTHER..... EYE WASH FACILITY AND EMERGENCY SAFETY SHOWER SHOULD BE IN CLOSE PROXIMITY.

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. GRANULES OR POWDER.

COLOR..... WHITE.

ODOUR..... ODOURLESS.

ODOUR THRESHOLD..... N.AV.

PH..... 2.2 (0.1 N).

MELTING POINT (C)..... 153 C (307 F).

BOILING POINT..... N.AV.

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

EVAPORATION RATE..... N.AP.

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

UPPER FLAMMABLE LIMIT (% BY VOL.)... N.AV.

LOWER FLAMMABLE LIMIT (% BY VOL.)... N.AV.

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

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

RELATIVE DENSITY..... 1.665.

SOLUBILITY IN WATER (% W/W)..... >50%.

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

AUTO IGNITION TEMPERATURE..... N.AV.

DECOMPOSITION TEMPERATURE..... N.AV.

VISCOSITY..... N.AP.

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SECTION 10: STABILITY AND REACTIVITY

REACTIVITY:..... HAZARDOUS POLYMERISATION WILL NOT OCCUR.
 CHEMICAL STABILITY:..... STABLE UNDER NORMAL CONDITIONS OF HANDLING AND STORAGE.
 POSSIBILITY OF HAZARDOUS REACTIONS:..... N.AV.
 REACTIONS:
 CONDITIONS TO AVOID:..... MINIMIZE DUST GENERATION AND ACCUMULATION. CONTACT WITH INCOMPATIBLES.
 INCOMPATIBLE MATERIALS:..... ALUMINUM, CARBONATES, STRONG OXIDIZERS, ALUMINUM ALLOYS, ZINC AND ITS ALLOYS, METAL NITRATES, BICARBONATES.
 HAZARDOUS PRODUCTS OF DECOMPOSITION:..... SEE HAZARDOUS COMBUSTION PRODUCTS.

SECTION 11: TOXICOLOGICAL INFORMATION

INGREDIENTS	LC50	LD50
CITRIC ACID	N.AV.	3000 MG/KG (ORAL, RAT); 5040 MG/KG (ORAL, MOUSE)

INFORMATION ON LIKELY ROUTES OF ENTRY:

SKIN CONTACT..... PROLONGED AND REPEATED CONTACT MAY CAUSE MILD IRRITATION.
 SKIN ABSORPTION..... N.AV.
 EYE CONTACT..... MAY CAUSE SEVERE IRRITATION.
 INHALATION..... MAY CAUSE IRRITATION TO THE RESPIRATORY TRACT.
 INGESTION..... MAY CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT.
 EFFECTS OF ACUTE EXPOSURE..... SEE ABOVE.
 EFFECTS OF CHRONIC EXPOSURE..... PROLONGED CONTACT MAY CAUSE IRRITATION OF THE EYES AND SKIN
 PROLONGED CONTACT MAY CAUSE SKIN AND EYE IRRITATION.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

CARCINOGENICITY OF MATERIAL..... IARC: 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.
 PERSISTENCE AND DEGRADATION..... N.AV.
 BIOACCUMULATIVE POTENTIAL..... N.AV.
 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.
 ENVIRONMENTAL HAZARDS ACCORDING TO THE INTERNATIONAL MARITIME DANGEROUS GOODS CODE AND THE UNITED NATIONS MODEL REGULATIONS:..... N.AV.
 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.

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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.

PREPARED BY.....

PREPARATION DATE.....

REGULATORY AFFAIRS
JAN 1/2024