

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 14/04/2015

Revision date:

Version: 1.0

CLM-4551-S

| | | ubstance/mixture and of the company/undertaking |
|--|--------------------------|--|
| 1.1. Product id | entifier | |
| Product form | | : Mixtures |
| Product name. | | : 2,4,5-TRICHLOROPHENOXYACETIC ACID (RING-13C6, 99%) 100 UG/ML IN CH2CL2 |
| Product code | | : CLM-4551-S |
| 1.2. Relevant id | lentified uses of the su | bstance or mixture and uses advised against |
| 1.2.1. Relevant id | lentified uses | |
| Industrial/Professiona | l use spec | : For professional use only. |
| 1.2.2. Uses advis | ed against | |
| No additional informa | - | |
| 1.3. Details of t | he supplier of the safet | ty data sheet |
| Cambridge Isotope La | | |
| 50 Frontage Road | | |
| Andover, MA 01810 | | |
| USA | 4 Int: 1-978-749-8000 | |
| cilsales@isotope.com | www.isotope.com | |
| | / telephone number | |
| Emergency numbers: | | |
| Chemtrec: 1-800-424 International: 1-703-7 | | |
| SECTION 2: Haz | ards identification | |
| 2.1. Classificat | ion of the substance or | mixture |
| Classification accor | ding to Regulation (EC) |) No. 1272/2008 [CLP] |
| Acute Tox. 4 (Oral) | H302 | |
| Acute Tox. 4 (Dermal |) H312 | |
| Skin Irrit. 2 | H315 | |
| Eye Irrit. 2 | H319 | |
| Carc. 2 | H351 | |
| STOT SE 3 | H335 | |
| STOT RE 2 | H373 | |
| Full text of H-phrases | : see section 16 | |
| Classification accor | ding to Directive 67/548 | 3/EEC or 1999/45/EC |
| Carc.Cat.3; R40 T; R39/23/24/25 Xi; R36/38 | | |
| Full text of R-phrases | : see section 16 | |
| Classification (GHS | US) | |
| Acute Tox. 4 (Oral) | H302 | |
| Acute Tox. 4 (Dermal |) H312 | |
| Skin Irrit. 2 | H315 | |
| Eye Irrit. 2A Carc. 2 | H319 H351 | |
| STOT SE 3 | H335 | |
| | H336 | |

Adverse physicochemical, human health and environmental effects

H336

H373

Liver, Pancreas, Blood, Central nervous system, Heart, Kidney. Inhalation: anesthetic effects, nausea and drunkeness.

STOT SE 3

STOT RE 2

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| 2.2. Label elements | |
|---|--|
| Labeling according to Regulation (EC) N | No. 1272/2008 [CLP] |
| Hazard pictograms (CLP) | |
| | |
| | |
| | |
| | GHS07 GHS08 |
| Signal word (CLP) | : Warning |
| Hazardous ingredients | : METHYLENE CHLORIDE UNLABELED |
| Hazard statements (CLP) | : H302+H312 - Harmful if swallowed or in contact with skin H315 - Causes skin irritation |
| | H319 - Causes serious eye irritation |
| | H335 - May cause respiratory irritation H351 - Suspected of causing cancer |
| | H373 - May cause damage to organs (liver, pancreas, blood, central nervous system, heart, |
| | kidneys) through prolonged or repeated exposure |
| Precautionary statements (CLP) | : P260 - Do not breathe fume, mist, spray, vapors P264 - Wash both hands thoroughly after handling |
| | P270 - Do no eat, drink or smoke when using this product |
| | P271 - Use only outdoors or in a well-ventilated area |
| | P280 - Wear eye protection, face protection, protective clothing, protective gloves P301+P312 - IF SWALLOWED: Call a POISON CENTER/doctor//if you feel unwell |
| | P302+P352 - IF ON SKIN: Wash with plenty of water/ |
| | P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing |
| GHS-US labeling | |
| Hazard pictograms (GHS-US) | |
| ······································ | |
| | |
| | |
| | GHS07 GHS08 |
| Signal word (GHS-US) | : Warning |
| Hazard statements (GHS-US) | : H302+H312 - Harmful if swallowed or in contact with skin |
| | H315 - Causes skin irritation H319 - Causes serious eye irritation |
| | H335 - May cause respiratory irritation |
| | H336 - May cause drowsiness or dizziness H351 - Suspected of causing cancer (Dermal, Inhalation, oral) |
| | H373 - May cause damage to organs (liver, pancreas, blood, central nervous system, heart, |
| | kidneys) through prolonged or repeated exposure (Dermal, Inhalation, oral) |
| Precautionary statements (GHS-US) | : P201 - Obtain special instructions before use |
| | P202 - Do not handle until all safety precautions have been read and understood P260 - Do not breathe fume, mist, spray, vapors |
| | P261 - Avoid breathing fume, mist, spray, vapors |
| | P264 - Wash Both hands thoroughly after handling P270 - Do no eat, drink or smoke when using this product |
| | P271 - Use only outdoors or in a well-ventilated area |
| | P280 - Wear eye protection, face protection, protective clothing, protective gloves P301+P312 - IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell |
| | P302+P352 - IF ON SKIN: Wash with plenty of soap and water |
| | P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position comfortabl |
| | for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contac |
| | lenses, if present and easy to do. Continue rinsing |
| | P308+P313 - IF exposed or concerned: Get medical advice/attention P312 - Call a POISON CENTER/doctor/physician if you feel unwell |
| | P314 - Get medical advice and attention if you feel unwell |
| | P321 - Specific treatment (see Hazard pictograms (CLP) on this label) P330 - If swallowed, rinse mouth |
| | P332+P313 - If skin irritation occurs: Get medical advice/attention |
| | P337+P313 - If eye irritation persists: Get medical advice/attention |
| | P362 - Take off contaminated clothing and wash before reuse P362+P364 - Take off contaminated clothing and wash it before reuse |
| | P403+P233 - Store in a well-ventilated place. Keep container tightly closed |

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P405 - Store locked up

P501 - Dispose of contents/container to Comply with applicable regulations.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable 3.2. Mixtures

| 3.2. Mixtures | | | |
|--|---|---------|--|
| Name | Product identifier | % | Classification according to Directive 67/548/EEC |
| METHYLENE CHLORIDE UNLABELED | (CAS No) 75-09-2 (EC no) 000-838-9 (EC index no) 602-004-00-3 | 99.9925 | Carc.Cat.3; R40 T; R39/23/24/25 Xi; R36/38 R67 |
| 2,4,5-TRICHLOROPHENOXYACETIC ACID (RING-13C6, 99%) | (CAS No) 93-76-5 (unlabeled) (EC no) 202-273-3 (EC index no) 607-041-00-9 | 0.0075 | T; R25 Xn; R21 Xi; R36 Xi; R38 N; R50 R48 |
| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
| METHYLENE CHLORIDE UNLABELED | (CAS No) 75-09-2 (EC no) 000-838-9 (EC index no) 602-004-00-3 | 99.9925 | Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 1, H370 STOT SE 3, H336 |
| 2,4,5-TRICHLOROPHENOXYACETIC ACID (RING-13C6, 99%) | (CAS No) 93-76-5 (unlabeled) (EC no) 202-273-3 (EC index no) 607-041-00-9 | 0.0075 | Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 |
| Name | Product identifier | % | Classification (GHS-US) |
| METHYLENE CHLORIDE UNLABELED | (CAS No) 75-09-2 | 99.9925 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 STOT SE 3, H336 STOT SE 3, H335 STOT RE 2, H373 |

Full text of R-, H- and EUH-phrases: see section 16

| SECTION 4: First aid measures | |
|--|---|
| 4.1. Description of first aid measures | |
| First-aid measures general | : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area. |
| First-aid measures after inhalation | : Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor/physician if you feel unwell. |
| First-aid measures after skin contact | : Wash off with soap and plenty of water. Consult a physician. |
| First-aid measures after eye contact | : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| First-aid measures after ingestion | : Rinse mouth. Call a POISON CENTER/doctor/physician if you feel unwell. |
| 4.2. Most important symptoms and effec | ts, both acute and delayed |
| Symptoms/injuries after inhalation | : May cause respiratory irritation. |
| Symptoms/injuries after skin contact | : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin. Causes skin irritation. |
| Symptoms/injuries after eye contact | : Causes eye irritation. |
| Symptoms/injuries after ingestion | : Swallowing a small quantity of this material will result in serious health hazard. |
| 4.3. Indication of any immediate medical | attention and special treatment needed |
| No additional information available | |
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|---|--|---|--|--|--|
| SECTION 5: Firef | ghting measures | 5 | | | |
| 5.1. Extinguishir | ig media | | | | |
| suitable extinguishing media : Use water spray, alcohol-resistant foam, | | | oam, dry chemical, or carbon dioxide. | | |
| 5.2. Special haza | rds arising from the | substance or mixture | | | |
| No additional information | on available | | | | |
| 5.3. Advice for fi | refighters | | | | |
| Protection during firefig | hting | : Do not enter fire area without proper | r protective equipment, including respiratory protection. | | |
| SECTION 6: Acci | dental release me | easures | | | |
| 6.1. Personal pro | ecautions, protective | equipment and emergency procedures | | | |
| 6.1.1. For non-eme | ergency personnel | | | | |
| Emergency procedures | | | : Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation. Evacuate personnel to safe area. | | |
| 6.1.2. For emerger | icy responders | | | | |
| No additional information | | | | | |
| 6.2. Environmen | tal precautions | | | | |
| | | lo so. Do not let product enter drains. | | | |
| 6.3. Methods and | d material for contain | ment and cleaning up | | | |
| For containment | | 01 | al and dispose of as hazardous waste. Keep in suitable, | | |
| 6.4. Reference to | other sections | | | | |
| No additional information | on available | | | | |
| SECTION 7: Hand | lling and storage | | | | |
| | for safe handling | | | | |
| Additional hazards whe | n processed | : Avoid contact with skin and eyes. Av | void inhalation of vapour or mist. | | |
| Precautions for safe ha | Precautions for safe handling : Obtain special instructions before use. Do not handle until all safety precautions have been re and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. | | | | |
| Hygiene measures | | | | | |
| 7.2. Conditions | or safe storage, inclu | uding any incompatibilities | | | |
| Storage conditions | | : Store at room temperature away from | m light and moisture. | | |
| 7.3. Specific end | use(s) | | | | |
| No additional information | on available | | | | |
| SECTION 8: Expo | sure controls/pe | ersonal protection | | | |
| 8.1. Control para | | | | | |
| 2,4,5-TRICHLOROPH | IENOXYACETIC ACI | D (RING-13C6, 99%) 100 UG/ML IN CH2C | L2 | | |
| Italy - Portugal - USA | ACGIH ACGIH TW | A (ppm) | 50.0000000000 ppm Central Nervous System impairment, Carboxyhemoglobinemia substances (see BEI) | | |
| METHYLENE CHLO | RIDE UNLABELED (7 | 5-09-2) | | | |
| Italy - Portugal - USA | | • | 50.0000000000 ppm Central Nervous System impairment, Carboxyhemoglobinemia substances (see BEI) | | |
| USA OSHA | OSHA PEL | (STEL) (ppm) | 125.000000000 ppm | | |
| | | | | | |
| 2,4,5-TRICHLOROPH | | D (RING-13C6, 99%) (93-76-5 (unlabeled)) A (mg/m³) | 10.000000000 mg/m ³ Peripheral Nervous System | | |
| Italy - Portugal - USA | ACGILL ACGILLIN | (iiig/iii) | receeded ing/in a chphoral terread eyetem | | |
| Italy - Portugal - USA USA OSHA | | (TWA) (mg/m3) | impairment. Could be carcinogenic for humans. 10.0000000000 mg/m ³ | | |

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| 8.2. Exposure controls | | | |
|---|--|--|--|
| Personal protective equipment | : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus. | | |
| | | | |
| Hand protection | : Wear suitable protective clothing and gloves. | | |
| Eye protection | : Wear safety glasses with side shields (or goggles) and a face shield. | | |
| Skin and body protection | Wear suitable protective clothing. | | |
| Respiratory protection | : When appropriate, use NIOSH/CEN approved respirator. | | |
| SECTION 9: Physical and chemical | properties | | |
| 9.1. Information on basic physical and | chemical properties | | |
| The properties listed below are for the solvent, the main compo | nent of this mixture. | | |
| Physical state | : Liquid | | |
| Appearance | : Liquid. | | |
| Molecular mass | : 84.93 | | |
| Color | : Colourless. | | |
| Odor | : Sweet, penetrating, ether-like odor. | | |
| Odor threshold | : No data available | | |
| рН | : No data available | | |
| Relative evaporation rate (butyl acetate=1) | : No data available | | |
| Melting point | : -97 °C (-143 °F) | | |
| Freezing point | : No data available | | |
| Boiling point | : 39.8 - 40 °C (103.6 - 104 °F) | | |
| Flash point | : No data available | | |
| Self ignition temperature | : 556.1 °C (1,033.0 °F) | | |
| Decomposition temperature | : No data available | | |
| Flammability (solid, gas) | : No data available | | |
| Vapor pressure | : 470.9 hPa (353.2 mmHg) at 20.0 °C (68.0 °F) | | |
| Relative vapor density at 20 °C | : 2.93 - (Air = 1.0) | | |
| Relative density | : No data available | | |
| Solubility | : No data available | | |
| Log Pow | : No data available | | |
| Log Kow | : No data available | | |
| Viscosity, kinematic | : No data available | | |
| Viscosity, dynamic | : No data available | | |
| Explosive properties | : No data available | | |
| Oxidizing properties | : No data available | | |
| Explosive limits | : 12 - 19 % (V) | | |
| • | | | |

9.2. Other information

No additional information available

| SECT | ION 10: Stability and reactivity |
|-----------|---|
| 10.1. | Reactivity |
| No addi | tional information available |
| 10.2. | Chemical stability |
| See sto | rage and expiration date on CoA. |
| 10.3. | Possibility of hazardous reactions |
| No addi | tional information available |
| 10.4. | Conditions to avoid |
| Heat, fla | ames and sparks. Exposure to sunlight. |
| 10.5. | Incompatible materials |
| Alkali m | etals, Aluminum, Strong oxidizing agents, Bases, Amines, Magnesium. Strong acids and strong bases, Vinyl compounds. |

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|--|---|--|--|--|--|--|
| 10.6. Hazardous decomposition products | | | | | | |
| Formed under fire conditions Carbon oxides, Hydrogen chloride gas. | | | | | | |
| SECTION 11: Toxicological information | | | | | | |
| 11.1. Information on toxicological effects | | | | | | |
| Acute toxicity | | | | | | |
| 2,4,5-TRICHLOROPHENOXYACETIC ACID (R | | | | | | |
| LC50 inhalation rat (mg/l) | 52000 mg/m ³ | | | | | |
| ATE (oral) | 500.000 mg/kg body weight | | | | | |
| ATE (dermal) | 1100.000 mg/kg body weight | | | | | |
| ATE (vapors) | 52.000 mg/l/4h | | | | | |
| ATE (dust, mist) | 52.000 mg/l/4h | | | | | |
| | | | | | | |
| METHYLENE CHLORIDE UNLABELED (75-09 | | | | | | |
| LC50 inhalation rat (mg/l) | 52000 mg/m ³ | | | | | |
| ATE (dermal) | 1100.000 mg/kg body weight | | | | | |
| ATE (vapors) | 52.000 mg/l/4h | | | | | |
| ATE (dust, mist) | 52.000 mg/l/4h | | | | | |
| 2,4,5-TRICHLOROPHENOXYACETIC ACID (R | ING-13C6, 99%) (93-76-5 (unlabeled)) | | | | | |
| LD50 oral rat | 300 mg/kg | | | | | |
| ATE (oral) | 300.000 mg/kg body weight | | | | | |
| ATE (dermal) | 1100.000 mg/kg body weight | | | | | |
| Skin corrosion/irritation | : Causes skin irritation. | | | | | |
| | Skin - rabbit - Skin irritation - 24 h - Draize Test | | | | | |
| Serious eye damage/irritation | : Causes serious eye irritation. | | | | | |
| | Eyes - rabbit - Mild eye irritation - 24 h - Draize Test | | | | | |
| Respiratory or skin sensitization | : Not available | | | | | |
| | No data available | | | | | |
| Germ cell mutagenicity | : Genotoxicity in vivo - rat - Oral : DNA damage | | | | | |
| Carcinogenicity | : Suspected of causing cancer. | | | | | |
| | | | | | | |
| Reproductive toxicity | : Not available | | | | | |
| Specific target organ toxicity (single exposure) | : May cause respiratory irritation. | | | | | |
| | May cause respiratory irritation. May cause drowsiness or dizziness. | | | | | |
| Specific target organ toxicity (repeated | : May cause damage to organs (liver, pancreas, blood, central nervous system, heart, kidneys) | | | | | |
| exposure) | through prolonged or repeated exposure. | | | | | |
| | Inhalation/Oral - May cause damage to organs through repeated exposure. | | | | | |
| Aspiration hazard | : Not classified | | | | | |
| Potential Adverse human health effects and | : Harmful if swallowed. Harmful in contact with skin. | | | | | |
| symptoms | | | | | | |
| IARC group | : 2B | | | | | |
| Symptoms/injuries after inhalation | : May cause respiratory irritation. | | | | | |
| Symptoms/injuries after skin contact | : Repeated exposure to this material can result in absorption through skin causing significant health hazard. Harmful in contact with skin. Causes skin irritation. | | | | | |
| Symptoms/injuries after eye contact : Causes eye irritation. | | | | | | |
| Symptoms/injuries after ingestion | : Swallowing a small quantity of this material will result in serious health hazard. | | | | | |
| - | | | | | | |

| SECTION 12: Ecological information | | | | |
|--|---|------|--|--|
| 12.1. Toxicity | | | | |
| 2,4,5-TRICHLOROPHENOXYACETIC ACID (RING-13C6, 99%) 100 UG/ML IN CH2CL2 | | | | |
| LC50 fish 1 | 193.00 mg/l Pimephales promelas (fathead minnow) - 96 h | | | |
| EC50 Daphnia 1 | 1682.00 mg/l Daphnia magna (Water flea) - 48 h | | | |
| NOEC (chronic) | 130 mg/l Cyprinodon variegatus (sheepshead minnow) - 96 h | | | |
| METHYLENE CHLORIDE UNLABELED (75-09- | 2) | | | |
| LC50 fish 1 | 193.00 mg/l Pimephales promelas (fathead minnow) - 96 h | | | |
| EC50 Daphnia 1 | 1682.00 mg/l Daphnia magna (Water flea) - 48 h | | | |
| NOEC (chronic) | 130 mg/l Cyprinodon variegatus (sheepshead minnow) - 96 h | | | |
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| 2,4,5-TRICHLOROPHENOXYACETIC ACID | |
|---|---|
| LC50 fish 1 | 0.15 mg/l Onchorhynchus mykiss (rainbow trout) - 96 h |
| EC50 Daphnia 1 | 5 mg/l Daphnia magna (Water flea) - 96 h |
| 2.2. Persistence and degradability | |
| 2,4,5-TRICHLOROPHENOXYACETIC ACID | RING-13C6. 99%) 100 UG/ML IN CH2CL2 |
| Persistence and degradability | Result: < 30.0 % - Not readily biodegradable. |
| METHYLENE CHLORIDE UNLABELED (75- | |
| Persistence and degradability | Result: < 30.0 % - Not readily biodegradable. |
| • · | |
| 2,4,5-TRICHLOROPHENOXYACETIC ACID (| |
| Persistence and degradability | Not available. |
| 2.3. Bioaccumulative potential | |
| 2,4,5-TRICHLOROPHENOXYACETIC ACID | RING-13C6, 99%) 100 UG/ML IN CH2CL2 |
| Bioaccumulative potential | Not available. |
| METHYLENE CHLORIDE UNLABELED (75- | 09-2) |
| Bioaccumulative potential | Not available. |
| 2,4,5-TRICHLOROPHENOXYACETIC ACID | RING-13C6. 99%) (93-76-5 (unlabeled)) |
| BCF fish 1 | Gambusia affinis (Mosquito fish) - 32 d |
| Bioconcentration factor (BCF REACH) | 26 |
| 2.4. Mobility in soil | |
| | |
| 2,4,5-TRICHLOROPHENOXYACETIC ACID (Ecology - soil | Not available. |
| | |
| METHYLENE CHLORIDE UNLABELED (75- | |
| Ecology - soil | Not available. |
| 2,4,5-TRICHLOROPHENOXYACETIC ACID | RING-13C6, 99%) (93-76-5 (unlabeled)) |
| Ecology - soil | Not available. |
| 2.5. Results of PBT and vPvB assessme | ent |
| lo additional information available | |
| 2.6. Other adverse effects | |
| Other adverse effects | : Not available. |
| | |
| SECTION 13: Disposal consideratio | ns |
| 3.1. Waste treatment methods | |
| Regional legislation (waste) | : Waste materials should be disposed of under conditions which meet Federal, State, and Loca environmental control regulations. |
| Vaste disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. |
| vaste disposal recommendations | |
| SECTION 14: Transport information | |
| n accordance with ADR / RID / ADNR / IMDG / | ICAO / IATA |
| 4.1. UN number | |
| JN-No.(DOT) | : 1593 |
| DOT NA no. | UN1593 |
| 4.2. UN proper shipping name | |
| OOT Proper Shipping Name | : Dichloromethane |
| Department of Transportation (DOT) Hazard Classes | : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132 |
| lazard labels (DOT) | : 6.1 - Poison inhalation hazard |
| | 6 |
| Packing group (DOT) | : III - Minor Danger |
| 3/04/2015 | EN (English US) 7/1 |
| | EIN (EIN)(SU U.S.) [//] |

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| DOT Special Provisions (49 CFR 172.102) | IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HD2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). IP8 - Ammonia solutions may be transported in rigid or composite plastic IBCs (31H1, 31H2 and 31HZ1) that have successfully passed, without leakage or permanent deformation, the hydrostatic test specified in 178.814 of this subchapter at a test pressure that is not less than 1.5 times the vapor pressure of the contents at 55 C (131 F). N36 - Aluminum or aluminum alloy construction materials are permitted only for halogenated hydrocarbons that will not react with aluminum. T7 - 4 178.274(d)(2) Normal |
|--|--|
| | liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 |
| | F) and 50 C (122 F), respectively. |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : 153 |
| DOT Packaging Non Bulk (49 CFR 173.xxx) | : 203 |
| DOT Packaging Bulk (49 CFR 173.xxx) | : 241 |
| 14.3. Additional information | |
| 14.3. Additional information Other information | : No supplementary information available. |
| Calor montation | . איז שערוסוומוץ וווסווומוסו מימומטוב. |
| Overland transport | |
| - | : III |
| Packing group (ADR) | |
| Class (ADR) | : 6.1 - Toxic substances |
| Hazard identification number (Kemler No.) | : 60 |
| Classification code (ADR) | : T1 |
| Orange plates | - 60 |
| | 1593 |
| Tunnel restriction code | : E |
| Limited quantities (ADR) | 5L |
| EAC | : 2Z |
| Excepted quantities (ADR) | : E1 |
| | |
| Transport by sea | |
| DOT Vessel Stowage Location | : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel. |
| MFAG-No | : 160 |
| Air transport | |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 60 L |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | : 220 L |
| Civil Aeronautics Law | : Toxic and infectious substances/Toxic substances |
| | |
| 14.4. Environmental hazards | |
| Other information | : No supplementary information available. |
| 23/04/2015 | EN (English LIS) 8/10 |
| | |

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| 14.5. | Special r | precautions | for user | |
|-------|-----------|-------------|----------|--|
| 14.5. | | / ccautons | ior user | |

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

| SECTION 15: Regulatory information | | | | |
|---|--|--|--|--|
| 15.1. US Federal regulations | | | | |
| 2,4,5-TRICHLOROPHENOXYACETIC ACID (RI | NG-13C6, 99%) 100 UG/ML IN CH2CL2 | | | |
| Listed on SARA Section 313 (Specific toxic chemical listings) | | | | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Delayed (chronic) health hazard | | | |
| METHYLENE CHLORIDE UNLABELED (75-09-2) | | | | |
| Listed on SARA Section 313 (Specific toxic chemical listings) | | | | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Delayed (chronic) health hazard | | | |

15.2. International regulations

CANADA

| 2,4,5-TRICHLOROPHENOXYACETIC ACID (RING-13C6, 99%) 100 UG/ML IN CH2CL2 | | |
|--|--|--|
| Listed on the Canadian DSL (Domestic Substances List) inventory. | | |
| METHYLENE CHLORIDE UNLABELED (75-09-2) | | |
| Listed on the Canadian DSL (Domestic Substances List) inventory. | | |

15.2.1. National regulations

No additional information available

| 15.3. US State regulations | | |
|--|--|--|
| 2,4,5-TRICHLOROPHENOXYACETIC ACID (RING-13C6, 99%) 100 UG/ML IN CH2CL2() | | |
| State or local regulations | U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List WARNING! This product contains a chemical known by the state of California to cause cancer. | |

METHYLENE CHLORIDE UNLABELED (75-09-2)

U.S. - Massachusetts - Right To Know List

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - New Jersey - Right to Know Hazardous Substance List

WARNING! This product contains a chemical known by the state of California to cause cancer.

SECTION 16: Other information

Other information

: This product is not radioactive. The data given for this product are those of the corresponding unlabeled compound, unless specifically indicated otherwise. Health and safety data for labeled compounds are generally not available, but are assumed to be similar or identical to the corresponding unlabeled compound.

Full text of R-, H- and EUH-phrases::

| Acute Tox. 3 (Oral) | Acute toxicity (oral) Category 3 |
|-----------------------|--|
| Acute Tox. 4 (Dermal) | Acute toxicity (dermal) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4 |
| Aquatic Acute 1 | Hazardous to the aquatic environment - Acute Hazard Category 1 |
| Carc. 2 | Carcinogenicity Category 2 |
| Eye Irrit. 2 | Serious eye damage/eye irritation Category 2 |
| Skin Irrit. 2 | skin corrosion/irritation Category 2 |
| STOT RE 2 | Specific target organ toxicity (repeated exposure) Category 2 |

Safety Data Sheet

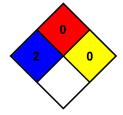
according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| STOT SE 1 | Specific target organ toxicity (single exposure) Category 1 |
|--------------|--|
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H301 | Toxic if swallowed |
| H302 | Harmful if swallowed |
| H312 | Harmful in contact with skin |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H335 | May cause respiratory irritation |
| H336 | May cause drowsiness or dizziness |
| H351 | Suspected of causing cancer |
| H370 | Causes damage to organs |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life |
| R21 | Harmful in contact with skin |
| R25 | Toxic if swallowed |
| R36 | Irritating to eyes |
| R36/38 | Irritating to eyes and skin |
| R38 | Irritating to skin |
| R39/23/24/25 | Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed |
| R40 | Limited evidence of a carcinogenic effect |
| R48 | Danger of serious damage to health by prolonged exposure |
| R50 | Very toxic to aquatic organisms |
| R67 | Vapors may cause drowsiness and dizziness |
| Ν | Dangerous for the environment |
| Т | Toxic |
| Xi | Irritant |
| Xn | Harmful |
| | · · · · · · · · · · · · · · · · · · · |

NFPA health hazard

: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.

: 0 - Normally stable, even under fire exposure conditions,



NFPA fire hazard NFPA reactivity

| HMIS III Rating | |
|-----------------|---|
| Health | : 2 Moderate Hazard - Temporary or minor injury may occur |
| Flammability | : 0 Minimal Hazard |
| Physical | : 0 Minimal Hazard |

: 0 - Materials that will not burn.

and are not reactive with water.

CIL Mixture SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product