

SAFETY DATA SHEET

DURA-SEAL HG 100

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

MANUFACTURER'S NAME / ADDRESS

DURACORP
2664 VISTA PACIFIC
OCEANSIDE CA 92056

TRADE NAME: DURA-SEAL HG 100
COLOR: CLEAR
MAIN USE: SPECIALTY SEALER

EMERGENCY TELEPHONE NUMBER: (800) 424-9300 (CHEMTREC)

SECTION 2: HAZARDS IDENTIFICATION

GLOBALLY HARMONIZED SYSTEM (GHS)

CLASSIFICATION:

FLAMMABLE LIQUIDS: CATEGORY 2

EYE DAMAGE: CATEGORY 2A

SKIN IRRITATION: CATEGORY 2

ACUTE AQUATIC TOXICITY: CATEGORY 2

CHRONIC AQUATIC TOXICITY: CATEGORY 2

GHS LABEL ELEMENTS

HAZARD PICTOGRAMS



SIGNAL WORD: DANGER!

HAZARD STATEMENTS

H225: HIGHLY FLAMMABLE LIQUID AND VAPOR

H319: CAUSES SERIOUS EYE IRRITATION

H315: CAUSES SKIN IRRITATION

H335: MAY CAUSE RESPIRATORY IRRITATION

H411: TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

PRECAUTIONARY STATEMENTS:

PREVENTION

P210: KEEP AWAY FROM HEAT, SPARKS, OPEN FLAMES, AND HOT SURFACES. NO SMOKING

P233: KEEP CONTAINER TIGHTLY CLOSED

P240: GROUND/BOND CONTAINER AND RECEIVING EQUIPMENT

P241: USE EXPLOSION-PROOF ELECTRICAL, VENTILATING AND LIGHTING EQUIPMENT

P242: USE ONLY NON-SPARKING TOOLS

P243: TAKE PRECAUTIONARY MEASURES AGAINST STATIC DISCHARGE

P261 AVOID BREATHING MIST/VAPORS/SPRAY

P264: WASH HANDS AND SKIN CONTACT AREAS THOROUGHLY AFTER HANDLING

P280: WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECTION

RESPONSE

P303+P361+353: **IF ON SKIN (OR HAIR):** REMOVE/TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/SHOWER

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| SECTION 2: HAZARDS IDENTIFICATION CON'T. |
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P305+P351+P338: **IF IN EYES:** RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO SO. CONTINUE RINSING.

P337+P313: IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION

P304+P340: **IF INHALED:** IF BREATHING IS DIFFICULT REMOVE TO AND MAKE COMFORTABLE FOR BREATHING.

P332+P313: IF SKIN IRRITATION OCCURS: GET MEDICAL ATTENTION

P370+P378: IN CASE OF FIRE: USE DRY CHEMICAL, CARBON DIOXIDE (CO₂), FOAM, OR WATER SPRAY (FOR LARGE FIRES) TO EXTINGUISH

DISPOSAL

P501: DISPOSE OF CONTENTS/CONTAINER TO AN APPROVED WASTE DISPOSAL PLANT

OTHER HAZARDS

NO DATA AVAILABLE

EMERGENCY OVERVIEW:

DANGER!
 HARMFUL OR FATAL IF SWALLOWED
 HARMFUL IF INHALED
 CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION
 CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING
 ORGANS: BLOOD, KIDNEYS, LIVER, GASTROINTESTINAL TRACT,
 RESPIRATORY TRACT, SKIN, NERVOUS SYSTEM, EYE, LENS OR CORNEA
 FLAMMABLE LIQUID AND VAPOR
 VAPOR MAY CAUSE FLASH FIRE
 MAY BE HARMFUL IF ABSORBED THROUGH SKIN

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| SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS |
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| <u>HAZARDOUS INGREDIENTS</u> | <u>Wt. %</u> | <u>CAS Number</u> |
|------------------------------|--------------|-------------------|
| PARACHLOROBENZOTRIFLOURIDE | 60-100 | 000098-56-6 |
| ACETONE | 1-5 | 000067-64-1 |
| ETHYL-3-ETHOXYPROPIONATE | 1-5 | 000763-69-9 |

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| SECTION 4: FIRST AID MEASURES |
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GENERAL: REMOVE PERSON FROM AFFECTED AREA AND MAKE COMFORTABLE. TREAT SYMPTOMATICALLY.

EYES: FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.

SKIN: REMOVE PRODUCT AND FLUSH AFFECTED AREA WITH WATER FOR 15 MINUTES. IF IRRITATION PERSISTS GET MEDICAL ATTENTION.

INHALATION: MOVE TO FRESH AIR. GIVE ASSISTED RESPIRATION IF BREATHING HAS STOPPED OR IS LABORED (CALL A PHYSICIAN).

INGESTION: GIVE 3 – 4 GLASSES OF WATER OR MILK IF PERSON CONSCIOUS. **DO NOT INDUCE VOMITING!** OBTAIN MEDICAL CARE AND TREATMENT.

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SECTION 5: FIRE FIGHTING MEASURES

FLASH POINT: -20°C (-4°F) TCC (ACETONE) **CONDITIONS OF FLAMMABILITY:** NA

FLAMMABLE LIMITS: (ACETONE) **LEL:** 2.6% **UEL:** 12.8%

OSHA CLASS: FLAMMABLE LIQUID, PACKING GROUP II **AUTO IGNITION TEMP:** 465°C (869°F)

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> | | | | OTHER |
|-------------------|------------------------------|------|-------|------|-------|
| | OSHA | | ACGIH | | |
| | TWA | STEL | TWA | STEL | |
| 000098-56-6 | NE | NE | NE | NE | |
| 000067-64-1 | 750 | NE | 750 | NE | |
| 000763-69-9 | 50 | 100 | 50 | 100 | |

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. |
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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.

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| SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES |
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BOILING POINT: 56.2°C (133.2°F) (ACETONE)

SPECIFIC GRAVITY: 1.10-1.20

VAPOR PRESSURE: 180mm Hg (ACETONE)

MELTING POINT: ND

VAPOR DENSITY: 2.0
(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: 80%

%SOLIDS BY WEIGHT: 22%

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| SECTION 10: STABILITY AND REACTIVITY |
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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.

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| SECTION 11: TOXICOLOGICAL INFORMATION |
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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

| | | |
|----------------------------|-----------------------------------|--------------|
| PARACHLOROBENZOTRIFLOURIDE | LD50: 13000 mg/kg | SPECIES: RAT |
| ACETONE | NOT CLASSIFIED FOR ACUTE TOXICITY | |
| ETHYL-3-ETHOXYPROPIONATE | LD50: >5000 mg/kg | SPECIES: RAT |

ACUTE DERMAL TOXICITY- COMPONENTS

| | | |
|----------------------------|-----------------------------------|-----------------|
| PARACHLOROBENZOTRIFLOURIDE | LD50: 2700 mg/kg | SPECIES: RABBIT |
| ACETONE | NOT CLASSIFIED FOR ACUTE TOXICITY | |
| ETHYL-3-ETHOXYPROPIONATE | LD50: 4080 mg/kg | SPECIES: RAT |

ACUTE INHALATION TOXICITY- COMPONENTS

| | |
|----------------------------|----------------|
| PARACHLOROBENZOTRIFLOURIDE | LC50: 4470 ppm |
| ACETONE | LC50: 76 mg/l |
| ETHYL-3-ETHOXYPROPIONATE | LC50: >998 ppm |

OECD TEST GUIDLINE 403

SKIN CORROSION/IRRITATION

SLIGHTLY TO MODERATELY IRRITATING

SERIOUS EYE DAMAGE/EYE IRRITATION

SLIGHTLY TO MODERATELY IRRITATING

SENSITIZATION

DERMAL: NON-SENSITIZER (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

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| SECTION 11: TOXICOLOGICAL INFORMATION CON'T. |
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| CARCINOGENIC DATA: NTP: NONE | OSHA: NONE | IARC: NONE |
| TERATOGENICITY: NO | | MUTAGENICITY: NO |
| EMBRYOTOXICITY: NO | | SYNERGISTIC MATERIAL: NO |

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| SECTION 12: ECOLOGICAL INFORMATION |
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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

| | | |
|----------------------------|--------------------------|-------------------------|
| PARACHLOROBENZOTRIFLOURIDE | LC50 (96 HRS): 5.6 mg/l | SPECIES: FATHEAD MINNOW |
| ACETONE | LC50 (2 HRS): 7081 mg/l | SPECIES: FATHEAD MINNOW |
| ETHYL-3-ETHOXYPROPIONATE | LC50 (96 HRS): 55.3 mg/l | SPECIES: FATHEAD MINNOW |

ACUTE TOXICITY TO AQUATIC INVERTEBRATES: COMPONENTS

| | | |
|----------------------------|---------------------------|------------------------|
| PARACHLOROBENZOTRIFLOURIDE | EC50 (48 HRS): 15 mg/l | SPECIES: DAPHNIA MAGNA |
| ACETONE | EC50 (24 HRS): >100 mg/l | SPECIES: DAPHNIA MAGNA |
| ETHYL-3-ETHOXYPROPIONATE | EC50 (48 HRS): 479.7 mg/l | SPECIES: DAPHNIA MAGNA |

ACUTE TOXICITY TO ALGAE/AQUATIC PLANTS: COMPONENTS

| | | |
|----------------------------|---------------------------|----------------------|
| PARACHLOROBENZOTRIFLOURIDE | ND | |
| ACETONE | ND | |
| ETHYL-3-ETHOXYPROPIONATE | EC50 (72 HRS): 114.9 mg/l | SPECIES: GREEN ALGAE |

TOXICITY TO BACTERIA: COMPONENTS

| | | |
|----------------------------|------------------|------------------|
| PARACHLOROBENZOTRIFLOURIDE | ND | |
| ACETONE | ND | |
| ETHYL-3-ETHOXYPROPIONATE | EC50: > 5000mg/l | ACTIVATED SLUDGE |

CHRONIC AQUATIC TOXICITY

CHRONIC TOXICITY TO AQUATIC INVERTEBRATES

LONG LASTING ADVERSE EFFECTS TO AQUATIC ORGANISMS

PERSISTANCE AND DEGRADABILITY

BIODEGRADABILITY: POORLY BIODEGRADABLE. THE PRODUCT IS UNSTABLE IN WATER

BIOACCUMULATIVE POTENTIAL

BIOACCUMULATION: ND

MOBILITY IN SOIL

ND

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| SECTION 13: DISPOSAL CONSIDERATIONS |
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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.

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SECTION 14: TRANSPORT INFORMATION

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| DOT PROPER SHIPPING NAME: PAINT | HAZARD CLASS: 3 |
| PACKING GROUP: II | DOT PRODUCT RQ LBS (KGS): 800 LBS (362.9 KGS) |
| HAZARD LABEL: FLAMMABLE LIQUID | HAZARD PLACARD: FLAMMABLE LIQUID |
| IMO SHIPPING DATA: UN1263, PAINT, 3, PG II | |
| ICAO/IATA SHIPPING DATA: UN1263, PAINT, 3, PG II | |
| PASSENGER AIR MAX QUANTITY: 5L | PASSENGER PACKING INSTRUCTION: 353 |
| CARGO AIR- MAX QUANTITY: 60L | CARGO AIR INSTRUCTION NUMBER: 364 |

SECTION 15: REGULATORY INFORMATION

MATERIAL VOC = 37 gram / liter **COATING VOC**= 100 gram/liter

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

INITIAL ISSUE DATE: MAY 27, 2015 **REVISION DATE:** **PREPARED BY:** J.W. ESSIG

HAZARD RATING

HMIS: **HEALTH** **2** **FLAMMABILITY** **1** **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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