

SAFETY DATA SHEET

SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: 57.7°C (136°F) TCC (EEP)

CONDITIONS OF FLAMMABILITY: NA

FLAMMABLE LIMITS: LEL: 1.0% UEL: 10.0% AUTO IGNITION TEMP.: ND

OSHA CLASS: COMBUSTIBLE LIQUID, PACKING GROUP III

HAZARDOUS COMBUSTION PRODUCTS: CO, CO₂, ALDEHYDES, ACIDS

SENSITIVITY TO IMPACT: ND

SENSITIVITY TO STATIC DISCHARGE: ND

EXTINGUISHING MEDIA: IGNITION MAY GIVE RISE TO A CLASS B FIRE. IN CASE OF FIRE USE: WATER FOG, CARBON DIOXIDE, DRY CHEMICAL, ALCOHOL FOAM.

SPECIAL FIRE FIGHTING PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. WATER SPRAY IS USEFUL IN COOLING FIRE-EXPOSED VESSELS AND IN DISPERSING VAPORS.

UNUSUAL FIRE AND EXPLOSIVE HAZARDS: MAY GENERATE TOXIC OR IRRITATING COMBUSTION PRODUCTS. SUDDEN REACTION AND FIRE MAY RESULT IF PRODUCT IS MIXED WITH AN OXIDIZING AGENT. SOLVENT VAPORS MAY BE HEAVIER THAN AIR. UNDER CONDITIONS OF STAGNANT AIR, VAPORS MAY BUILD UP AND TRAVEL ALONG THE GROUND TO AN IGNITION SOURCE.

SECTION 6: ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: SHUT OFF SOURCES OF IGNITION. COVER SPILLS WITH ABSORBENT. PLACE IN METAL CONTAINERS FOR RECOVERY OR DISPOSAL. PREVENT ENTRY INTO SEWERS, STORM DRAINS, AND WATERWAYS.

SECTION 7: HANDLING AND STORAGE

GENERAL: STORE IN COOL, WELL VENTILATED AREAS. KEEP AWAY FROM HEAT AND OPEN FLAMES. AVOID PROLONGED INHALATION OF HEATED VAPORS OR MISTS. AVOID PROLONGED SKIN CONTACT. USE NON-SPARKING TOOLS AND GROUNDING CABLES WHEN TRANSFERRING. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY.

STORAGE: AVOID TEMPERATURE EXTREMES. STORE AWAY FROM EXCESSIVE HEAT, FROM SOURCES OF IGNITION AND FROM REACTIVE MATERIALS. MATERIAL CAN BURN; LIMIT INDOOR STORAGE TO AREAS EQUIPPED WITH AUTOMATIC SPRINKLERS. STORE OUT OF DIRECT SUNLIGHT IN A COOL PLACE. KEEP CONTAINERS TIGHTLY CLOSED. GROUND ALL METAL CONTAINERS DURING STORAGE AND HANDLING.

SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

| INGREDIENTS (CAS) | <u>EXPOSURE LIMITS (ppm)</u> | | | | |
|-------------------|------------------------------|------|-------|------|-------|
| | OSHA | | ACGIH | | OTHER |
| | TWA | STEL | TWA | STEL | |
| 136210-32-7 | NE | NE | NE | NE | |
| 000763-69-9 | 50 | 100 | 50 | 100 | |
| 045899-78-1 | NE | NE | NE | NE | |

LEGEND: (M) MAX. EXPOSURE LIMIT; (S) OCCUPATIONAL EXP. LIMIT; (R) SUPPLIERS REC. LIMIT, (+) PERCUTANEOUS RISK
NOTE 1: VALUES MEANINGFUL ONLY WHEN HARDENED PRODUCT IS ABRADED, GROUND, ETC.

ENGINEERING CONTROLS: EXHAUST VENTILATION SUFFICIENT TO KEEP AIRBORNE CONCENTRATION OF THE SOLVENTS BELOW THEIR RESPECTIVE TLV'S. EXHAUST AIR MAY NEED TO BE CLEANED BY SCRUBBERS OR FILTERS TO REDUCE ENVIRONMENTAL CONTAMINATION.

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SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION CON'T.

PROTECTIVE GLOVES: NITRILE RUBBER

EYE PROTECTION: SPLASH-PROOF GOGGLES OR CHEMICAL SAFETY GLASSES

RESPIRATORY PROTECTION: NONE REQUIRED IN ADEQUATELY VENTILATED AREAS. IF VAPOR CONCENTRATION EXCEEDS 20ppm FOR LONGER THAN 15 MINUTES, A NIOSH APPROVED RESPIRATOR FOR ORGANIC VAPORS IS RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT: LONG SLEEVED SHIRTS AND TROUSERS. EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE READILY ACCESSIBLE.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: >79.6°C (175°F)

SPECIFIC GRAVITY: 1.1-1.2

VAPOR PRESSURE: 3.7mmHg @ 20°C (68°F)

MELTING POINT: ND

VAPOR DENSITY: 2.4
(AIR = 1)

EVAPORATION RATE: >1
(BUTYL ACETATE = 1)

SOLUBILITY IN WATER: INSOLUBLE

pH: NA

COEFFICIENT of WATER/OIL DISTRIBUTION: ND

ODOR THRESHOLD: ND

APPEARANCE AND ODOR: CLEAR TO HAZY LIQUID, SWEET SOLVENT ODOR

% VOLATILES BY VOLUME: 19%

% SOLIDS BY WEIGHT: 78%

SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE;

CONDITIONS TO AVOID: NOT APPLICABLE (MATERIAL IS STABLE)

INCOMPATIBILITY (MATERIAL TO AVOID): OXIDIZING AGENTS (PERCHLORATES, NITRATES), STRONG ACIDS, HYPOCHLORITES, PEROXIDES.

HAZARDOUS DECOMPOSITION PRODUCTS: CO, CO₂

HAZARDOUS POLYMERIZATION (REACTIVITY): WILL NOT OCCUR.

SECTION 11: TOXICOLOGICAL INFORMATION

LIKELY ROUTES OF EXPOSURE: EYE CONTACT, SKIN CONTACT, INHALATION, INGESTION.

EYES:

ACUTE – LIQUID, AEROSOLS OR VAPORS ARE SEVERELY IRRITATING AND CAN CAUSE PAIN, TEARING, REDDENING AND SWELLING. IF LEFT UNTREATED, CORNEAL DAMAGE CAN OCCUR AND INJURY IS SLOW TO HEAL. HOWEVER, DAMAGE IS USUALLY REVERSIBLE

CHRONIC – PROLONGED VAPOR CONTACT MAY CAUSE CONJUNCTIVITIS

SKIN CONTACT:

ACUTE – REPEATED OR PROLONGED SKIN CONTACT CAN RESULT IN DRY, DEFATTED AND CRACKED SKIN CAUSING INCREASED SUSCEPTIBILITY TO INFECTION. IN ADDITION IRRITATION MAY DEVELOP INTO DERMATITIS. SOLVENTS CAN PENETRATE THE SKIN AND MAY CAUSE EFFECTS SIMILAR TO THOSE IDENTIFIED UNDER ACUTE INHALATION SYMPTOMS.

CHRONIC – MAY CAUSE EFFECTS SIMILAR TO THOSE IDENTIFIED UNDER CHRONIC INHALATION EFFECTS.

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SECTION 11: TOXICOLOGICAL INFORMATION CON'T.

SKIN ABSORPTION:

ACUTE – ND

CHRONIC – ND

INHALATION:

ACUTE – SOLVENT VAPORS ARE IRRITATING TO THE EYES NOSE AND THROAT. SYMPTOMS OF IRRITATION MAY INCLUDE RED, ITCHY EYES, DRYNESS OF THE THROAT AND A FEELING OF TIGHTNESS IN THE CHEST. OTHER POSSIBLE SYMPTOMS OF OVEREXPOSURE INCLUDE: HEADACHE, DIZZINESS, NAUSEA, NARCOSIS FATIGUE AND LOSS OF APPETITE.

CHRONIC – CHRONIC EXPOSURE TO ORGANIC SOLVENTS HAS BEEN ASSOCIATED WITH VARIOUS NEUROTOXIC EFFECTS INCLUDING PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. SYMPTOMS INCLUDE LOSS OF MEMORY, LOSS OF INTELLECTUAL ABILITY AND LOSS OF COORDINATION.

INGESTION:

ACUTE – CAN RESULT IN IRRITATION OF THE DIGESTIVE TRACT. SYMPTOMS CAN INCLUDE SORE THROAT ABDOMINAL PAIN NAUSEA, VOMITING AND DIARRHEA. VOMITING MAY CAUSE ASPIRATION OF SOLVENT RESULTING IN CHEMICAL PNEUMONITIS

CHRONIC – ND

CONDITIONS AGGRAVATED BY EXPOSURE: SKIN DISORDERS AND ALLERGIES.

ACUTE TOXICITY: NO DATA ON THE PRODUCT ITSELF

ACUTE ORAL TOXICITY- COMPONENTS

| | | |
|------------------------------------|-------------------|--------------|
| ASPARTIC ESTER | LD50: >5000 mg/kg | SPECIES: RAT |
| ETHYL-3-ETHOXYPROPIONATE | LD50: >5000 mg/kg | SPECIES: RAT |
| MODIFIED CARBONATE BIS-OXAZOLIDINE | LD50: >2000 mg/kg | SPECIES: RAT |

ACUTE DERMAL TOXICITY- COMPONENTS

| | | |
|------------------------------------|-------------------|--------------|
| ASPARTIC ESTER | LD50: >2000 mg/kg | SPECIES: RAT |
| ETHYL-3-ETHOXYPROPIONATE | LD50: 4080 mg/kg | SPECIES: RAT |
| MODIFIED CARBONATE BIS-OXAZOLIDINE | LD50: >2000 mg/kg | SPECIES: RAT |

ACUTE INHALATION TOXICITY- COMPONENTS OECD TEST GUIDELINE 403

| | |
|------------------------------------|------------------|
| ASPARTIC ESTER | LC50: 4.224 mg/l |
| ETHYL-3-ETHOXYPROPIONATE | LC50: >998 ppm |
| MODIFIED CARBONATE BIS-OXAZOLIDINE | ND |

SKIN CORROSION/IRRITATION

SLIGHTLY TO MODERATELY IRRITATING

SERIOUS EYE DAMAGE/EYE IRRITATION

SLIGHTLY TO MODERATELY IRRITATING

SENSITIZATION

DERMAL: POSITIVE (GUINEA PIG, MAGNUSSON/KLINGMAN (MAXIMIZATION TEST))

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)

CATEGORY 3 (IRRITATING TO RESPIRATORY SYSTEM)

SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE)

ND

CARCINOGENIC DATA: NTP: NONE

TERATOGENICITY: NO

EMBRYOTOXICITY: NO

OSHA: NONE

IARC: NONE

MUTAGENICITY: NO

SYNERGISTIC MATERIAL: NO

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SECTION 12: ECOLOGICAL INFORMATION

TOXICITY

AQUATIC TOXICITY: NO DATA ON THE PRODUCT ITSELF. BASED ON THE COMPONENTS THE PRODUCT IS ACUTELY HARMFUL FOR AQUATIC ORGANISMS.

ACUTE TOXICITY TO FISH- COMPONENTS

| | | |
|------------------------------------|--------------------------|-------------------------|
| ASPARTIC ESTER | LC50 (2 HRS): 7081 mg/l | SPECIES: FATHEAD MINNOW |
| ETHYL-3-ETHOXYPROPIONATE | LC50 (96 HRS): 55.3 mg/l | SPECIES: FATHEAD MINNOW |
| MODIFIED CARBONATE BIS-OXAZOLIDINE | LC50 (96 HRS): 9.22 mg/l | SPECIES: FATHEAD MINNOW |

ACUTE TOXICITY TO AQUATIC INVERTEBRATES: COMPONENTS

| | | |
|------------------------------------|---------------------------|------------------------|
| ASPARTIC ESTER | EC50 (24 HRS): >100 mg/l | SPECIES: DAPHNIA MAGNA |
| ETHYL-3-ETHOXYPROPIONATE | EC50 (48 HRS): 479.7 mg/l | SPECIES: DAPHNIA MAGNA |
| MODIFIED CARBONATE BIS-OXAZOLIDINE | EC50 (48 HRS): 6.14 mg/l | SPECIES: DAPHNIA MAGNA |

ACUTE TOXICITY TO ALGAE/AQUATIC PLANTS: COMPONENTS

| | | |
|------------------------------------|---------------------------|----------------------|
| ASPARTIC ESTER | ND | |
| ETHYL-3-ETHOXYPROPIONATE | EC50 (72 HRS): 114.9 mg/l | SPECIES: GREEN ALGAE |
| MODIFIED CARBONATE BIS-OXAZOLIDINE | ND | |

TOXICITY TO BACTERIA: COMPONENTS

| | | |
|------------------------------------|------------------|------------------|
| ASPARTIC ESTER | ND | |
| ETHYL-3-ETHOXYPROPIONATE | EC50: > 5000mg/l | ACTIVATED SLUDGE |
| MODIFIED CARBONATE BIS-OXAZOLIDINE | ND | |

CHRONIC AQUATIC TOXICITY

CHRONIC TOXICITY TO AQUATIC INVERTEBRATES

LONG LASTING ADVERSE EFFECTS TO AQUATIC ORGANISMS

PERSISTENCE AND DEGRADABILITY

BIODEGRADABILITY: NOT READILY BIODEGRADABLE (BY OECD CRITERIA)

BIOACCUMULATIVE POTENTIAL

BIOACCUMULATION: ND

MOBILITY IN SOIL: ND

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: INCINERATION IS PREFERRED. THIS PRODUCT SHOULD NOT BE ALLOWED TO ENTER DRAINS, WATER COURSES OR THE SOIL. PLACE IN AN APPROPRIATE DISPOSAL FACILITY IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS.

SECTION 14: TRANSPORT INFORMATION

DOT PROPER SHIPPING NAME: NON REGULATED. COMBUSTIBLE LIQUID NOT DOT REGULATED IN CONTAINERS OF < 119 GALLONS

HAZARD LABEL: COMBUSTIBLE LIQUID

HAZARD PLACARD: NA

IMO SHIPPING DATA: UN1866, RESIN SOLUTION, FLAMMABLE (CONTAINS ETHYL-3-ETHOXYPROPIONATE), 3, PG III

ICAO/IATA SHIPPING DATA: UN1866, RESIN SOLUTION, FLAMMABLE (CONTAINS ETHYL-3-ETHOXYPROPIONATE), 3, PG III

PASSENGER AIR MAX QUANTITY: 5L

PASSENGER PACKING INSTRUCTION: 353

CARGO AIR- MAX QUANTITY: 60L

CARGO AIR INSTRUCTION NUMBER: 364

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SECTION 15: REGULATORY INFORMATION

VOC: COMPONENT: 85 grams/Liter **AS APPLIED:** 232 grams/Liter (PART OF MULTI-COMPONENT SYSTEM)

TSCA (TOXIC SUBSTANCE CONTROL ACT): ALL COMPONENTS ARE LISTED IN THE TSCA CHEMICAL SUBSTANCE INVENTORY.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION and LIABILITY ACT): NA

SARA TITLE III

SECTION 312 HAZARD CLASS: IMMEDIATE (ACUTE) HEALTH HAZARD, DELAYED HEALTH HAZARD; FIRE HAZARD.

SECTION 313 LISTED INGREDIENTS: NONE

CALIFORNIA PROPOSITION 65: The below list of compounds is known to the State of California to cause cancer, birth defects or other reproductive harm: NONE

SECTION 16: OTHER INFORMATION

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HAZARD RATING

HMS: **HEALTH 2** **FLAMMABILITY 2** **REACTIVITY 1**

LEGEND

ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

STEL: SHORT TERM EXPOSURE LIMIT

TWA: TIME WEIGHTED AVERAGE

PEL: PERMISSIBLE EXPOSURE LIMIT

TLV: THRESHOLD LIMIT VALUE

NA: NOT APPLICABLE

NE: NOT ESTABLISHED

ND: NO DATA

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