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SAFETY DATA SHEET

SECTION 1. CHEMICAL IDENTIFICATION

| | |
|---------------------------------|---|
| CATALOG #: | 00504 |
| NAME: | Dichloroacetic acid |
| SYNONYMS: | Dichloroethanoic acid |
| 24 HOUR EMERGENCY TELEPHONE: | (800) 535-5053(USA) 352-323-3500 (INTERNATIONAL) |
| TO REQUEST AN MSDS: | (800) 869-9290 |
| CUSTOMER SERVICE: | (630) 766-2112 |

SECTION 2. HAZARDS IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS CLASSIFICATION IN ACCORDANCE WITH 29 CFR 1910 (OSHA HCS)

CORROSIVE TO METALS (CATEGORY 1), H290
 ACUTE TOXICITY, DERMAL (CATEGORY 3), H311
 SKIN CORROSION (CATEGORY 1A), H314
 SERIOUS EYE DAMAGE (CATEGORY 1), H318
 CARCINOGENICITY (CATEGORY 2), H351
 REPRODUCTIVE TOXICITY (CATEGORY 1B), H360
 EFFECTS ON OR VIA LACTATION, H362
 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE, ORAL (CATEGORY 2),
 BRAIN, LIVER, TESTES, H373
 ACUTE AQUATIC TOXICITY (CATEGORY 1), H400

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

GHS LABEL ELEMENTS, INCLUDING PRECAUTIONARY STATEMENTS
PICTOGRAM



SIGNAL WORD DANGER

HAZARD STATEMENT(S)

| | |
|------|--|
| H290 | MAY BE CORROSIVE TO METALS. |
| H311 | TOXIC IN CONTACT WITH SKIN. |
| H314 | CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. |
| H351 | SUSPECTED OF CAUSING CANCER. |
| H360 | MAY DAMAGE FERTILITY OR THE UNBORN CHILD. |
| H362 | MAY CAUSE HARM TO BREAST-FED CHILDREN. |
| H373 | MAY CAUSE DAMAGE TO ORGANS (BRAIN, LIVER, TESTES) THROUGH PROLONGED OR REPEATED EXPOSURE IF SWALLOWED. |
| H400 | VERY TOXIC TO AQUATIC LIFE. |

PRECAUTIONARY STATEMENT(S)

| | |
|--------------------|---|
| P201 | OBTAIN SPECIAL INSTRUCTIONS BEFORE USE. |
| P202 | DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD. |
| P234 | KEEP ONLY IN ORIGINAL CONTAINER. |
| P260 | DO NOT BREATHE MIST OR VAPORS. |
| P263 | AVOID CONTACT DURING PREGNANCY/ WHILE NURSING. |
| P264 | WASH SKIN THOROUGHLY AFTER HANDLING. |
| P270 | DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. |
| P273 | AVOID RELEASE TO THE ENVIRONMENT. |
| P280 | WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECTION. |
| P301 + P330 + P331 | IF SWALLOWED: RINSE MOUTH. DO NOT INDUCE VOMITING. |
| P303 + P361 + P353 | IF ON SKIN (OR HAIR): REMOVE/ TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/ SHOWER. |
| P304 + P340 + P310 | IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POSITION COMFORTABLE FOR BREATHING. IMMEDIATELY CALL A POISON CENTER OR DOCTOR/ PHYSICIAN. |

| | |
|--|---|
| 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. |
| P308 + P313 | IF EXPOSED OR CONCERNED: GET MEDICAL ADVICE/ ATTENTION. |
| P362 | TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE. |
| P390 | ABSORB SPILLAGE TO PREVENT MATERIAL DAMAGE. |
| P391 | COLLECT SPILLAGE. |
| P405 | STORE LOCKED UP. |
| P406 | STORE IN CORROSIVE RESISTANT CONTAINER WITH A RESISTANT INNER LINER. |
| P501 | DISPOSE OF CONTENTS/ CONTAINER TO AN APPROVED WASTE DISPOSAL PLANT. |
| HAZARDS NOT OTHERWISE CLASSIFIED (HNOC) OR NOT COVERED BY GHS | RAPIDLY ABSORBED THROUGH SKIN. |

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| | |
|---------|--|
| MF: | C ₂ H ₂ Cl ₂ O ₂ |
| MW: | 128.94 |
| CAS-NO. | 79-43-6 |
| PURITY: | ≥ 99% (Assay by titration) |

HAZARDOUS COMPONENTS

| COMPONENT | CLASSIFICATION | CONCENTRATION |
|----------------------------|--|---------------|
| Dichloroacetic acid | | |
| | MET. CORR. 1; ACUTE TOX. 3; SKIN CORR. 1A; EYE DAM. 1; CARC. 2; REPR. 1B; LACT. ; STOT RE 2; AQUATIC ACUTE 1; H290, H311, H314, H318, H351, H360, H362, H373, H400 | ≤ 100 % |

FOR THE FULL TEXT OF THE H-STATEMENTS MENTIONED IN THIS SECTION, SEE SECTION 16.

SECTION 4. FIRST-AID MEASURES

DESCRIPTION OF FIRST AID MEASURES

| | |
|---|--|
| GENERAL ADVICE | FIRST AIDERS NEED TO PROTECT THEMSELVES. SHOW THIS MATERIAL SAFETY DATA SHEET TO THE DOCTOR IN ATTENDANCE. |
| IF INHALED | AFTER INHALATION: FRESH AIR. CALL IN PHYSICIAN. |
| IN CASE OF SKIN CONTACT | IN CASE OF SKIN CONTACT: TAKE OFF IMMEDIATELY ALL CONTAMINATED CLOTHING. RINSE SKIN WITH WATER/ SHOWER. CALL A PHYSICIAN IMMEDIATELY. |
| IN CASE OF EYE CONTACT | AFTER EYE CONTACT: RINSE OUT WITH PLENTY OF WATER. IMMEDIATELY CALL IN OPHTHALMOLOGIST. REMOVE CONTACT LENSES. |
| IF SWALLOWED | AFTER SWALLOWING: MAKE VICTIM DRINK WATER (TWO GLASSES AT MOST), AVOID VOMITING (RISK OF PERFORATION). PULMONARY FAILURE POSSIBLE AFTER ASPIRATION OF VOMIT. CALL A PHYSICIAN IMMEDIATELY. DO NOT ATTEMPT TO NEUTRALISE. |
| MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED | THE MOST IMPORTANT KNOWN SYMPTOMS AND EFFECTS ARE DESCRIBED IN THE LABELLING (SEE SECTION 2.2) AND/OR IN SECTION 11 |
| INDICATION OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED | NO DATA AVAILABLE |

SECTION 5. FIRE AND EXPLOSION DATA

EXTINGUISHING MEDIA

| | |
|--|---|
| SUITABLE EXTINGUISHING MEDIA | SUITABLE EXTINGUISHING MEDIA WATER FOAM CARBON DIOXIDE (CO ₂) DRY POWDER |
| | UNSUITABLE EXTINGUISHING MEDIA FOR THIS SUBSTANCE/MIXTURE NO LIMITATIONS OF EXTINGUISHING AGENTS ARE GIVEN. |
| SPECIAL HAZARDS ARISING FROM THE SUBSTANCE OR MIXTURE | CARBON OXIDES HYDROGEN CHLORIDE GAS COMBUSTIBLE. VAPORS ARE HEAVIER THAN AIR AND MAY SPREAD ALONG FLOORS. FORMS EXPLOSIVE MIXTURES WITH AIR ON INTENSE HEATING. |

DEVELOPMENT OF HAZARDOUS COMBUSTION GASES OR VAPOURS POSSIBLE IN THE EVENT OF FIRE.

**ADVICE FOR
FIREFIGHTERS**

STAY IN DANGER AREA ONLY WITH SELF-CONTAINED BREATHING APPARATUS. PREVENT SKIN CONTACT BY KEEPING A SAFE DISTANCE OR BY WEARING SUITABLE PROTECTIVE CLOTHING.

FURTHER INFORMATION

SUPPRESS (KNOCK DOWN) GASES/VAPORS/MISTS WITH A WATER SPRAY JET. PREVENT FIRE EXTINGUISHING WATER FROM CONTAMINATING SURFACE WATER OR THE GROUND WATER SYSTEM.

SECTION 6. ACCIDENTAL RELEASE MEASURES

**PERSONAL
PRECAUTIONS,
PROTECTIVE
EQUIPMENT AND
EMERGENCY
PROCEDURES**

ADVICE FOR NON-EMERGENCY PERSONNEL: DO NOT BREATHE VAPORS, AEROSOLS. AVOID SUBSTANCE CONTACT. ENSURE ADEQUATE VENTILATION. EVACUATE THE DANGER AREA, OBSERVE EMERGENCY PROCEDURES, CONSULT AN EXPERT. FOR PERSONAL PROTECTION SEE SECTION 8.

**ENVIRONMENTAL
PRECAUTIONS**

DO NOT LET PRODUCT ENTER DRAINS.

**METHODS AND
MATERIALS FOR
CONTAINMENT AND
CLEANING UP**

COVER DRAINS. COLLECT, BIND, AND PUMP OFF SPILLS. OBSERVE POSSIBLE MATERIAL RESTRICTIONS (SEE SECTIONS 7 AND 10). TAKE UP CAREFULLY WITH LIQUID-ABSORBENT MATERIAL (E.G. CHEMIZORB). DISPOSE OF PROPERLY. CLEAN UP AFFECTED AREA.

**REFERENCE TO OTHER
SECTIONS**

FOR DISPOSAL SEE SECTION 13.

SECTION 7. HANDLING AND STORAGE

**PRECAUTIONS FOR SAFE
HANDLING**

WORK UNDER HOOD. DO NOT INHALE SUBSTANCE/MIXTURE. AVOID GENERATION OF VAPOURS/AEROSOLS.

IMMEDIATELY CHANGE CONTAMINATED CLOTHING. APPLY PREVENTIVE SKIN PROTECTION. WASH HANDS AND FACE AFTER WORKING WITH SUBSTANCE. FOR PRECAUTIONS SEE SECTION 2.2.

**CONDITIONS FOR SAFE
STORAGE, INCLUDING**

NO METAL CONTAINERS. TIGHTLY CLOSED. KEEP IN A WELL-VENTILATED PLACE. KEEP LOCKED UP OR IN AN

ANY INCOMPATIBILITIES AREA ACCESSIBLE ONLY TO QUALIFIED OR AUTHORIZED PERSONS.
HANDLE AND STORE UNDER INERT GAS.

Store at RT

STORAGE CLASS (TRGS 510): 6.1C: COMBUSTIBLE,
ACUTE TOXIC CAT.3 / TOXIC COMPOUNDS OR
COMPOUNDS WHICH CAUSING CHRONIC EFFECTS

SPECIFIC END USE(S) APART FROM THE USES MENTIONED IN SECTION 1.2
NO OTHER SPECIFIC USES ARE STIPULATED

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CONTROL PARAMETERS

INGREDIENTS WITH WORKPLACE CONTROL PARAMETERS

| COMPONENT | CAS-NO. | VALUE | CONTROL PARAMETERS | BASIS |
|---------------------|---------|--|--------------------|---|
| Dichloroacetic acid | 79-43-6 | TWA | 0.5 PPM | USA. ACGIH THRESHOLD LIMIT VALUES (TLV) |
| | REMARKS | CONFIRMED ANIMAL CARCINOGEN WITH UNKNOWN RELEVANCE TO HUMANS DANGER OF CUTANEOUS ABSORPTION | | |

EXPOSURE CONTROLS

APPROPRIATE ENGINEERING CONTROLS IMMEDIATELY CHANGE CONTAMINATED CLOTHING.
APPLY PREVENTIVE SKIN PROTECTION. WASH HANDS AND FACE AFTER WORKING WITH SUBSTANCE.

PERSONAL PROTECTIVE EQUIPMENT

EYE/FACE PROTECTION USE EQUIPMENT FOR EYE PROTECTION TESTED AND APPROVED UNDER APPROPRIATE GOVERNMENT STANDARDS SUCH AS NIOSH (US) OR EN 166(EU).
TIGHTLY FITTING SAFETY GOGGLES

SKIN PROTECTION

THIS RECOMMENDATION APPLIES ONLY TO THE PRODUCT STATED IN THE SAFETY DATA SHEET, SUPPLIED BY US AND FOR THE DESIGNATED USE. WHEN DISSOLVING IN OR MIXING WITH OTHER SUBSTANCES AND UNDER CONDITIONS DEVIATING FROM THOSE STATED IN EN 16523-1 PLEASE CONTACT THE SUPPLIER OF CE-APPROVED GLOVES

FULL CONTACT

MATERIAL: VITON

MINIMUM LAYER THICKNESS: 0.7 MM

BREAK THROUGH TIME: 480 MIN

MATERIAL TESTED: VITOJECT (KCL 890, SIZE M)

THIS RECOMMENDATION APPLIES ONLY TO THE PRODUCT STATED IN THE SAFETY DATA SHEET, SUPPLIED BY US AND FOR THE DESIGNATED USE. WHEN DISSOLVING IN OR MIXING WITH OTHER SUBSTANCES AND UNDER CONDITIONS DEVIATING FROM THOSE STATED IN EN 16523-1 PLEASE CONTACT THE SUPPLIER OF CE-APPROVED GLOVES.

SPLASH CONTACT

MATERIAL: CHLOROPRENE

MINIMUM LAYER THICKNESS: 0.65 MM

BREAK THROUGH TIME: 120 MIN

MATERIAL TESTED: KCL 720 CAMAPREN

BODY PROTECTION

COMPLETE SUIT PROTECTING AGAINST CHEMICALS, THE TYPE OF PROTECTIVE EQUIPMENT MUST BE SELECTED ACCORDING TO THE CONCENTRATION AND AMOUNT OF THE DANGEROUS SUBSTANCE AT THE SPECIFIC WORKPLACE.

RESPIRATORY PROTECTION

RECOMMENDED FILTER TYPE: FILTER A (ACC. TO DIN 3181) FOR VAPOURS OF ORGANIC COMPOUNDS THE ENTREPRENEUR HAS TO ENSURE THAT MAINTENANCE, CLEANING AND TESTING OF RESPIRATORY PROTECTIVE DEVICES ARE CARRIED OUT ACCORDING TO THE INSTRUCTIONS OF THE PRODUCER.

THESE MEASURES HAVE TO BE PROPERLY DOCUMENTED.

REQUIRED WHEN VAPOURS/AEROSOLS ARE GENERATED. OUR RECOMMENDATIONS ON FILTERING RESPIRATORY PROTECTION ARE BASED ON THE FOLLOWING STANDARDS: DIN EN 143, DIN 14387 AND OTHER ACCOMPANYING STANDARDS RELATING TO THE USED RESPIRATORY PROTECTION SYSTEM.

CONTROL OF ENVIRONMENTAL EXPOSURE

DO NOT LET PRODUCT ENTER DRAINS.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

INFORMATION ON BASIC PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|---|
| APPEARANCE | Clear colorless to light yellow liquid |
| ODOUR | PUNGENT |
| ODOUR THRESHOLD | NO DATA AVAILABLE |
| PH | 1.2 AT 129 G/L AT 20 °C |
| MELTING POINT/FREEZING POINT | |
| INITIAL BOILING POINT AND BOILING RANGE | |
| FLASH POINT | |
| EVAPORATION RATE | NO DATA AVAILABLE |
| FLAMMABILITY (SOLID, GAS) | NO DATA AVAILABLE |
| UPPER/LOWER FLAMMABILITY OR EXPLOSIVE LIMITS | NO DATA AVAILABLE |
| VAPOUR PRESSURE | 0.19 HPA AT 20 °C |
| VAPOUR DENSITY | 4.45 - (AIR = 1.0) |
| RELATIVE DENSITY | 1.563 g/mL at 25 °C |
| WATER SOLUBILITY | SOLUBLE |
| PARTITION COEFFICIENT: N-OCTANOL/WATER | LOG POW: 0.92 - (LIT.), BIOACCUMULATION IS NOT EXPECTED. |
| AUTO-IGNITION TEMPERATURE | NO DATA AVAILABLE |
| DECOMPOSITION TEMPERATURE | NO DATA AVAILABLE |
| VISCOSITY | 4.696 MM ² /S AT 20 °C - 2.716 MM ² /S AT 40 °C |
| EXPLOSIVE PROPERTIES | NO DATA AVAILABLE |
| OXIDIZING PROPERTIES | NONE |

OTHER SAFETY INFORMATION

RELATIVE VAPOUR DENSITY 4.45 - (AIR = 1.0)

SECTION 10. STABILITY AND REACTIVITY

| | |
|---------------------------|---|
| REACTIVITY | FORMS EXPLOSIVE MIXTURES WITH AIR ON INTENSE HEATING. A RANGE FROM APPROX. 15 KELVIN BELOW THE FLASH POINT IS TO BE RATED AS CRITICAL. |
| CHEMICAL STABILITY | THE PRODUCT IS CHEMICALLY STABLE UNDER STANDARD AMBIENT CONDITIONS (ROOM TEMPERATURE). |

| | |
|---|---|
| POSSIBILITY OF HAZARDOUS REACTIONS | RISK OF EXPLOSION WITH: FURFURYL ALCOHOL VIOLENT REACTIONS POSSIBLE WITH: AMINES BASES STRONG OXIDIZING AGENTS STRONG REDUCING AGENTS SULFUR COMPOUNDS RISK OF IGNITION OR FORMATION OF INFLAMMABLE GASES OR VAPOURS WITH: METALS MERCAPTANS EXOTHERMIC REACTION WITH: WATER |
| CONDITIONS TO AVOID | STRONG HEATING. |
| INCOMPATIBLE MATERIALS | NO DATA AVAILABLE |
| HAZARDOUS DECOMPOSITION PRODUCTS | IN THE EVENT OF FIRE: SEE SECTION 5 |

SECTION 11. TOXICOLOGICAL INFORMATION

INFORMATION ON TOXICOLOGICAL EFFECTS

| | |
|--|--|
| ACUTE TOXICITY | LD50 ORAL - RAT - 2,820 MG/KG (OECD TEST GUIDELINE 401) INHALATION: CORROSIVE TO RESPIRATORY SYSTEM. LD50 DERMAL - RABBIT - 797 MG/KG REMARKS: (ECHA) NO DATA AVAILABLE |
| SKIN CORROSION/IRRITATION | SKIN RABBIT RESULT: CAUSES SEVERE BURNS. REMARKS: (RTECS) |
| SERIOUS EYE DAMAGE/EYE IRRITATION | EYES RABBIT RESULT: CAUSES SERIOUS EYE DAMAGE. REMARKS: (RTECS) REMARKS: CAUSES SERIOUS EYE DAMAGE. |
| RESPIRATORY OR SKIN SENSITISATION | NO DATA AVAILABLE |

**GERM CELL
MUTAGENICITY**

TEST TYPE: IN VITRO MAMMALIAN CELL GENE
MUTATION TEST

TEST SYSTEM: MOUSE LYMPHOMA CELLS

METABOLIC ACTIVATION: WITH AND WITHOUT
METABOLIC ACTIVATION

METHOD: OECD TEST GUIDELINE 476

RESULT: NEGATIVE

TEST TYPE: AMES TEST

TEST SYSTEM: ESCHERICHIA COLI/SALMONELLA

TYPHIMURIUM METABOLIC ACTIVATION: WITH AND
WITHOUT METABOLIC ACTIVATION

METHOD: OECD TEST GUIDELINE 471

RESULT: NEGATIVE

TEST TYPE: CHROMOSOME ABERRATION TEST IN
VITRO

TEST SYSTEM: CHINESE HAMSTER OVARY CELLS

METABOLIC ACTIVATION: WITH AND WITHOUT
METABOLIC ACTIVATION

METHOD: OECD TEST GUIDELINE 473

RESULT: NEGATIVE

TEST TYPE: TRANSGENIC RODENT SOMATIC CELL
GENE MUTATION ASSAY

SPECIES: MOUSE

CELL TYPE: LIVER CELLS

APPLICATION ROUTE: ORAL

RESULT: NEGATIVE

REMARKS: (ECHA)

TEST TYPE: MICRONUCLEUS TEST

SPECIES: RAT

CELL TYPE: BONE MARROW

APPLICATION ROUTE: ORAL

METHOD: OECD TEST GUIDELINE 475

RESULT: NEGATIVE

CARCINOGENICITY

IARC:

SUSPECTED OF CAUSING CANCER.

2B - GROUP 2B: POSSIBLY CARCINOGENIC TO
HUMANS (DICHLOROACETIC ACID)

NTP:

RAHC - REASONABLY ANTICIPATED TO BE A HUMAN
CARCINOGEN (DICHLOROACETIC ACID)

OSHA:

NO COMPONENT OF THIS PRODUCT PRESENT AT
LEVELS GREATER THAN OR EQUAL TO 0.1% IS ON
OSHA S LIST OF REGULATED CARCINOGENS.

REPRODUCTIVE TOXICITY

MAY DAMAGE THE UNBORN CHILD.

MAY DAMAGE FERTILITY. STUDIES INDICATING A
HAZARD TO BABIES DURING THE LACTATION
PERIOD

| | |
|---|--|
| SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE | NO DATA AVAILABLE |
| SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE | ORAL - MAY CAUSE DAMAGE TO ORGANS THROUGH PROLONGED OR REPEATED EXPOSURE. - BRAIN, LIVER, TESTES |
| ASPIRATION HAZARD | NO DATA AVAILABLE |
| ADDITIONAL INFORMATION | <p>RTECS: AG6125000</p> <p>MATERIAL IS EXTREMELY DESTRUCTIVE TO TISSUE OF THE MUCOUS MEMBRANES AND UPPER RESPIRATORY TRACT, EYES, AND SKIN., COUGH, SHORTNESS OF BREATH, HEADACHE, NAUSEA</p> <p>TO THE BEST OF OUR KNOWLEDGE, THE CHEMICAL, PHYSICAL, AND TOXICOLOGICAL PROPERTIES HAVE NOT BEEN THOROUGHLY INVESTIGATED.</p> |

SECTION 12. ECOLOGICAL INFORMATION

| | |
|---|--|
| TOXICITY | NO DATA AVAILABLE |
| PERSISTENCE AND DEGRADABILITY | |
| BIODEGRADABILITY | AEROBIC - EXPOSURE TIME 15 D RESULT: 93 % - READILY BIODEGRADABLE. |
| BIOACCUMULATIVE POTENTIAL | NO DATA AVAILABLE |
| MOBILITY IN SOIL | NO DATA AVAILABLE |
| RESULTS OF PBT AND VPVB ASSESSMENT | PBT/VPVB ASSESSMENT NOT AVAILABLE AS CHEMICAL SAFETY ASSESSMENT NOT REQUIRED/NOT CONDUCTED |
| OTHER ADVERSE EFFECTS | NO DATA AVAILABLE |

SECTION 13. DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHODS

| | |
|-------------------------------|--|
| PRODUCT | WASTE MATERIAL MUST BE DISPOSED OF IN ACCORDANCE WITH THE NATIONAL AND LOCAL REGULATIONS. LEAVE CHEMICALS IN ORIGINAL CONTAINERS. NO MIXING WITH OTHER WASTE. HANDLE UNCLEANED CONTAINERS LIKE THE PRODUCT ITSELF. |
| CONTAMINATED PACKAGING | DISPOSE OF AS UNUSED PRODUCT. |

SECTION 14. TRANSPORT INFORMATION

DOT (US)
 PROPER SHIPPING NAME: DICHLOROACETIC ACID
 UN NUMBER: 1764
 CLASS: 8
 PACKING GROUP: II
 REPORTABLE QUANTITY
 (RQ):
 POISON INHALATION NO
 HAZARD:

IMDG
 PROPER SHIPPING NAME: DICHLOROACETIC ACID
 UN NUMBER: 1764
 CLASS: 8
 PACKING GROUP: II
 EMS-NO: F-A, S-B
 MARINE POLLUTANT: YES

IATA
 PROPER SHIPPING NAME: DICHLOROACETIC ACID
 UN NUMBER: 1764
 CLASS: 8
 PACKING GROUP: II

SECTION 15. REGULATORY INFORMATION

| | |
|-----------------------------|--|
| SARA 302 COMPONENTS | THIS MATERIAL DOES NOT CONTAIN ANY COMPONENTS WITH A SECTION 302 EHS TPQ. |
| SARA 313 COMPONENTS | THIS MATERIAL DOES NOT CONTAIN ANY CHEMICAL COMPONENTS WITH KNOWN CAS NUMBERS THAT EXCEED THE THRESHOLD (DEMINIMIS) REPORTING LEVELS ESTABLISHED BY SARA TITLE III, SECTION 313. |
| SARA 311/312 HAZARDS | ACUTE HEALTH HAZARD, CHRONIC HEALTH HAZARD |

MASSACHUSETTS RIGHT TO KNOW COMPONENTS

NO COMPONENTS ARE SUBJECT TO THE MASSACHUSETTS RIGHT TO KNOW ACT.

CALIFORNIA PROP. 65 COMPONENTS

WARNING! THIS PRODUCT CONTAINS A CHEMICAL
KNOWN TO THE STATE OF CALIFORNIA TO CAUSE
CANCER.

Dichloroacetic acid

CAS-NO.
79-43-6

REVISION DATE
08/25/2015

SECTION 16. OTHER INFORMATION

FULL TEXT OF H-STATEMENTS REFERRED TO UNDER SECTIONS 2 AND 3.

| | |
|------|--|
| H290 | MAY BE CORROSIVE TO METALS. |
| H311 | TOXIC IN CONTACT WITH SKIN. |
| H314 | CAUSES SEVERE SKIN BURNS AND EYE DAMAGE. |
| H351 | SUSPECTED OF CAUSING CANCER. |
| H360 | MAY DAMAGE FERTILITY OR THE UNBORN CHILD. |
| H362 | MAY CAUSE HARM TO BREAST-FED CHILDREN. |
| H373 | MAY CAUSE DAMAGE TO ORGANS (BRAIN, LIVER, TESTES) THROUGH PROLONGED OR REPEATED EXPOSURE IF SWALLOWED. |
| H400 | H400 |

MSDS LEGEND

| | |
|--------|--|
| MW: | MOLECULAR WEIGHT |
| MF: | MOLECULAR FORMULA |
| VOC: | VOLATILE ORGANIC COMPOUNDS |
| ACGIH: | AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS |
| CAS: | CHEMICAL ABSTRACTS SERVICE REGISTRY NUMBER |
| OSHA: | OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION |
| PEL: | PERMISSIBLE EXPOSURE LIMIT (OSHA) |
| TLV: | THRESHOLD LIMIT VALUE (ACGIH) |

IMPORTANT:

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