



MATERIAL SAFETY DATA SHEET

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BLUE WAVE BLITZ

DATE PREPARED: 4/25/05

MANUFACTURER NAME: SUNCOAST CHEMICALS COMPANY
MANUFACTURER ADDRESS: 14480 62ND ST NORTH.
CLEARWATER, FL 33760
MANUFACTURER PHONE: (727) 531-8913

SUPPLIER NAME AND ADDRESS: SUNCOAST CHEMICALS COMPANY
14480 62ND STREET NORTH
CLEARWATER, FL 33760
SUPPLIER PHONE: (727) 531-8913

EMERGENCY PHONE - 24 HOURS: CALL CHEM-TEL, INC. (800) 255-3924

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	WT. %	OSHA PEL	ACGIH TLV	CAS REGISTRY #
POTASSIUM PEROXYMONOSULFATE	43%			10058-23-8
POTASSIUM BISULFATE	23%			7646-93-7
POTASSIUM SULFATE	29%			7778-80-5
POTASSIUM PEROXYDISULFATE	3%			7727-21-1
MAGNESIUM CARBONATE	2%			546-93-0
COMBINATION KNOWN AS: POTASSIUM HYDROGEN PEROXYMONOSULFATE SULFATE				70693-62-8

SECTION 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

POTENTIAL HEALTH EFFECTS: THIS PRODUCT IS A SKIN AND EYE CORROSIVE, AND A NOSE AND THROAT IRRITANT. MAY CAUSE ALLERGIC SKIN REACTIONS IN SENSITIVE INDIVIDUALS. INGESTION MAY CAUSE INFLAMMATION AND DAMAGE TO THE LINING OF THE STOMACH, RESULTING IN BLEEDING.

INHALATION: MAY CAUSE NOSE BLEEDS AND IRRITATION OF THE UPPER RESPIRATORY

PASSAGES WITH COUGHING AND DISCOMFORT. INGESTION MAY CAUSE GASTRITIS POSSIBLY PROGRESSING TO NECROSIS OR HEMORRHAGE.

EYE CONTACT: MAY CAUSE EYE CORROSION OR ULCERATION. SEVERE EYE DAMAGE MAY RESULT IF NOT IMMEDIATELY TREATED.

SKIN CONTACT: SKIN CONTACT WITH AQUEOUS SOLUTIONS OR DRY POWDER UPON CONTACT WITH MOISTURE OR PERSPIRATION MAY CAUSE SKIN BURNS OR ULCERATION; TEMPORARY BODY HAIR LOSS MAY OCCUR IN CONTACTED AREAS. SKIN CONTACT WITH THE PRODUCT MAY CAUSE ALLERGIC SKIN REACTIONS IN SENSITIVE INDIVIDUALS. HUMAN PATCH TESTS WITH THE PRODUCT DILUTED IN WATER AT CONCENTRATIONS UP TO 150 PPM DID NOT CAUSE ALLERGIC SKIN REACTION.

INDIVIDUALS WITH PREEXISTING DISEASES OF THE SKIN OR GASTROINTESTINAL TRACT MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

INGESTION: N/A

CARCINOGENICITY INFORMATION: NONE OF THE COMPONENTS PRESENT AT CONCENTRATIONS EQUAL TO OR GREATER THAN 0.1% ARE LISTED BY IARC, NTP, OSHA OR ACGIH AS A CARCINOGEN.

HMIS HAZARD CODE: HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 1
NFPA HAZARD CODE: HEALTH: 3 FLAMMABILITY: 0 REACTIVITY: 1

SECTION 4. FIRST AID MEASURES

INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. CALL A PHYSICIAN.

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES, WHILE HOLDING EYELIDS OPEN. CALL A PHYSICIAN.

SKIN CONTACT: IMMEDIATELY FLUSH SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES, WHILE REMOVING ALL CONTAMINATED CLOTHING. FOR SKIN CONTACT, FLUSH WITH LARGE AMOUNTS OF WATER. CALL A PHYSICIAN. WASH CONTAMINATED CLOTHING BEFORE REUSE.

INGESTION: IF SWALLOWED, DO NOT INDUCE VOMITING. IMMEDIATELY GIVE 2 GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO A VICTIM WHO IS UNCONSCIOUS OR IS HAVING CONVULSIONS. CALL A PHYSICIAN.

SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT: N/A

OSHA FLAMMABILITY: WILL NOT BURN

FIRE AND EXPLOSION HAZARDS:
IMPROPER STORAGE OF LARGE MASSES OF PRODUCT CAN TRAP HEAT AND LEAD TO IGNITION OF COMBUSTIBLES. GRINDING OR INTENSIVE MIXING MAY CAUSE DECOMPOSITION WITH LIBERATION OF HEAT AND

OXYGEN; IGNITION OF OXIDIZABLE MATERIAL, IF PRESENT, MAY OCCUR.

EXTINGUISHING MEDIA:

WATER.

DO NOT USE CARBON DIOXIDE OR OTHER GAS FILLED FIRE EXTINGUISHERS; THEY WILL HAVE NO EFFECT ON DECOMPOSING PERSULFATES.

FIRE FIGHTING EQUIPMENT/INSTRUCTIONS:

WILL RELEAS OXYGEN WHEN HEATED, INTENSIFYING A FIRE. ACIDIC MIST MAY BE PRESENT; SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED.

HAZARDOUS COMBUSTION PRODUCTS:

IRRITATING AND TOXIC GASES OR FUMES MAY BE RELEASED DURING A FIRE.

SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES: SWEEP UP. FLUSH AREA WITH LOW PRESSURE WATER.

SECTION 7. HANDLING AND STORAGE

HANDLING PROCEDURES:

DO NOT INHALE. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. WASH THOROUGHLY AFTER HANDLING. WASH CLOTHING AFTER USE.

STORAGE PROCEDURES:

STORE IN A DRY WELL-VENTILATED AREA AWAY FROM HEAT SOURCES SUCH AS LIGHT FIXTURES OR SPACE HEATERS.

PALLETS OF 25 KG. BAGS CAN BE STACKED. LEAVE OPEN SPACE ON ALL SIDES OF EACH PALLET TO PROVIDE VENTILATION. SEE LOCAL FIRE CODES FOR ALLOWABLE LIMITS. BULK BAGS SHOULD BE STORED ON PALLETS; IF STACKED USED PYRAMID STYLE, NO MORE THAN 2 PALLETS HIGH.

CLOSELY STACKED BAGS SHOULD NOT EXCEED 4 FT CUBE. KEEP PACKAGES DRY. DO NOT STORE WITH COMBUSTIBLE MATERIALS OR WITH INCOMPATIBLES.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS: USE LOCAL EXHAUST VENTILATION.

PERSONAL PROTECTIVE EQUIPMENT: EYES/FACE

WEAR SAFETY GLASSES OR COVERALL CHEMICAL SPLASH GOGGLES;

PERSONAL PROTECTIVE EQUIPMENT: RESPIRATORY

A NIOSH APPROVED AIR-PURIFYING RESPIRATOR WITH AN APPROPRIATE PARTICULATE CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER CERTAIN CIRCUMSTANCES WHERE AIRBORNE

CONCENTRATIONS ARE EXPECTED TO EXCEED EXPOSURE LIMITS. PROTECTION PROVIDED BY AIR-PURIFYING RESPIRATORS IS LIMITED. USE A POSITIVE PRESSURE AIR-SUPPLIED RESPIRATOR IF THERE IS ANY POTENTIAL FOR AN UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN, OR ANY OTHER CIRCUMSTANCES WHERE AIR-PURIFYING RESPIRATORS MAY NOT PROVIDE ADEQUATE PROTECTION.

PROTECTIVE CLOTHING:

IMPERVIOUS GLOVES, APRON, PANTS, JACKET, BOOTS OR WHOLE BODYSUIT.

EXPOSURE GUIDELINES:

EXPOSURE LIMITS:

POTASSIUM HYDROGEN PEROXYMONOSULFATE SULFATE

PEL (OSHA) PARTICULATES (NOT OTHERWISE REGULATED)
15 MG/M3, 8 HR. TWA, TOTAL DUST

TLV (ACGIH) NONE ESTABLISHED
AEL (DUPONT) 1 MG/M3, TOTAL DUST, 8 & 12 HR. TWA

OTHER APPLICABLE EXPOSURE LIMITS:

POTASSIUM SULFATE

PEL (OSHA) NONE ESTABLISHED
TLV (ACGIH) NONE ESTABLISHED
AEL (DUPONT) 10 MG/M3, 8 HR. TWA

POTASSIUM PEROXYDISULFATE

TLV (ACGIH) 0.1 MG/M3, 8 HR. TWA

MAGNESIUM CARBONATE

PEL (OSHA) 15 MG/M3, TOTAL DUST, 8 HR TWA
TLV (ACGIH) 10 MG/M3, TOTAL DUST, 8 HR TWA
AEL (DUPONT) NONE ESTABLISHED

*AEL IS DUPONT'S ACCEPTABLE EXPOSURE LEVEL

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

FLASH POINT: N/A
SPECIFIC GRAVITY: 1.1 – 1.4
VAPOR PRESSURE: NIL
VAPOR DENSITY: NOT VOLATILE
EVAPORATION RATE: (BUTYL ACETATE = 1) NOT VOLATILE
BOILING POINT: @ 760 MM HG DECOMPOSES
MELTING POINT: DECOMPOSES
pH VALUE: 1% SOLUTION = 2.3; 3% SOLUTION = 2.0
FORM: GRANULAR
APPEARANCE: WHITE FREE-FLOWING SOLID
ODOR: NONE

SECTION 10. STABILITY AND REACTIVITY

GENERAL: STABLE WHEN HANDLED AND STORED AS INDICATED.

CONDITIONS TO AVOID: KEEP AWAY FROM HEAT, IGNITION SOURCES AND INCOMPATIBLE MATERIALS.

INCOMPATIBLE MATERIALS: THE MIXTURE OF THIS PRODUCT WITH COMPOUNDS CONTAINING HALIDES OR ACTIVE HALOGENS CAN CAUSE RELEASE OF THE RESPECTIVE HALOGEN IF MOISTURE IS PRESENT. FOR EXAMPLE, MIXING WITH SODIUM DICHLOROISOCYANURATE OR WITH SODIUM CHLORIDE CAN CAUSE RELEASE OF CHLORINE GAS. MIXING WITH CYANIDES CAN CAUSE RELEASE OF HYDROGEN CYANIDE GAS. MIXING WITH HEAVY METAL SALTS SUCH AS THOSE OF COBALT, NICKEL, COPPER, OR MANGANESE CAN CAUSE DECOMPOSITION WITH RELEASE OF OXYGEN AND HEAT.

HAZARDOUS DECOMPOSITION: DECOMPOSES WHEN HEATED OR DAMPENED, RELEASING OXYGEN AND HEAT.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 11. TOXICOLOGICAL INFORMATION

MUTAGENICITY: TESTING HAS SHOWN THIS PRODUCT TO BE NON-MUTAGENIC (AMES TEST).

INHALATION 4 HR LC50: > 5 MG/L IN RATS
SKIN ABSORPTION LD50: > 11,000 MG/KG IN RABBITS
ORAL LD50: 200 – 2000 MG/KG IN RATS

THIS PRODUCT IS A SEVERE SKIN AND EYE IRRITANT, BUT IS NOT A SKIN SENSITIZER IN ANIMALS.

SINGLE EXPOSURES BY INHALATION TO THIS PRODUCT PRODUCED NONSPECIFIC EFFECTS SUCH AS WEIGHT LOSS AND SLIGHT RESPIRATORY IRRITATION. REPEATED INHALATION EXPOSURES PRODUCED EYE IRRITATION AND REVERSIBLE CORNEAL DAMAGE.

ADMINISTRATION OF LARGE SINGLE INGESTION DOSES OF THIS PRODUCT PRODUCED NONSPECIFIC EFFECTS SUCH AS WEIGHT LOSS AND IRRITATION, AS WELL AS GASTRIC ULCERATION, NECROSIS AND HEMORRHAGE. REPEATED ADMINISTRATION OF THIS PRODUCT AT A COMBINED DOSAGE OF 1000/600 MG/KG FOR 13 WEEKS CAUSED PATHOLOGICAL CHANGES OF THE STOMACH, BODY WEIGHT LOSS, GASPING, NOISY RESPIRATION, AND HUNCHED POSTURE. THERE WERE NO TOXIC EFFECTS NOTED AT 20 OR 200 MG/KG AND THE NO-OBSERVED-ADVERSE-EFFECT-LEVEL (NOAEL) IS CONSIDERED TO BE 200 MG/KG.

TESTS FOR CARCINOGENIC ACTIVITY OR REPRODUCTIVE TOXICITY HAVE NOT BEEN PERFORMED. A RANGE-FINDING DEVELOPMENTAL TOXICITY STUDY SHOWED DEVELOPMENTAL EFFECTS IN THE ADULT ANIMAL.

THIS PRODUCT DID NOT PRODUCE GENETIC DAMAGE IN BACTERIAL CELL CULTURES. IT DID PRODUCE DAMAGE IN MAMMALIAN CELL CULTURES. IT DID NOT PRODUCE GENETIC DAMAGE

IN TESTS ON ANIMALS, BUT SHOWED SOME EVIDENCE OF BONE MARROW CELL TOXICITY IN FEMALE MICE.

SECTION 12. ECOLOGICAL INFORMATION

96 HOUR LC50 – RAINBOW TROUT: 53 MG/L
48 HOUR EC50 – DAPHNIA MAGNA: 3.5 MG/L

EXOTOXICITY: COMPONENTS OF THIS PRODUCT ARE HAZARDOUS TO AQUATIC LIFE.

ENVIRONMENTAL FATE: THIS PRODUCT IS BIODEGRADABLE.

SECTION 13. DISPOSAL CONSIDERATIONS

DISPOSE OF IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION 14. TRANSPORT INFORMATION

DOT (Department Of Transportation)

PROPER SHIPPING NAME: CORROSIVE SOLID, ACIDIC, INORGANIC, N.O.S. (MONPERSULFATE COMPOUND)

UN/NA NUMBER: 3260

HAZARD CLASS: 8

PACKING GROUP: II

DOT/IMO LABEL CORROSIVE

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SECTION 15. REGULATORY INFORMATION

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

ACUTE: YES

CHRONIC: NO

FIRE: NO

REACTIVITY: NO

PRESSURE: NO

SARA EXTREMELY HAZARDOUS SUBSTANCE – NO

CERCLA HAZARDOUS MATERIAL – NO

SARA TOXIC CHEMICAL - NO

SECTION 16. OTHER INFORMATION

NONE

Disclaimer:

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