

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

PRODUCT: SHOCK N' SHINE CODE: MUR0057

#### **SECTION 01: IDENTIFICATION**

PRODUCT CODE..... PRODUCT IDENTIFIER.....

OTHER MEANS OF IDENTIFICATION...... RECOMMENDED USE AND .....

SUPPLIER IDENTIFIER.....

**RESTRICTIONS ON USE** 

MUR0057 SHOCK N' SHINE

MICROBIOCIDE/MICROBIOSTAT, DISINFECTANT, SANITIZER, BACTERICIDE,

FUNGICIDE, OR ALGAECIDE. MURSATT CHEMICALS LIMITED 11 REGALCREST COURT WOODBRIDGE, ONTARIO

CANADA L4L 8P3

EMERGENCY PHONE NO...... CANUTEC (613)-996-6666.

## **SECTION 02: HAZARD IDENTIFICATION**



HAZARD CLASSIFICATION.....

OXIDIZING SOLIDS - CATEGORY 2. ACUTE TOXICITY (INHALATION) — CATEGORY 2. ACUTE TOXICITY (ORAL) - CATEGORY 4. SKIN CORROSION — CATEGORY 1C. CORROSIVE TO METALS - CATEGORY 1 . SERIOUS EYE DAMAGE - CATEGORY 1. REPRODUCTIVE TOXICITY — CATEGORY 2. SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - CATEGORY 3 RESPIRATORY SYSTEM. ACUTE AQUATIC TOXICITY - CATEGORY 1. CHRONIC AQUATIC TOXICITY - CATEGORY 1.

SIGNAL WORD..... HAZARD STATEMENT.....

DANGER. H272 MAY INTENSIFY FIRE; OXIDIZER. H290 MAY BE CORROSIVE TO METALS. H361 SUSPECTED OF DAMAGING FERTILITY OR THE UNBORN CHILD. H302 HARMFUL IF SWALLOWED. H314 CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. H318 CAUSES SERIOUS EYE DAMAGE. H330 FATAL IF INHALED. H335 MAY CAUSE RESPIRATORY IRRITATION. H400 VERY TOXIC TO AQUATIC LIFE. H410 VERY

TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS.

PRECAUTIONARY STATEMENT.....

P201 OBTAIN SPECIAL INSTRUCTIONS BEFORE USE. P202 DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. P308+P313 IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ATTENTION. P210 KEEP AWAY FROM HEAT/SPARKS/OPEN FLAMES/HOT SURFACES. - NO SMOKING. P220 KEEP/STORE AWAY FROM CLOTHING/COMBUSTIBLE MATERIALS. P221 TAKE ANY PRECAUTION TO AVOID MIXING WITH COMBUSTIBLES.... P234 KEEP ONLY IN ORIGINAL CONTAINER. P280 WEAR PROTECTIVE GLOVES/PROTECTIVE CLOTHING/EYE PROTECTION/FACE PROTECTION. P390 ABSORB SPILLAGE TO PREVENT MATERIAL DAMAGE. P406 STORE IN CORROSIVE RESISTANT CONTAINER WITH A RESISTANT INNER LINER. P370+P378 IN CASE OF FIRE: USE ONLY WATER FOR EXTINCTION. P260 DO NOT BREATHE DUST/FUME/GAS/MIST/VAPOURS/SPRAY. P271 USE ONLY OUTDOORS OR IN A

WELL-VENTILATED AREA. P284 WEAR RESPIRATORY PROTECTION. P304+P340 IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. P310 IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. P321 SPECIFIC TREATMENT (SEE SUPPLEMENTAL FIRST AID INSTRUCTIONS ON THE SAFETY DATA SHEET). P403+Y-203 STORE IN A SHEET DATA SHEET S

WELL-VENTILATED PLACE. KEEP CONTAINER TIGHTLY CLOSED. P264 WASH SKIN THOROUGHLY AFTER HANDLING. P270 DO NO EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. P301+P330+P331 IF SWALLOWED: RINSE MOUTH. DO NOT

INDUCE VOMITING. P301+P312 IF SWALLOWED: CALL A POISON CENTER OR DOCTOR/PHYSICIAN IF YOU FEEL UNWELL. P363 WASH CONTAMINATED CLOTHING BEFORE REUSE. P305+P351+P338+P310 IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES,

IF PRESENT AND EASY TO DO. CONTINUE RINSING. IMMEDIATELY CALL A POISON CENTER OR DOCTOR/PHYSICIAN. P261 AVOID BREATHING DUST/FUME/GAS/MIST/VAPOURS/SPRAY. P405 STORE LOCKED UP. P501 DISPOSE

OF CONTENTS/CONTAINER TO APPROPRIATE WASTE SITE OR RECLAIMER IN

ACCORDANCE WITH LOCAL AND NATIONAL REGULATIONS.
DAMP OR WET MATERIAL MAY GENERATE NITROGEN TRICHLORIDE, AN OTHER HAZARDS..... EXPLOSION HAZARD. CONTACT WITH ACIDS LIBERATES TOXIC GAS.

PRODUCT: SHOCK N' SHINE CODE: MUR0057

SECTION 03: COMPOSITION/INFORMATION ON INGREDIENTS				
HAZARDOUS INGREDIENTS	CAS#	WT. %		
1,3,5-TRIAZINE-2,4,6 (1H,3H,5H)-TRIONE, 1,3-DICHLORO-, SODIUM SALT	2893-78-9	~73		
SODIUM BICARBONATE	144-55-8	7		
CITRIC ACID	77-92-9	10		
BORIC ACID	10043-35-3	3		
ALUMINUM SULFATE HYDRATE	16828-12-9	5		

### **SECTION 04: FIRST AID MEASURES**

**DESCRIPTION OF FIRST AID MEASURES:** 

HOLD EYE OPEN AND RINSE SLOWLY WITH A STEADY, GENTLE STREAM OF WATER FOR 15 TO 20 MINUTES. REMOVE CONTACT LENSES, IF PRESENT, AFTER EYE CONTACT.....

THE FIRST 5 MINUTES. THEN CONTINUE RINSING EYE. CALL A POISON CENTRE

OR PHYSICIAN FOR TREATMENT ADVICE. SKIN CONTACT.....

TAKE OFF CONTAMINATED CLOTHING. WASH SKIN WITH PLENTY OF WATER FOR 15 TO 20 MINUTES. CALL A POISON CONTROL CENTER OR PHYSICIAN FOR

TREATMENT ADVICE.

MOVE PERSON TO FRESH AIR. IF PERSON IS NOT BREATHING, CALL 911 OR AN AMBULANCE, THEN GIVE ARTIFICIAL RESPIRATION, PREFERABLY INHALATION.....

MOUTH-TO-MOUTH, IF POSSIBLE. CALL A POISON CONTROL CENTER OR PHYSICIAN FOR TREATMENT ADVICE. .
CALL A PHYSICIAN OR POISON CONTROL CENTER IMMEDIATELY FOR

INGESTION.....

TREATMENT ADVICE. DRINK PROMPTLY LARGE QUANTITIES OF WATER. DO NOT INDUCE VOMITING UNLESS TOLD TO DO SO BY POISON CONTROL CENTER OR PHYSICIAN. AVOID ALCOHOL. DO NOT GIVE ANYTHING BY MOUTH TO AN

UNCONSCIOUS PERSON...

MOST IMPORTANT SYMPTOMS AND ...... SEE SECTION 11.

EFFECTS, ACUTE OR DELAYED: INDICATION OF ANY IMMEDIATE MEDICAL NOTE TO PHYSICIAN: PROBABLE MUCOSAL DAMAGE MAY CONTRAINDICATE THE ATTENTION AND SPECIAL TREATMENT USE OF GASTRIC LAVAGE.

**NEEDED** 

#### SECTION 05: FIRE FIGHTING MEASURES

FLOOD WITH COPIOUS AMOUNTS OF WATER. SUITABLE EXTINGUISHING MEDIA.

UNSUITABLE EXTINGUISHING MEDIA...... DO NOT USE ABC FIRE EXTINGUISHERS. DO NOT USE DRY CHEMICALS, CARBON

DIOXIDE, OR HALOGENATED EXTINGUISHING AGENTS.

SPECIAL HAZARDS ARISING FROM THE

PRODUCT:

NEGLIGIBLE FIRE HAZARD. IF HEATED BY OUTSIDE SOURCE TO TEMPERATURES ABOVE 240 C (464 F). THIS PRODUCT WILL UNDERGO DECOMPOSITION WITH THE EVOLUTION OF NOXIOUS GASES BUT NO VISIBLE FLAME. WET MATERIAL MAY GENERATE NITROGEN TRICHLORIDE, AN EXPLOSION HAZARD. DRY ALUM WILL DISSOLVE IN WATER TO FORM SULFURIC ACID WHICH REACTS WITH SOME METALS, ESPECIALLY WHEN DILUTE, TO GIVE FLAMMABLE, POTENTIALLY

EXPLOSIVE HYDROGEN GAS. HYDROGEN GAS CAN ACCUMULATE TO EXPLOSIVE

CONCENTRATIONS INSIDE CONFINED SPACES. HAZARDOUS COMBUSTION PRODUCTS.

DECOMPOSES INTO HAZARDOUS GASES IN A FIRE. OXIDES OF SULPHUR. ALUMINUM OXIDES. CORROSIVE FUMES. MAY PRODUCE BORON COMPOUNDS IF INVOLVED IN A SURROUNDING FIRE. CARBON OXIDES (CO, CO2). SODIUM

OXIDES

SPECIAL PROTECTIVE EQUIPMENT AND

PRECAUTIONS FOR FIRE-FIGHTERS:

CONSIDER EVACUATION OF PERSONNEL LOCATED DOWNWIND. KEEP UNNECESSARY PEOPLE AWAY, ISOLATE HAZARD AREA AND DENY EN!RY. MOVE CONTAINER FROM FIRE AREA IF IT CAN BE DONE WITHOUT RISK. AVOID INHALATION OF MATERIAL OR COMBUSTION BY-PRODUCTS. STAY UPWIND AND KEEP OUT OF LOW AREAS. WEAR NIOSH APPROVED POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS OPERATED ON PRESSURE DEMAND MODE. MATERIAL WHICH APPEARS UNDAMAGED EXCEPT FOR BEING DAMP ON THE OUTSIDE SHOULD BE OPENED AND INSPECTED IMMEDIATELY. DO NOT ATTEMPT TO RESEAL CONTAMINATED DRUMS. DAMP MATERIAL SHOULD BE

NEUTRALIZED TO A NON OXIDIZING SLATE.

#### SECTION 06: ACCIDENTAL RELEASE MEASURES

FOLLOW PROTECTIVE MEASURES INDICATED ON SECTION 8. EXPOSURE PERSONAL PRECAUTIONS.....

CONTROL - PERSONAL PROTECTION FOR BOTH EMERGENCY AND

NON--EMERGENCY PERSONNEL.

ENVIRONMENTAL PRECAUTIONS..... KEEP PRODUCT OUT OF SEWERS, WATERSHEDS, AND WATER SYSTEMS. PRODUCT: SHOCK N' SHINE CODE: MUR0057

# **SECTION 06: ACCIDENTAL RELEASE MEASURES**

METHODS AND MATERIALS FOR ..... CONTAINMENT AND CLEANING UP

CONTAIN SPILLED MATERIAL. ANY SPILLAGE SHOULD BE CLEANED UP AS SOON AS POSSIBLE. DO NOT ADD WATER TO SPILLED MATERIAL. USING CLEAN, DEDICATED EQUIPMENT, SWEEP AND SCOOP ALL SPILLED MATERIAL, CONTAMINATED SOIL, AND OTHER CONTAMINATED MATERIALS AND PLACE ONTO CLEAN, DRY CONTAINERS FOR DISPOSAL. DO NOT USE CLOSE DRUMS CONTAINING WET OR DAMP MATERIAL. THEY SHOULD BE LEFT OPEN TO DISPERSE ANY NITROGEN TRICHLORIDE THAT MAY FORM. DO NOT TRANSPORT WET OR DAMP MATERIAL. .

## **SECTION 07: HANDLING AND STORAGE**

PRECAUTIONS FOR SAFE HANDLING:.....

DO NOT GET ONTO EYES, ON SKIN OR ON CLOTHING. AVOID BREATHING DUST OR FUMES WASH THOROUGHLY WITH SOAP AND WATER AFTER HANDLING. REMOVE AND WASH CONTAMINATED CLOTHING BEFORE REUSE. NEVER ADD WATER TO PRODUCT. ALWAYS ADD PRODUCT TO LARGE QUANTITIES OF WATER. USE CLEAN DRY UTENSILS. DO NOT ADD THIS PRODUCT TO ANY DISPERSING DEVICE CONTAINING REMNANTS OF ANY OTHER PRODUCT. AVOID CONTAMINATION WITH MOISTURE, ORGANIC MATTER, OR OTHER CHEMICALS. AVOID RELEASE TO SEWERS. WATERSHEDS. AND WATER SYSTEMS THROUGH HANDLING. VAPOR SPACE IN CLOSED CONTAINER MAY CONTAIN A SLIGHT AMOUNT OF CHLORINE GAS AND OTHER CHLORINE CONTAINING COMPOUNDS FROM DECOMPOSITION OF PRODUCT. EXPOSURE TO CHLORINE GAS MAY CAUSE BURNING OF THE EYES WITH TEARING; BURNING OF THE NOSE AND MOUTH WITH RUNNY NOSE; AND IRRITATION OF THE LININGS OF THE ENTIRE RESPIRATORY TRACT WITH COUGHING, A CHOKING SENSATION, SUBSTERNAL PAIN, VOMITING, NAUSEA, HEADACHE, DIZZINESS AND FAINTING. THE ONSET OF SEVERE RESPIRATORY SYMPTOMS FOLLOWING EXPOSURE TO CHLORINE, INCLUDING PULMONARY EDEMA AND PNEUMONITIS, MAY BE DELAYED DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE. KEEP MATERIAL DRY AND IN DRY AREA. STORE IN ORIGINAL CONTAINER, RETIE POLYETHYLENE

CONDITIONS FOR SAFE STORAGE, ....... INCLUDING ANY IMCOMPATIBILITES:

LINER AND KEEP CONTAINER TIGHTLY CLOSED. STORE WHERE TEMPERATURES DO NOT EXCEED 125 F (52 C) FOR 24 HOURS.

### SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

INGREDIENTS	TWA ACGII	HTLV STEL	OSHA PEL	NPEL STEL	NIOSH REL
1,3,5-TRIAZINE-2,4,6 (1H,3H,5H)-TRIONE, 1,3-DICHLORO-, SODIUM SALT	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
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.
CITRIC ACID	N.AV.	N.AV.	N.AV.	N.AV.	N.AV.
BORIC ACID	15 MG/M3 TOTAL DUST; 5 MG/M3 RESPIRABLE DUST	N.AV.	15 MG/M3 TOTAL DUST; 5 MG/M3 RESPIRABLE DUST	N.AV.	N.AV.
ALUMINUM SULFATE HYDRATE	2 MG/M3 AS ALUMINUM (SOLUBLE SALTS)	N.AV.	2 MG/M3 AS ALUMINUM (SOLUBLE SALTS)	N.AV.	N.AV.
APPROPRIATE ENGINEERING CONTROLS GENERAL ROOM VENTILATION PLUS LOCAL EXHAUST AT POINTS OF EMISSION					

APPROPRIATE ENGINEERING CON TO MINIMIZE EXPOSURE TO DUST OR VAPORS.

INDIVIDUAL PROTECTION MEASURE SUCH AS PERSONAL PROTECTIVE **EQUIPMENTS** 

HAND PROTECTION..... WEAR CHEMICAL RESISTANT GLOVES.

RESPIRATORY PROTECTION..... AVOID BREATHING DUST OR VAPOR. WEAR AN OFFICIALLY APPROVED RESPIRATOR EQUIPPED WITH CHEMICAL CARTRIDGE FOR PROTECTION AGAINST CHLORINE GAS AND DUST. NIOSH/MSHA APPROVED RESPIRATOR, FOLLOWING

MANUFACTURER'S RECOMMENDATIONS, SHOULD BE USED AS A

PRECAUTIONARY MEASURE WHERE AIRBORNE CONTAMINANTS MAY OCCUR.

EYE PROTECTION..... WEAR CHEMICAL SAFETY GOGGLES

PROTECTIVE CLOTHING..... WEAR PROTECTIVE CLOTHING TO PREVENT SKIN CONTACT. LONG-SLEEVED

SHIRT, LONG PANTS.

PRODUCT: SHOCK N' SHINE CODE: MUR0057

#### SECTION 08: EXPOSURE CONTROLS AND PERSONAL PROTECTION

## **SECTION 09: PHYSICAL AND CHEMICAL PROPERTIES**

COLOR	SOLID. CRYSTALS/GRANULES. WHITE. SLIGHT CHLORINE ODOR. N.AV. N.AV. DECOMPOSES WITHOUT MELTING @ 252 C (486 F). N.AP. NONE. N.AP. N.AV.
-------	--

### **SECTION 10: STABILITY AND REACTIVITY**

REACTIVITY:.... HAZARDOUS POLYMERISATION WILL NOT OCCUR. THIS MATERIAL IS A STRONG OXIDIZING AGENT.
STABLE UNDER NORMAL CONDITIONS OF HANDLING AND STORAGE CHEMICAL STABILITY:... POSSIBILITY OF HAZARDOUS ..... DO NOT GET WATER INSIDE CONTAINER. WET MATERIAL MAY GENERATE NITROGEN TRICHLORIDE, AN EXPLOSION HAZARD. AVOID CONTACT WITH EASILY REACTIONS: OXIDIZABLE ORGANIC MATERIAL. CONTACT WITH ACIDS LIBERATES TOXIC GAS. THE PREPARATION OF CONCENTRATED SOLUTIONS OR SLURRIES IS NOT CONDITIONS TO AVOID..... RECOMMENDED. AVOID CONTACT WITH WATER ON CONCENTRATED MATERIAL IN THE CONTAINER. CONTACT WITH WATER FORMS SULPHURIC ACID. EXPOSURE TO MOISTURE OR MOIST AIR. EXPOSURE TO HIGH TEMPERATURES EASILY OXIDIZABLE ORGANIC MATERIAL; AMMONIA, UREA OR SIMILAR NITROGEN CONTAINING COMPOUNDS; INORGANIC REDUCING COMPOUNDS; FLOOR INCOMPATIBLE MATERIALS:.... SWEEPING COMPOUNDS; CALCIUM HYPOCHLORITE; ALKALIS. ACIDS. WATER. LIME. ALUMINUM. CARBONATES. STRONG OXIDIZERS. ALUMINUM ALLOYS. ZINC AND ITS ALLOYS. METAL NITRATES. BICARBONATES. BORIC ACID REACTS WITH STRONG REDUCING AGENTS SUCH AS METAL HYDRIDES OR ALKALI METALS PRODUCING EXPLOSIVE HYDROGEN GAS. STRONG BASES, STRONG OXIDIZING AGENTS. ALKALIS. WATER-REACTIVE MATERIALS SUCH AS OLEUM CAUSE EXOTHERMIC REACTIONS.
BORATES. CHLORINE CONTAINING GASES CAN BE PRODUCED. AT HIGH HAZARDOUS PRODUCTS OF ..... TEMPERATURE MAY LIBERATE TOXIC GASES. AT TEMPERATURES ABOVE 760°C DECOMPOSITION SULFUR OXIDE GASES ARE RELEASED WHICH ARE TOXIC. CORROSIVE AND ARE OXIDIZERS. THE REMAINING RESIDUE IS CAUSTIC. THE TRIOXIDE IS ALSO A FIRE HAZARD. OXIDES OF ALUMINUM.

# **SECTION 11: TOXICOLOGICAL INFORMATION**

INGREDIENTS	LC50	LD50
1,3,5-TRIAZINE-2,4,6 (1H,3H,5H)-TRIONE, 1,3-DICHLORO-, SODIUM SALT	SEE SECTION 11	SEE SECTION 11
SODIUM BICARBONATE	> 4.7 MG/L/4H (IHL, RAT)	7.3 G/KG (ORAL, RAT)
CITRIC ACID	N.AV.	5040 MG/KG (ORAL, MOUSE); 30000 MG/KG (ORAL, RAT)

PRODUCT: SHOCK N' SHINE CODE: MUR0057

SECTION 11: TOXICOLOGICAL INFORMATION				
BORIC ACID	N.AV.	2660 MG/KG (ORAL, RAT); >2000 MG/KG (DERMAL, RABBIT)		
ALUMINUM SULFATE HYDRATE	N.AV.	>9000 MG/KG (ORAL, RAT); >9000 MG/KG (ORAL, MOUSE)		
LD 50 OF MATERIAL, SPECIES & ROUTE.	FOR 1,3,5-TRIAZINE-2,4,6 (1H,3H,5H)-TRIONE, 1,3-DIC MG/KG BW (ORAL, RAT); >2000 MG/KG BW (DERMAL,	CHLORO-, SODIUM SALT:. 1823		
LC 50 OF MATERIAL, SPECIES & ROUTE.	FOR 1,3,5-TRIAZINE-2,4,6 (1H,3H,5H)-TRIONE, 1,3-DIC 1.17 MG/L 4H (INH, RAT).	CHLORO-, SODIUM SALT:. 0.27 -		
INFORMATION ON LIKELY ROUTES OF ENTRY:				
SKIN CONTACT	CAN CAUSE SEVERE IRRITATION AND/OR BURNS, C REDNESS, SWELLING AND SCAB FORMATION.	HARACTERUIZED BY		
SKIN ABSORPTIONEYE CONTACT	N.AV. EXPOSURE TO SOLID ALONG WITH MOISTURE MAIRRITATION, BURNING SENSATION, SWELLING, BLIS SECOND, OR THIRD DEGREE BURNS. DRY MATERIA WET MATERIAL. THIS MATERIAL IS NOT A SKIN SENSWITH GUINEA PIGS.	TER FORMATION, FIRST, L IS LESS IRRITATING THAN		
INHALATION	THIS MATERIAL IN THE FORM AS SOLID IS NOT EXPRESPIRATORY EFFECTS. PARTICLES F RESPIRABLE ENCOUNTERED. THE RESPIRABLE FRACTION IS TYI WEIGHT FOR THE GRANULAR GRADES. IF GROUNI POWDERED FORM, EFFECTS SIMILAR TO CORROSI EXPOSURE TO THE SOLID PRODUCT OR TO FREE CONTROL THE PRODUCT MAY CAUSE IRRITATRON. REDNESS AIRWAY, COUGHING, LARYNGEOSPASM AND EDEM	E SIZE ARE GENERALLY NOT PICALLY LESS THAN 0.1% BY D OR OTHERWISE IN A VE SUBSTANCE MAY OCCUR. CHLORINE EVOLVING FROM OF UPPER AND LOWER A. SHORTNESS OF BREATH.		
INGESTION	BRONCHOCONSTRICTION. AND POSSIBLE PULMON EDEMA MAY DEVELOP SEVERAL HOURS AFTER A S EXPOSURE BY INGESTION MAY CAUSE IRRITATION, CAUSE LOCAL TISSUE DAMAGE TO EPIGLOTTIS. ML MOUTH, ESOPHAGUS AND STOMACH SUCH AS BUR ULCERATION, AND MAY CAUSE GASTROINTESTINAL	EVERE ACUTE EXPÓSURE. NAUSEA AND VOMITING. MAY ICUS MEMBRANES OF THE NING. INFLAMMATION, LOCAL		
EFFECTS OF ACUTE EXPOSURE EFFECTS OF CHRONIC EXPOSURE	SEE ABOVE. NONE IDENTIFIED FOR THE PARENT CHEMICAL. BASEXPOSURE TO CONCENTRATIONS OF MONOSODIUS SOLUBILITY LIMIT MAY CAUSE CARDIOVASCULAR, R BLADDER EFFECTS. PROLONGED CONTACT MAY CAUSE EYES AND SKIN PROLONGED CONTACT MAY CAUSE	M CYANURATE AT THE (IDNEY AND URINARY AUSE IRRITATION OF THE		
SIGNS AND SYMPTOMS OF	ETES AND SKIN PROLONGED CONTACT WAT CAUSE	SKIN AND ETE IKKITATION.		
OVEREXPOSURE CARCINOGENICITY OF MATERIAL				
TERATOGENICITYMUTAGENICITY	N.AV. NOT CLASSIFIED AS A MUTAGEN PER GHS CRITERI. SALMONELLA STRAINS AND 1 E. COLI STRAIN WITH MICROSOMAL ACTIVATION.			
REPRODUCTIVE EFFECTS	BORIC ACID: REPRODUCTIVE TOXIN CATEGORY 1B CLASSIFICATION. DIETARY LEVELS OF BORIC ACID FEEDING STUDIES IN RATS AND DOGS PRODUCED FISHER, 1972). IN CHRONIC FEEDING STUDIES OF M 5,000 PPM BORIC ACID, TESTICULAR ATROPHY WAS 2,500 PPM SODIUM TETRABORATE PENTAHYDRATE INCREASE IN TESTICULAR ATROPHY. IN ANOTHER OBEGENERATION OF SEMINIFEROUS TUBULES WAS REDUCTION OF GERM CELLS IN MICE FED 4,500 PPI PENTAHYDRATE. BORIC ACID AT DIETARY LEVELS OF PREGNANT FEMALE RATS THROUGHOUT GESTAREDUCTION IN FETAL WEIGHT, BUT WAS CONSIDER OBSERVABLE AFFECT LEVEL. DOSES OF 2,000 PPI MALFORMATIONS AND MATERNAL TOXICITY. IN MICE FETAL WEIGHT REDUCTION AND MATERNAL TOXICITY ABOVE. MALFORMATIONS (AGENESIS OR SHORTEN WERE SEEN AT 4,000 PPM [HEINDAL ET AL., 1992]. TWERE MANY TIMES IN EXCESS OF THOSE TO WHICE BE EXPOSED.	OF 6,700 PPM IN CHRONIC TESTICULAR CHANGES (WEIR, IICE ON DIETS CONTAINING S PRESENT, WHILE MICE FED SHOWED NO SIGNIFICANT CHRONIC BORIC ACID STUDY, PRESENT TOGETHER WITH A M SODIUM TETRABORATE OF 1,000 PPM ADMINISTERED ATION CAUSED A SLIGHT RED CLOSE TO THE NO I AND ABOVE CAUSED FETAL SE, THE NO EFFECT LEVEL FOR TY WAS 1,000 PPM BORIC Y LEVELS OF 2,000 PPM AND IING OF THE THIRTEENTH RIB)		
SENSITIZING CAPABILITY OF MATERIAL SYNERGISTIC MATERIALS				

PRODUCT: SHOCK N' SHINE CODE: MUR0057

## **SECTION 11: TOXICOLOGICAL INFORMATION**

ADDITIONAL INFORMATION.....

ALUMINUM SULPHATE HAS BEEN SHOWN TO CAUSE LIVER, KIDNEY AND NERVOUS SYSTEM TOXICITY WHEN TESTED IN LABORATORY ANIMALS. REPEATED INGESTION MAY CAUSE PHOSPHATE DEFICIENCY, WHICH CAN WEAKEN BONES. ALUMINUM SULPHATE HAS BEEN SHOWN TO CAUSE AN INCREASE IN CHROMOSOMAL BREAKS WHEN TESTED IN RAT SOMATIC CELLS IN VIVO AND TO INDUCE SISTER CHROMATID EXCHANGES, CHROMOSOMAL ABERRATIONS AND MICRONUCLEI IN HUMAN LEUKOCYTES UNDER IN VITRO CONDITIONS. SKIN IRRITATION MAY BE AGGRAVATED IN INDIVIDUALS WITH EXISTING SKIN LESIONS. BREATHING OF DUST MAY AGGRAVATE ACUTE OR CHRONIC ASTHMA AND CHRONIC PULMONARY DISEASE SUCH AS EMPHYSEMA AND BRONCHITIS.

## **SECTION 12: ECOLOGICAL CONSIDERATIONS**

ECOTOXICITY.... N.AV PERSISTENCE AND DEGRADATION...... N.AV. BIOACCUMULATIVE POTENTIAL..... N.AV. MOBILITY IN SOIL..... N.AV. OTHER ADVERSE EFFECTS..... N.AV.

## **SECTION 13: DISPOSAL CONSIDERATIONS**

WASTE TREATMENT METHODS:...... DISPOSE IN ACCORDANCE WITH ALL APPLICABLE REGULATIONS.

### **SECTION 14: TRANSPORT INFORMATION**

**UN NUMBER** 

SULPHATE HYDRATE).

TDG CLASSIFICATION..... 5.1 (8).

PACKING GROUP.....

ENVIRONMENTAL HAZARDS ACCORDING MARINE POLLUTANT.

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 THET ARE APPROPRIATE.

**REGULATORY AFFAIRS** 

PREPARED BY..... PREPARATION DATE..... JUN 14/2017