



MATERIAL SAFETY DATA SHEET

SECTION 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: BLUE WAVE HALT 50

DATE PREPARED: 4/15/05

MANUFACTURER NAME: STEPAN COMPANY
MANUFACTURER ADDRESS: 22 WEST FRONTAGE ROAD
NORTHFIELD, IL 60093
MANUFACTURER PHONE: (847) 446-7500

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

EMERGENCY PHONE - 24 HOURS:

SECTION 2. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	WT. %	OSHA PEL	ACGIH TLV	CAS REGISTRY #
DIDECYL DIMETHYL AMMONIUM CHLORIDE	50%	N/A	N/A	7173-51-5
WATER	36-40%	N/A	N/A	7732-18-5
ETHANOL	9-12%	N/A	N/A	64-17-5
_AMINES, BIS(C8-20-BRANCHED AND LINEAR ALKYL)METHYL	0-3%	N/A	N/A	108215-84-5

SECTION 3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

CLEAR LIQUID
DANGER! CORROSIVE FLAMMABLE

MAY CAUSE SEVERE IRRITATION OR BURNS TO THE EYES, SKIN, GASTROINTESTINAL TRACT, AND RESPIRATORY SYSTEM. MAY BE HARMFUL IF SWALLOWED. MAY BE FATAL IF ABSORBED THROUGH SKIN.

POTENTIAL HEALTH EFFECTS:

- INHALATION:** MAY BE MODERATELY TO SEVERLY IRRITATING TO THE RESPIRATORY TRACT AND MUCOUS MEMBRANES. EXCESSIVE INHALATION OF THIS MATERIAL CAUSES HEADACHE, DIZZINESS, NAUSEA AND LOSS OF MOTOR SKILLS.
- EYE CONTACT:** THIS PRODUCT MAY BE CORROSIVE TO EYES.
- SKIN CONTACT:** THIS PRODUCT MAY BE CORROSIVE TO SKIN. MAY BE FATAL IF ABSORBED THROUGH SKIN.
- INGESTION:** THIS PRODUCT MAY BE HARMFUL OR FATAL IF SWALLOWED.

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

SECTION 4. FIRST AID MEASURES

INHALATION:

EYE CONTACT: IMMEDIATELY FLUSH EYES WITH WATER FOR AT LEAST 15 MINUTES, WHILE HOLDING EYELIDS OPEN. SEEK MEDICAL ATTENTION AT ONCE.

SKIN CONTACT: IMMEDIATELY TAKE OFF ALL CONTAMINATED CLOTHING. FOR SKIN CONTACT, FLUSH WITH LARGE AMOUNTS OF WATER. GET MEDICAL ATTENTION OR ADVICE. WASH CONTAMINATED CLOTHING BEFORE REUSE.

INGESTION: IF THE MATERIAL IS SWALLOWED, GET IMMEDIATE MEDICAL ATTENTION OR ADVICE. IF VOMITING OCCURS NATURALLY, HAVE A VICTIM LEAN FORWARD TO REDUCE RISK OF ASPIRATION. DO NOT INDUCE VOMITING. NEVER GIVE ANYTHING BY MOUTH TO A VICTIM WHO IS UNCONSCIOUS OR IS HAVING CONVULSIONS.

NOTE TO PHYSICIAN: IF THE PRODUCT IS INGESTED, PROBABLY MUCOSAL DAMAGE MAY CONTRAINDICATE THE USE OF GASTRIC LAVAGE. TREAT THE AFFECTED PERSON APPROPRIATELY.

SECTION 5. FIRE FIGHTING MEASURES

FLASH POINT: (33.9 C)93 F PMCC

OSHA FLAMMABILITY: FLAMMABLE IC

FIRE AND EXPLOSION HAZARDS:

VAPORS MAY FORM EXPLOSIVE MIXTURE WITH AIR. PRODUCT CONTAINS A FLAMMABLE SOLVENT. VAPORS MAY BE RELEASED THAT TRAVEL LONG DISTANCES, IGNITE AND FLASH BACK.

EXTINGUISHING MEDIA:

DRY CHEMICAL, FOAM, WATER FOG. USE WATER TO COOL FIRE-EXPOSED CONTAINERS AND TO PROTECT PERSONNEL.

FIRE FIGHTING EQUIPMENT/INSTRUCTIONS:

FIREFIGHTERS SHOULD WEAR FULL FIRE-FIGHTING TURN-OUT GEAR (FULL BUNKER GEAR) INCLUDING NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN THE PRESSURE DEMAND OR OTHER POSITIVE PRESSURE MODE.

HAZARDOUS COMBUSTION PRODUCTS:

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

SECTION 6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK PROCEDURES:

EMERGENCY ACTION: ISOLATE SPILL OR LEAK AREA IMMEDIATELY. KEEP UNAUTHORIZED PERSONNEL AWAY. STAY UPWIND. KEEP OUT OF LOW AREAS. VENTILATE CLOSED SPACES BEFORE ENTERING.

ELIMINATE ALL IGNITION SOURCES (NO SMOKING, FLARES, SPARKS OR FLAMES IN IMMEDIATE AREA). WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT DURING CLEANUP. STOP LEAK IF YOU CAN DO IT WITHOUT RISK.

SMALL SPILL: ABSORB OR COVER WITH DRY EARTH, SAND OR OTHER NON-COMBUSTIBLE MATERIAL AND TRANSFER TO CONTAINERS. USE CLEAN NON-SPARKING TOOLS TO COLLECT ABSORBED MATERIAL.

LARGE SPILLS: DIKE AHEAD OF LIQUID SPILL FOR LATER DISPOSAL.

DO NOT DISCHARGE EFFLUENT CONTAINING THIS PRODUCT INTO LAKES, STREAMS, PONDS, ESTUARIES, OCEANS OR OTHER WATERS UNLESS IN ACCORDANCE WITH THE REQUIREMENTS OF A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT AND THE PERMITTING AUTHORITY HAS BEEN NOTIFIED IN WRITING PRIOR TO DISCHARGE. DO NOT DISCHARGE EFFLUENT CONTAINING THIS PRODUCT TO SEWER SYSTEMS WITHOUT PREVIOUSLY NOTIFYING THE LOCAL SEWAGE TREATMENT PLAN AUTHORITY. FOR GUIDANCE, CONTACT YOUR STATE WATER BOARD OR REGIONAL OFFICE OF THE EPA.

SECTION 7. HANDLING AND STORAGE

HANDLING PROCEDURES:

DO NOT GET THIS MATERIAL IN YOUR EYES, ON YOUR SKIN, OR ON YOUR CLOTHING. AVOID BREATHING VAPORS OR MISTS OF THIS PRODUCT. WASH THOROUGHLY AFTER HANDLING. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. AS WITH ALL CHEMICALS, GOOD INDUSTRIAL HYGIENE PRACTICES SHOULD BE FOLLOWED WHEN HANDLING THIS MATERIAL.

STORAGE PROCEDURES:

STORE IN A DRY PLACE NO LOWER IN TEMPERATURE THAN 50°F OR HIGHER THAN 120°F. KEEP THE CONTAINER TIGHTLY CLOSED AND DRY.

DO NOT HANDLE OR STORE NEAR AN OPEN FLAME, HEAT OR OTHER SOURCES OF IGNITION. PREVENT ELECTROSTATIC CHARGE BUILDUP BY USING COMMON BONDING AND GROUNDING TECHNIQUES,

DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

SECTION 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS: USE LOCAL EXHAUST VENTILATION.

PERSONAL PROTECTIVE EQUIPMENT: EYES/FACE
WEAR CHEMICAL GOGGLES; FACE SHIELD (IF SPLASHING IS POSSIBLE.)

PERSONAL PROTECTIVE EQUIPMENT: RESPIRATORY
WEAR A DUST/MIST FILTERING RESPIRATOR (MSHA/NIOSH APPROVED TC-21C) OR A NIOSH-APPROVED RESPIRATOR WITH AN N, R, P OR HE FILTER.

PROTECTIVE CLOTHING:
WORK CLOTHING SUFFICIENT TO PREVENT ALL SKIN CONTACT SHOULD BE WORN, SUCH AS COVERALLS AND LONG SLEEVES. USE IMPERVIOUS GLOVES.

GENERAL: EYE WASH FOUNTAIN AND EMERGENCY SHOWERS ARE RECOMMENDED.

_ETHANOL 64-17-5

AGH-OCCUPATIONAN EXPOSURE LIMITS – TWAs 1000 PPM TWA
NIOSH HEALTH STANDARDS – EXPOSURE LIMITS 1000 PPM TWA, 1900 MG/M3 TWA
NIOSH HEALTH STANDARDS – HEALTH EFFECTS AND PRECAUTIONS:
EYE, RESPIRATORY, AND SKIN IRRITATION; TERATOGENIC AND REPRODUCTIVE EFFECTS.
OSHA –FINAL PELS – TIME WEIGHTED AVERAGES, 000 PPM TWA; 1900 MG/M3 TWA

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

FLASH POINT: (33.9 C) 93 F PMCC
SPECIFIC GRAVITY: (0.925 G/ML) 7.7 LB/GAL
PERCENT VOLATILE 47 – 50% W/W
VAPOR PRESSURE: NOT DETERMINED
VAPOR DENSITY: ESTIMATED HEAVIER THAN AIR
VISCOSITY: 20 CPS @ 25C
EVAPORATION RATE: ESTIMATED SLOWER THAN ETHYL ETHER
POUR POINT: 12F
pH VALUE: 5.5 – 8 @ 10% AQUEOUS SOLUTION
APPEARANCE AND ODOR: CLEAR LIQUID

SECTION 10. STABILITY AND REACTIVITY

GENERAL: STABLE UNDER NORMAL CONDITIONS.

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

INCOMPATIBLE MATERIALS: THIS PRODUCT MAY REACT WITH STRONG OXIDIZING AGENTS, ANIONIC COMPOUNDS.

HAZARDOUS DECOMPOSITION: UPON DECOMPOSITION, THIS PRODUCT MAY YIELD OXIDES OF NITROGEN AND AMMONIA.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

SECTION 11. TOXICOLOGICAL INFORMATION

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

LD50 VALUE

ORAL LD50 (RAT) = >50 – 500 MG/KG

DERMAL LD50 (RABBIT) = >2000 < OR EQUAL TO 20,000 MG/KG

ETHANOL 64-17-5

NOT CLASSIFIED AS A HUMAN CARCINOGEN

DIDECYL DIMETHYL AMMONIUM CHLORIDE 7273-51-5

ORAL LD50 RATE: 48 MG/KG; ORAL LD50 Mouse: 268 mg/kg

ETHANOL 64-17-5

NIOSH SELECTED LD50s AND LC50s

INHALATION LC50 RAT: 20000 MG/KG/10H; INHALATION LC50 MOUSE; 39 G/M3/4H; ORAL LD50 RAT: 7060 MG/KG; ORAL LD50 MOUSE: 3450 mg/kg

SECTION 12. ECOLOGICAL INFORMATION

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:

UN/NA NUMBER:

HAZARD CLASS: N/A

PACKING GROUP:

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

SECTION 15. REGULATORY INFORMATION

DIDECYL DIMETHYL AMMONIUM CHLORIDE	50%	7173-51-5
WATER	36-40%	7732-18-5
ETHANOL	9-12%	64-17-5
_AMINES, BIS(C8-20- BRANCHED AND LINEAR ALKYL)METHYL	0-3%	108215-84-5

California Proposition 65 – Developmental Toxicity developmental toxicity, initial date
10/1/87 (when in alcoholic beverages)

Inventories

This product is considered a pesticide, and is therefore excluded from the US TSCA Regulations. There is no calculable reportable quantity (RQ) for this product.

SECTION 16. OTHER INFORMATION

NONE

Disclaimer:

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained therein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).