

DECHLORANES AND BFR NATIVE STANDARD MIXTURE 10 UG/ML IN NONANE/TOLUENE

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 14/12/2017 Revision date: : Version: 1.0 ES-5606

| SECTION 1: Identification of the sub | ostance/mixture and of the company/undertaking |
|--------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|
| 1.1. Product identifier | |
| Product form | : Mixtures |
| Product name | : DECHLORANES AND BFR NATIVE STANDARD MIXTURE 10 UG/ML IN NONANE/TOLUENE |
| Product code | : ES-5606 |
| 1.2. Relevant identified uses of the subs | stance or mixture and uses advised against |
| 1.2.1. Relevant identified uses | |
| Main use category | : Professional use |
| Industrial/Professional use spec | : For professional use only |
| 1.2.2. Uses advised against | |
| No additional information available | |
| 1.3. Details of the supplier of the safety | data sheet |
| Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA | |
| USA: 1-800-322-1174 Int: 1-978-749-8000 cilsales@isotope.com www.isotope.com | |
| Emergency telephone number | |
| Emergency numbers: | |
| Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours) | |
| SECTION 2: Hazards identification | |
| 2.1. Classification of the substance or m | nixture |
| Classification according to Regulation (EC) N | No. 1272/2008 [CLP] |
| Flam. Liq. 2 H225 | |
| Acute Tox. 4 (Inhalation) H332 | |
| Skin Irrit. 2 H315 | |
| Eye Irrit. 2 H319 | |
| Repr. 2 H361 | |
| STOT SE 3 H336 | |
| STOT RE 2 H373 | |
| Asp. Tox. 1 H304 | |
| Full text of hazard classes and H-statements : se | ee section 16 |
| Classification according to Directive 67/548/E | EEC [DSD] or 1999/45/EC [DPD] |
| Repr.Cat.3; R62 Repr.Cat.3; R63 | |
| F; R11 Xn; R20 Xn; R48/20 Xi; R36/37/38 R67 | |
| Xn; R20 Xn; R48/20 Xi; R36/37/38 | |

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| STOT RE 2 | H373 |
|-----------------|------|
| Asp. Tox. 1 | H304 |
| Aquatic Acute 2 | H401 |

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

Central Nervous System. Flammable liquid and vapor. May cause drowsiness or dizziness. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May be fatal if swallowed and enters airways.

| 2.2. Label elements | | | | | |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|
| Labeling according to Regulation (EC) N | lo. 1272/2008 [CLP] | | | | |
| Hazard pictograms (CLP) | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | GHS02 GHS08 GHS07 | | | | |
| Signal word (CLP) | : Danger | | | | |
| Hazardous ingredients | : TOLUENE UNLABELED; N-NONANE UNLABELED | | | | |
| Hazard statements (CLP) | : H225 - Highly flammable liquid and vapor | | | | |
| | H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation | | | | |
| | H319 - Causes serious eye irritation | | | | |
| | H332 - Harmful if inhaled | | | | |
| | H336 - May cause drowsiness or dizziness | | | | |
| | H361 - Suspected of damaging fertility. Suspected of damaging the unborn child (if inhaled, if | | | | |
| | swallowed, in contact with skin) H373 - May cause damage to organs (brain, kidneys, liver, urinary bladder) through prolonged | | | | |
| | or repeated exposure (if inhaled, if swallowed, in contact with skin) | | | | |
| Precautionary statements (CLP) | : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No | | | | |
| | smoking P233 - Keep container tightly closed | | | | |
| | P240 - Ground/bond container and receiving equipment | | | | |
| | P241 - Use explosion-proof electrical, lighting, ventilating equipment | | | | |
| | P260 - Do not breathe dust, fume, gas, mist, spray, vapors | | | | |
| | P264 - Wash hands, forearms and face thoroughly after handling P271 - Use only outdoors or in a well-ventilated area | | | | |
| | P280 - Wear protective clothing, protective gloves | | | | |
| | | | | | |
| GHS-US labeling | | | | | |
| Hazard pictograms (GHS-US) | | | | | |
| Hazard pictograms (Cric CC) | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | GHS02 GHS08 GHS07 | | | | |
| Signal word (GHS-US) | : Danger | | | | |
| Hazard statements (GHS-US) | : H225 - Highly flammable liquid and vapor | | | | |
| | H304 - May be fatal if swallowed and enters airways | | | | |
| | H315 - Causes skin irritation | | | | |
| | H319 - Causes serious eye irritation H332 - Harmful if inhaled | | | | |
| | H336 - May cause drowsiness or dizziness | | | | |
| | H361 - Suspected of damaging fertility, Suspected of damaging the unborn child (Dermal, | | | | |
| | Inhalation, oral) | | | | |
| | H373 - May cause damage to organs (brain, kidneys, liver, urinary bladder) through prolonged or repeated exposure (Dermal, Inhalation, oral) | | | | |
| | H401 - Toxic to aquatic life | | | | |
| Precautionary statements (GHS-US) | : P201 - Obtain special instructions before use | | | | |
| | P202 - Do not handle until all safety precautions have been read and understood | | | | |
| | P210 - Keep away from heat, hot surfaces, open flames, sparks No smoking | | | | |
| | P233 - Keep container tightly closed | | | | |
| | P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment | | | | |
| | | | | | |
| 19/12/2017 | EN (English US) 2/18 | | | | |

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| , | 0 | |
|---|---|----------------------------------------------------------------------------------------------|
| | | P242 - Use only non-sparking tools |
| | | P243 - Take precautionary measures against static discharge |
| | | P260 - Do not breathe dust, fume, gas, mist, spray, vapors |
| | | P261 - Avoid breathing dust, fume, gas, mist, spray, vapors |
| | | P264 - Wash hands, forearms and face thoroughly after handling |
| | | P271 - Use only outdoors or in a well-ventilated area |
| | | P273 - Avoid release to the environment |
| | | P280 - Wear protective clothing, protective gloves |
| | | P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER |
| | | P302+P352 - If on skin: Wash with plenty of water |
| | | P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse |
| | | skin with water/shower |
| | | P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing |
| | | P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact |
| | | lenses, if present and easy to do. Continue rinsing |
| | | P308+P313 - If exposed or concerned: Get medical advice/attention |
| | | P312 - Call a doctor, a POISON CENTER if you feel unwell |
| | | P314 - Get medical advice/attention if you feel unwell |
| | | P321 - Specific treatment (see Hazardous component(s) for labeling on this label) |
| | | P331 - Do NOT induce vomiting |
| | | P332+P313 - If skin irritation occurs: Get medical advice/attention |
| | | P337+P313 - If eye irritation persists: Get medical advice/attention |
| | | P362+P364 - Take off contaminated clothing and wash it before reuse |
| | | P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry |
| | | extinguishing powder to extinguish |
| | | P403+P233 - Store in a well-ventilated place. Keep container tightly closed |
| | | P403+P235 - Store in a well-ventilated place. Keep cool |
| | | P405 - Store locked up |
| | | P501 - Dispose of contents/container to hazardous or special waste collection point, in |
| | | accordance with local, regional, national and/or international regulation |
| | | |

2.3. **Other hazards**

No additional information available

SECTION 3: Composition/Information on ingredients

Substances 3.1.

Not applicable

| 3 | .2 | • | | IV | X | tu |
|---|----|---|--|----|---|----|
| | | | | | | |

| 3.2. Mixtures | | | |
|--------------------------------|-----------------------------------------------------------------------------------------------------|-----------|------------------------------------------------------------------------------------------------------|
| Name | Product identifier | % | Classification according to Directive 67/548/EEC |
| N-NONANE UNLABELED | (CAS No) 111-84-2 (EC No) 203-913-4 | 59.990997 | R10 Xn; R20 Xn; R65 Xi; R36/38 R67 |
| TOLUENE UNLABELED | (CAS No) 108-88-3 (EC No) 203-625-9 (EC Index No) 601-021-00-3 (REACH-no) 01-2119471310-51 | 40 | F; R11 Xi; R38 Xn; R65 Repr.Cat.3; R62 Repr.Cat.3; R63 R67 N; R51/53 Xn; R48/20 |
| MIREX UNLABELED | (CAS No) 2385-85-5 (EC No) 219-196-6 (EC Index No) 602-077-00-1 | 0.001286 | Xn; R21/22 N; R50/53 |
| DECHLORANE PLUS ANTI UNLABELED | (CAS No) 135821-74-8 | 0.001286 | Xn; R20 N; R51/53 |
| DECHLORANE PLUS SYN UNLABELED | (CAS No) 135821-03-3 | 0.001286 | Muta.Cat.3; R68 T; R23 Xi; R37 N; R51/53 |
| HEXABROMOBENZENE UNLABELED | (CAS No) 87-82-1 (EC No) 201-773-9 (EC Index No) | 0.001286 | Xn; R20/21/22 Xi; R36/37/38 N; R50/53 |
| DECHLORANE 602 UNLABELED | (CAS No) 31107-44-5 | 0.001286 | Not classified |

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| Name | Product identifier | % | Classification according to Directive 67/548/EEC |
|----------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| TBPH (BIS(2-ETHYLHEXYL)TETRABROMOPHTHALATE) UNLABELED | (CAS No) 26040-51-7 | 0.001286 | Xi; R36/37/38 N; R51/53 |
| 1,4-DIBROMOBENZENE UNLABELED | (CAS No) 106-37-6 (EC No) 203-390-2 | 0.001286 | Xi; R36/37/38 N; R50/53 |
| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
| N-NONANE UNLABELED | (CAS No) 111-84-2 (EC No) 203-913-4 | 59.990997 | Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304 |
| TOLUENE UNLABELED | (CAS No) 108-88-3 (EC No) 203-625-9 (EC Index No) 601-021-00-3 (REACH-no) 01-2119471310-51 | 40 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 |
| MIREX UNLABELED | (CAS No) 2385-85-5 (EC No) 219-196-6 (EC Index No) 602-077-00-1 | 0.001286 | Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 Repr. 2, H361 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 |
| DECHLORANE PLUS ANTI UNLABELED | (CAS No) 135821-74-8 | 0.001286 | Acute Tox. 3 (Inhalation), H331 |
| DECHLORANE PLUS SYN UNLABELED | (CAS No) 135821-03-3 | 0.001286 | Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 STOT SE 2, H371 Aquatic Chronic 4, H413 |
| HEXABROMOBENZENE UNLABELED | (CAS No) 87-82-1 (EC No) 201-773-9 (EC Index No) | 0.001286 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 4, H413 |
| DECHLORANE 602 UNLABELED | (CAS No) 31107-44-5 | 0.001286 | Not classified |
| TBPH (BIS(2-ETHYLHEXYL)TETRABROMOPHTHALATE) UNLABELED | (CAS No) 26040-51-7 | 0.001286 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 2, H411 |
| 1,4-DIBROMOBENZENE UNLABELED | (CAS No) 106-37-6 (EC No) 203-390-2 | 0.001286 | Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Name | Product identifier | % | GHS-US classification |
| N-NONANE UNLABELED | (CAS No) 111-84-2 | 59.990997 | Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 Asp. Tox. 1, H304 |
| TOLUENE UNLABELED | (CAS No) 108-88-3 | 40 | Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401 |
| MIREX UNLABELED | (CAS No) 2385-85-5 | 0.001286 | Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Carc. 2, H351 Repr. 2, H361 Aquatic Acute 1, H400 |
| | | | Aquatic Chronic 1, H410 |
| DECHLORANE PLUS ANTI UNLABELED | (CAS No) 135821-74-8 | 0.001286 | Aquatic Chronic 1, H410 Acute Tox. 3 (Inhalation), H331 |

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| Name | Product identifier | % | GHS-US classification |
|----------------------------------------------------------|----------------------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DECHLORANE PLUS SYN UNLABELED | (CAS No) 135821-03-3 | 0.001286 | Acute Tox. 3 (Inhalation), H331 Skin Irrit. 2, H315 STOT SE 2, H371 Aquatic Acute 2, H401 Aquatic Chronic 4, H413 |
| HEXABROMOBENZENE UNLABELED | (CAS No) 87-82-1 | 0.001286 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Chronic 4, H413 |
| DECHLORANE 602 UNLABELED | (CAS No) 31107-44-5 | 0.001286 | Not classified |
| TBPH (BIS(2-ETHYLHEXYL)TETRABROMOPHTHALATE) UNLABELED | (CAS No) 26040-51-7 | 0.001286 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Chronic 2, H411 |
| 1,4-DIBROMOBENZENE UNLABELED | (CAS No) 106-37-6 | 0.001286 | Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |

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

| SECTION 4: First aid measures | |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4.1. Description of first aid measures | |
| First-aid measures general | : IF exposed or concerned: Get medical advice/attention. |
| First-aid measures after inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. |
| First-aid measures after skin contact | : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Wash with plenty of soap and water, Get immediate medical advice/attention. Get medical advice/attention. Specific treatment (see Hazard pictograms (CLP) on this label). |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Immediately call a poison center or doctor/physician. |
| 4.2. Most important symptoms and eff | fects, both acute and delayed |
| Symptoms/injuries | Suspected of damaging fertility. Suspected of damaging the unborn child (in contact with skin, if inhaled, if swallowed). May cause damage to organs (brain, kidneys, liver, urinary bladder) (in contact with skin, if inhaled, if swallowed). |
| Symptoms/injuries after inhalation | : Harmful if inhaled. May cause respiratory irritation. |
| Symptoms/injuries after skin contact | : Causes skin irritation. |
| Symptoms/injuries after eye contact | : Causes serious eye irritation. |
| Symptoms/injuries after ingestion | : May be fatal if swallowed and enters airways. Risk of lung edema. |
| 4.3. Indication of any immediate medi | cal attention and special treatment needed |
| No additional information available | |
| SECTION 5: Eirefighting measures | |

| SECTION 5: Firefighting measures | ures |
|-------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|
| 5.1. Extinguishing media | |
| Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide. Alcohol resistant foam. | |
| 5.2. Special hazards arising from | the substance or mixture |
| Fire hazard | : Highly flammable liquid and vapor. |
| Explosion hazard | : May form flammable/explosive vapor-air mixture. |
| Reactivity | : Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture. |
| 5.3. Advice for firefighters | |
| Firefighting instructions | : Do not enter fire area without proper protective equipment, including respiratory protection. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |

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| SECTION 6: Accidental release mea | sures |
|--------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | uipment and emergency procedures |
| General measures | : Remove ignition sources. Use special care to avoid static electric charges. No open flames. No smoking. |
| 6.1.1. For non-emergency personnel | |
| Emergency procedures | : Wear personal protective equipment. Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing fume, gas, mist, spray, vapors. Avoid contact with skin and eyes. |
| 6.1.2. For emergency responders | |
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
| 6.2. Environmental precautions | |
| Prevent entry to sewers and public waters. Avoid | |
| 6.3. Methods and material for containme | ent and cleaning up |
| For containment | : Dike and contain spill. Dispose as hazardous waste. Comply with local regulations for disposal. |
| Methods for cleaning up | : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. |
| Other information | : Dispose of materials or solid residues at an authorized site. |
| 6.4. Reference to other sections | |
| For further information refer to section 13. | |
| SECTION 7: Handling and storage | |
| 7.1. Precautions for safe handling | |
| Additional hazards when processed | : Avoid all contact with skin, eyes, or clothing. Keep away from sources of ignition - No smoking. Do not breathe gas/fumes/vapor/spray (appropriate wording to be specified by the manufacturer). Take precautionary measures against static discharges. Handle empty containers with care because residual vapors are flammable. |
| Precautions for safe handling | : No open flames. No smoking. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust, fume, gas, mist, spray, vapors. Use only outdoors or in a well-ventilated area. |
| Hygiene measures | : Wash hands, forearms and face thoroughly after handling. |
| 7.2. Conditions for safe storage, includi | ng any incompatibilities |
| Technical measures | Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof Lighting equipment, ventilating equipment. |
| Storage conditions | : Store at room temperature away from light and moisture. |
| Incompatible materials | : Heat sources. |
| 7.3. Specific end use(s) | |

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters** DECHLORANES AND BFR NATIVE STANDARD MIXTURE 10 UG/ML IN NONANE/TOLUENE Italy - Portugal - USA ACGIH 200.00000000 ppm 20 ppm ACGIH TWA (ppm) Italy - Portugal - USA ACGIH Remark (ACGIH) USA. ACGIH Threshold Limit Values (TLV). CNS impair. Visual impairment. Female reproductive. Pregnancy loss. 2015 Adoption. Substances for which there is a Biological Exposure Index or Indices (see BEI® section). Not classifiable as a human carcinogen.; Component: Toluene CAS-No.: 108-88-3 Parameters: Toluene Value: 0.0300 mg/l Biological specimen: Urine Remarks: End of shift (As soon as possible after exposure ceases) Basis: ACGIH -Biological Exposure Indices (BÉI); Component: Toluene CAS-No.: 108-88-3 Parameters: Toluene Value: 0.0200 mg/l Biological specimen: In blood Remarks: Prior to last shift of workweek Basis: ACGIH - Biological Exposure Indices (BEI); Component: Toluene CAS-No.: 108-88-3 Parameters: o-Cresol Value: 0.3000 mg/g Biological specimen: Urine Remarks: End of shift (As soon as possible after exposure ceases) Basis: ACGIH -Biological Exposure Indices (BEI)

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| DECHLORANES AND BFR N | ATIVE STANDARD MIXTURE 10 UG/ML IN | |
|------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 1050 mg/m³ 375 mg/m3 |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 200 ppm 100 ppm |
| USA NIOSH | NIOSH REL (STEL) (mg/m ³) | 560 mg/m ³ |
| USA NIOSH | NIOSH REL (STEL) (ppm) | 150 ppm |
| USA NIOSH | Remark (NIOSH) | Central Nervous System impairment. USA. NIOSH Recommended Exposure Limits. |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 1050 mg/m ³ 375 mg/m3 |
| USA OSHA | OSHA PEL (TWA) (ppm) | 200 ppm 100 ppm |
| USA OSHA | OSHA PEL (STEL) (mg/m ³) | 560 mg/m³ |
| USA OSHA | OSHA PEL (STEL) (ppm) | 150 ppm |
| USA OSHA | OSHA PEL (Ceiling) (mg/m ³) | 1050 mg/m ³ California permissible exposure limits for chemical contaminants. |
| USA OSHA | OSHA PEL (Ceiling) (ppm) | 200 ppm California permissible exposure limits for chemical contaminants. |
| USA OSHA | Remark (OSHA) | USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000. OSHA PEL (Ceiling) (ppm): 300 ppm USA Occupational Exposure Limits (OSHA) - Table Z-2. OSHA PEL (TWA) - 200 ppm - USA. Occupational Exposure Limits (OSHA) - Table Z-2. Remarks: Z37.12-1967. |
| TOLUENE UNLABELED (108 | 3-88-3) | |
| Italy - Portugal - USA ACGIH | ACGIH TWA (ppm) | 20.00000000 ppm USA. ACGIH Threshold Limit Values (TLV) |
| Italy - Portugal - USA ACGIH | Remark (ACGIH) | Visual impairment. Female reproductive. Pregnancy loss. 2015 Adoption. Substances for which there is a Biological Exposure Index or Indices (see BEI® section). Not classifiable as a human carcinogen.; Component: Toluene CAS-No.: 108-88-3 Parameters Toluene Value: 0.0300 mg/l Biological specimen: Urine Remarks: End of shift (As soon as possible after exposure ceases) Basis: ACGIH - Biological Exposure Indices (BEI); Component: Toluene CAS- No.: 108-88-3 Parameters: Toluene Value: 0.0200 mg/l Biological specimen: In blood Remarks: Prior t last shift of workweek Basis: ACGIH - Biological Exposure Indices (BEI); Component: Toluene CAS- No.: 108-88-3 Parameters: o-Cresol Value: 0.3000 mg/g Biological specimen: Urine Remarks: End of shift (As soon as possible after exposure ceases) Basis: ACGIH - Biological Exposure Indices (BEI) |
| USA NIOSH | NIOSH REL (TWA) (mg/m³) | 375 mg/m ³ USA. NIOSH Recommended Exposure Limits |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 100 ppm USA. NIOSH Recommended Exposure Limits |
| USA NIOSH | NIOSH REL (STEL) (mg/m ³) | 560 mg/m ³ USA. NIOSH Recommended Exposure Limits |
| USA NIOSH | NIOSH REL (STEL) (ppm) | 150 ppm USA. NIOSH Recommended Exposure Limits |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 375 mg/m ³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000 |
| USA OSHA | OSHA PEL (TWA) (ppm) | 100 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000 |
| USA OSHA | OSHA PEL (STEL) (mg/m³) | 560 mg/m ³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000 |
| USA OSHA | OSHA PEL (STEL) (ppm) | 150 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000 |
| USA OSHA | OSHA PEL (Ceiling) (ppm) | 300 ppm USA. Occupational Exposure Limits (OSHA) - Table Z-2 |

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| TOLUENE UNLABELED (108 | -88-3) | |
|-------------------------------|-----------------------------------------|-------------------------------------------------------------------------------------------------------------|
| USA OSHA | Remark (OSHA) | OSHA PEL (TWA) - 200 ppm - USA. Occupational Exposure Limits (OSHA) - Table Z-2. Remarks: Z37.12-1967 |
| N-NONANE UNLABELED (11 | 1-84-2) | · · · · |
| Italy - Portugal - USA ACGIH | ACGIH TWA (ppm) | 200.00000000 ppm USA. ACGIH Threshold Limit Values (TLV) |
| Italy - Portugal - USA ACGIH | Remark (ACGIH) | CNS impair |
| USA NIOSH | NIOSH REL (TWA) (mg/m ³) | 1050 mg/m ³ USA. NIOSH Recommended Exposure Limits |
| USA NIOSH | NIOSH REL (TWA) (ppm) | 200 ppm USA. NIOSH Recommended Exposure Limits |
| USA NIOSH | Remark (NIOSH) | Central Nervous System impairment |
| USA OSHA | OSHA PEL (TWA) (mg/m³) | 1050 mg/m ³ USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000 |
| USA OSHA | OSHA PEL (TWA) (ppm) | 200 ppm USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000 |
| USA OSHA | OSHA PEL (Ceiling) (mg/m ³) | 1050 California permissible exposure limits for chemical contaminants. |
| USA OSHA | OSHA PEL (Ceiling) (ppm) | 200 ppm California permissible exposure limits for chemical contaminants. |

- 8.2. **Exposure controls**
- Appropriate engineering controls

Personal protective equipment

: Ensure good ventilation of the work station. Handle in accordance with good industrial hygiene and safety procedures.

: Protective clothing. Protective goggles. Gloves. Self-contained breathing apparatus.

| Materials for protective clothing | : Wear suitable protective clothing and gloves. |
|-----------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| Hand protection | : protective gloves. |
| Eye protection | : Chemical goggles or face shield. Chemical goggles or safety glasses. |
| Skin and body protection | : Wear suitable protective clothing, gloves and eye/face protection. |
| Respiratory protection | : Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Approved respirator. |
| Environmental exposure controls | : Avoid release to the environment. |

SECTION 9: Physical and chemical properties

| 9.1. Information on basic physical an | d chemical properties | |
|---------------------------------------------|-------------------------------------|------|
| Physical state | : Liquid | |
| Appearance | : Liquid. | |
| Color | : Colorless. | |
| Odor | : No data available | |
| Odor threshold | : No data available | |
| рН | : No data available | |
| Relative evaporation rate (butyl acetate=1) | : No data available | |
| Melting point | : No data available | |
| Freezing point | : No data available | |
| Boiling point | : No data available | |
| Flash point | : No data available | |
| Auto-ignition temperature | : No data available | |
| Decomposition temperature | : No data available | |
| Flammability (solid, gas) | : Highly flammable liquid and vapor | |
| Vapor pressure | : No data available | |
| Relative vapor density at 20 °C | : No data available | |
| Relative density | : No data available | |
| 19/12/2017 | EN (English US) | 8/18 |
| | | |

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| 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 |
| Explosion limits | : No data available |
| | |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

10.2. Chemical stability

See storage and expiration date on CoA.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Heat. Open flame. Sparks. Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Inhalation: Harmful if inhaled.

| LD50 oral rat> 5580 mg/kgLD50 ormal rabbit12196 mg/kgLC50 inhalaton rat (mg/l)23760 mg/m³ male - 4 hATE CLP (gases)4500.000 pm/V/4hATE CLP (vapors)11.000 mg/U/4hATE CLP (dust, mist)1.500 mg/U/4hATE CLP (dust, mist)1.500 mg/U/4hAtic corrosion/inition, Dermal, ratResult: Skin Irritation (Draize Test)LC50, Inhalation, rat21.500 - 28.800 mg/m3 - 4 hAdditional information5. Typimurium Result: negativeMEREX UNLABELED (2385-85-5)5.LD50 oral rat235 mg/kgATE CLP (oral)235.000 mg/kg body weightATE CLP (dranal)300.000 mg/kg body weightATE CLP (grases)700.000 pmV/4hATE CLP (gases)700.000 pmV/4hATE CLP (gases)700.000 pmV/4hATE CLP (gases)700.000 pmV/4hATE CLP (uspors)3.000 mg/U4hATE CLP (uspors)3.000 mg/U5 body weightATE CLP (uspors)3.000 mg/U5 body weight <tr< th=""><th colspan="3">DECHLORANES AND BFR NATIVE STANDARD MIXTURE 10 UG/ML IN NONANE/TOLUENE</th></tr<> | DECHLORANES AND BFR NATIVE STANDARD MIXTURE 10 UG/ML IN NONANE/TOLUENE | | | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|---------------------------------------------|--|--|
| LC50 inhalation rat (mg/l) 23760 mg/m³ male - 4 h ATE CLP (gases) 4500.000 ppmV/4h ATE CLP (vapors) 11.000 mg/l/4h ATE CLP (dust, mist) 1.500 mg/l/4h Skin corrosion/irritation, Dermal, rat Result: Skin Irritation (Draize Test) LC50, Inhalation, rat 12,500 - 28,800 mg/m3 - 4 h Additional information : S. Typhimurium Result: negative MIREX UNLABELED (2385-85-5) ID500 raf rat LD50 oral rat 235 mg/kg ATE CLP (coral) 235.000 mg/kg body weight ATE CLP (coral) 235.000 mg/kg body weight ATE CLP (dermal) 300.000 mg/kg body weight DECHLORANE PLUS ANTI UNLABELED (135227748) Intercept (1352774787) ATE CLP (gases) 700.000 ppmV/4h ATE CLP (gases) 3000 mg/kg body weight DECHLORANE PLUS SYN UNLABELED (13527748) Intercept (13527748) ATE CLP (gases) 700.000 ppmV/4h ATE CLP (dust, mist) 0.500 mg/kg body weight ATE CLP (du | LD50 oral rat | > 5580 mg/kg | | |
| ATE CLP (gases) 4500.000 pmV/4h ATE CLP (vapors) 11.000 mg/l/4h ATE CLP (dust, mist) 1.500 mg/l/4h Skin corrosion/irritation, Dermal, rat Result: Skin Irritation (Draize Test) LC50, Inhalation, rat 12,500 - 28,800 mg/m3 - 4 h Additional information : S. Typhimurium Result: negative MIREX UNLABELED (2385-85-5) | LD50 dermal rabbit | 12196 mg/kg | | |
| ATE CLP (vapors) 11.000 mg/l/4h ATE CLP (dust, mist) 1.500 mg/l/4h Skin corrosion/irritation, Dermal, rat Result: Skin Irritation (Draize Test) LC50, Inhalation, rat 12,500 - 28,800 mg/m3 - 4 h Additional information : S. Typhimurium Result: negative MIREX UNLABELED (2385-85-5) | LC50 inhalation rat (mg/l) | 23760 mg/m ³ male - 4 h | | |
| ATE CLP (dust, mist) 1.500 mg/l/4h Skin corrosion/irritation, Dermal, rat Result: Skin Irritation (Draize Test) LC50, Inhalation, rat 12,500 - 28,800 mg/m3 - 4 h Additional information : S. Typhimurium Result: negative MIREX UNLABELED (2385-85-5) | ATE CLP (gases) | 4500.000 ppmV/4h | | |
| Skin corosion/irritation, Dermal, ratResult: Skin Irritation (Draize Test)LC50, Inhalation, rat12,500 - 28,800 mg/m3 - 4 hAdditional information: S. Typhimurium Result: negativeMIREX UNLABELED (2385-85-5)Image: Corosion mg/kgLD50 oral rat235 mg/kgATE CLP (oral)235.000 mg/kg body weightATE CLP (dermal)300.000 mg/kg body weightDECHLORANE PLUS ANTI UNLABELED (13582+1-74-8)ATE CLP (gases)700.000 pmV/4hATE CLP (gases)700.000 mg/kg body weightATE CLP (ust, mist)0.500 mg/l/4hATE CLP (dust, mist)0.500 mg/l/4hATE CLP (gases)700.000 ppmV/4hATE CLP (gases)700.000 ppmV/4hATE CLP (gases)700.000 ppmV/4hATE CLP (dust, mist)0.500 mg/l/4hATE CLP (gases)700.000 ppmV/4hATE CLP (gases)3.000 mg/l/4hATE CLP (ust, mist)0.500 mg/kg body weightATE CLP (oral)500.000 mg/kg body weightATE CLP (oral)500.000 mg/kg body weight | ATE CLP (vapors) | 11.000 mg/l/4h | | |
| LC50, Inhalation, rat12,500 - 28,800 mg/m3 - 4 hAdditional information: S. Typhimurium Result: negativeMIREX UNLABELED (2385-85-5)LD50 oral rat235 mg/kgATE CLP (oral)235.000 mg/kg body weightATE CLP (dermal)300.000 mg/kg body weightDECHLORANE PLUS ANTI UNLABELED (1352)-74-8)ATE CLP (gases)700.000 ppmV/4hATE CLP (gases)700.000 ppmV/4hATE CLP (vapors)3.000 mg/l/4hATE CLP (dust, mist)0.500 mg/l/4hDECHLORANE PLUS SYN UNLABELED (1352)-70-30)700.000 ppmV/4hATE CLP (gases)700.000 ppmV/4hATE CLP (dust, mist)0.500 mg/l/4hDECHLORANE PLUS SYN UNLABELED (1352)-70-30)700.000 ppmV/4hATE CLP (dust, mist)0.500 mg/l/4hATE CLP (oral)25 50.000 mg/kg body weightATE CLP (oral)100.000 mg/kg body weight | ATE CLP (dust, mist) | 1.500 mg/l/4h | | |
| Additional information: S. Typhimurium Result: negativeMIREX UNLABELED (2385-85-5)LD50 oral rat235 mg/kgATE CLP (oral)235.000 mg/kg body weightATE CLP (dermal)300.000 mg/kg body weightDECHLORANE PLUS ANTI UNLABELED (1352±-74-8)ATE CLP (gases)700.000 ppmV/4hATE CLP (gases)700.000 ppmV/4hATE CLP (uspors)3.000 mg//4hATE CLP (dust, mist)0.500 mg//4hDECHLORANE PLUS SYN UNLABELED (1352±-03-3)ATE CLP (gases)700.000 ppmV/4hATE CLP (gases)700.000 ppmV/4hATE CLP (uspors)3.000 mg//4hATE CLP (uspors)0.500 mg//4hHEXABROMOBENZENE UNLABELED (87-82-1)LD50 oral rat225 mg/kgATE CLP (oral)500.000 mg/kg body weightATE CLP (oral)1100.000 mg/kg body weight | Skin corrosion/irritation, Dermal, rat | Result: Skin Irritation (Draize Test) | | |
| MIREX UNLABELED (2385-85-5) LD50 oral rat 235 mg/kg ATE CLP (oral) 235.000 mg/kg body weight ATE CLP (dermal) 300.000 mg/kg body weight DECHLORANE PLUS ANTI UNLABELED (1352-74-8) Image: Comparison of the compa | LC50, Inhalation, rat | 12,500 - 28,800 mg/m3 - 4 h | | |
| LD50 oral rat 235 mg/kg ATE CLP (oral) 235.000 mg/kg body weight ATE CLP (dermal) 300.000 mg/kg body weight DECHLORANE PLUS ANTI UNLABELED (13527-74-8) ATE CLP (gases) 700.000 ppmV/4h ATE CLP (vapors) 3.000 mg//4h ATE CLP (dust, mist) 0.500 mg//4h DECHLORANE PLUS SYN UNLABELED (13527-03-3) ATE CLP (gases) 700.000 ppmV/4h ATE CLP (quors) 3.000 mg//4h ATE CLP (gases) 700.000 ppmV/4h ATE CLP (quors) 3.000 mg//4h ATE CLP (quors) 3.000 mg//4h ATE CLP (dust, mist) 0.500 mg//4h ATE CLP (quors) 3.000 mg//4h ATE CLP (dust, mist) 0.500 mg//4h HEXABROMOBENZENE UNLABELED (87-82-1 LD50 oral rat 225 mg/kg ATE CLP (oral) 500.000 mg/kg body weight ATE CLP (oral) 500.000 mg/kg body weight | Additional information | : S. Typhimurium Result: negative | | |
| ATE CLP (oral) 235.000 mg/kg body weight ATE CLP (dermal) 300.000 mg/kg body weight DECHLORANE PLUS ANTI UNLABELED (135 | MIREX UNLABELED (2385-85-5) | | | |
| ATE CLP (dermal) 300.000 mg/kg body weight DECHLORANE PLUS ANTI UNLABELED (135821-74-8) ATE CLP (gases) 700.000 ppmV/4h ATE CLP (vapors) 3.000 mg//4h ATE CLP (vapors) 3.000 mg//4h ATE CLP (dust, mist) 0.500 mg//4h ATE CLP (gases) ATE CLP (gases | LD50 oral rat | 235 mg/kg | | |
| DECHLORANE PLUS ANTI UNLABELED (135821-74-8)ATE CLP (gases)700.000 ppmV/4hATE CLP (vapors)3.000 mg//4hATE CLP (dust, mist)0.500 mg//4hDECHLORANE PLUS SYN UNLABELED (135821-03-3)ATE CLP (gases)700.000 ppmV/4hATE CLP (gases)700.000 ppmV/4hATE CLP (vapors)3.000 mg//4hATE CLP (dust, mist)0.500 mg//4hHEXABROMOBENZENE UNLABELED (87-82-'LD50 oral rat225 mg/kgATE CLP (oral)500.000 mg/kg body weightATE CLP (dermal)1100.000 mg/kg body weight | ATE CLP (oral) | 235.000 mg/kg body weight | | |
| ATE CLP (gases) 700.000 ppmV/4h ATE CLP (vapors) 3.000 mg//4h ATE CLP (dust, mist) 0.500 mg//4h DECHLORANE PLUS SYN UNLABELED (1352:1-03-3) 700.000 ppmV/4h ATE CLP (gases) 700.000 ppmV/4h ATE CLP (uspors) 3.000 mg//4h ATE CLP (uspors) 3.000 mg//4h ATE CLP (dust, mist) 0.500 mg//4h ATE CLP (dust, mist) 100.000 mg/kg body weight ATE CLP (oral) 500.000 mg/kg body weight | ATE CLP (dermal) | 300.000 mg/kg body weight | | |
| ATE CLP (vapors) 3.000 mg/l/4h ATE CLP (dust, mist) 0.500 mg/l/4h DECHLORANE PLUS SYN UNLABELED (13521-03-3) 3.000 mg/l/4h ATE CLP (gases) 700.000 ppmV/4h ATE CLP (vapors) 3.000 mg/l/4h ATE CLP (dust, mist) 0.500 mg/l/4h ATE CLP (dust, mist) 0.500 mg/l/4h HEXABROMOBENZENE UNLABELED (87-82-1) 1.0000 mg/l/4h LD50 oral rat 225 mg/kg ATE CLP (oral) 500.000 mg/kg body weight ATE CLP (dermal) 1100.000 mg/kg body weight | DECHLORANE PLUS ANTI UNLABELED (1358 | 321-74-8) | | |
| ATE CLP (dust, mist)0.500 mg/l/4hDECHLORANE PLUS SYN UNLABELED (135821-03-3)ATE CLP (gases)700.000 ppmV/4hATE CLP (vapors)3.000 mg/l/4hATE CLP (dust, mist)0.500 mg/l/4hATE CLP (dust, mist)0.500 mg/l/4hDECAMOBENZENE UNLABELED (87-82-1)LD50 oral rat225 mg/kgATE CLP (oral)500.000 mg/kg body weightATE CLP (dermal)1100.000 mg/kg body weight | ATE CLP (gases) | 700.000 ppmV/4h | | |
| OCCUPUID SYN UNLABELED (135821-03-3)ATE CLP (gases)700.000 ppmV/4hATE CLP (vapors)3.000 mg/l/4hATE CLP (dust, mist)0.500 mg/l/4hHEXABROMOBENZENE UNLABELED (87-82-1)LD50 oral rat225 mg/kgATE CLP (oral)500.000 mg/kg body weightATE CLP (dermal)1100.000 mg/kg body weight | ATE CLP (vapors) | 3.000 mg/l/4h | | |
| ATE CLP (gases) 700.000 ppmV/4h ATE CLP (vapors) 3.000 mg/l/4h ATE CLP (dust, mist) 0.500 mg/l/4h HEXABROMOBENZENE UNLABELED (87-82-) LD50 oral rat 225 mg/kg ATE CLP (oral) 500.000 mg/kg body weight ATE CLP (dermal) 1100.000 mg/kg body weight | ATE CLP (dust, mist) | 0.500 mg/l/4h | | |
| ATE CLP (vapors)3.000 mg//4hATE CLP (dust, mist)0.500 mg//4hHEXABROMOBENZENE UNLABELED (87-82-1)LD50 oral rat225 mg/kgATE CLP (oral)500.000 mg/kg body weightATE CLP (dermal)1100.000 mg/kg body weight | DECHLORANE PLUS SYN UNLABELED (1358 | DECHLORANE PLUS SYN UNLABELED (135821-03-3) | | |
| ATE CLP (dust, mist) 0.500 mg/l/4h HEXABROMOBENZENE UNLABELED (87-82-1) LD50 oral rat 225 mg/kg ATE CLP (oral) 500.000 mg/kg body weight ATE CLP (dermal) 1100.000 mg/kg body weight | ATE CLP (gases) | 700.000 ppmV/4h | | |
| HEXABROMOBENZENE UNLABELED (87-82-1) LD50 oral rat 225 mg/kg ATE CLP (oral) 500.000 mg/kg body weight ATE CLP (dermal) 1100.000 mg/kg body weight | ATE CLP (vapors) | 3.000 mg/l/4h | | |
| LD50 oral rat 225 mg/kg ATE CLP (oral) 500.000 mg/kg body weight ATE CLP (dermal) 1100.000 mg/kg body weight | ATE CLP (dust, mist) | 0.500 mg/l/4h | | |
| ATE CLP (oral) 500.000 mg/kg body weight ATE CLP (dermal) 1100.000 mg/kg body weight | HEXABROMOBENZENE UNLABELED (87-82-1) | | | |
| ATE CLP (dermal) 1100.000 mg/kg body weight | LD50 oral rat | 225 mg/kg | | |
| | ATE CLP (oral) | | | |
| ATE CLP (gases) 4500.000 ppmV/4h | ATE CLP (dermal) | 1100.000 mg/kg body weight | | |
| | ATE CLP (gases) | 4500.000 ppmV/4h | | |

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| HEXABROMOBENZENE UNLABELED (87-82- | | |
|-----------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| ATE CLP (vapors) | 11.000 mg/l/4h | |
| ATE CLP (dust, mist) | 1.500 mg/l/4h | |
| DECHLORANE 602 UNLABELED (31107-44-5) | | |
| LD50 oral rat | > | |
| LD50 dermal rabbit | > | |
| LC50 inhalation rat (mg/l) | > 2250 mg/m ³ | |
| TOLUENE UNLABELED (108-88-3) | | |
| LD50 oral rat | > 5580 mg/kg | |
| LD50 dermal rabbit | 12196 mg/kg | |
| LC50 inhalation rat (mg/l) | 12,500 - 28,800 mg/m3 - 4 h | |
| ATE CLP (dermal) | 12196.000 mg/kg body weight | |
| ATE CLP (vapors) | 12.500 mg/l/4h | |
| ATE CLP (dust, mist) | 12.500 mg/l/4h | |
| N-NONANE UNLABELED (111-84-2) | | |
| LC50 inhalation rat (mg/l) | 23760 mg/m ³ male - 4 h | |
| ATE CLP (gases) | 3200.000 ppmV/4h | |
| ATE CLP (vapors) | 11.000 mg/l/4h | |
| ATE CLP (dust, mist) | 23.760 mg/l/4h | |
| Skin corrosion/irritation, Dermal, rat | Result: Skin Irritation (Draize Test) | |
| Additional information | : S. Typhimurium Result: negative | |
| 1,4-DIBROMOBENZENE UNLABELED (106-37 | /-6) | |
| LD50 oral | 3120 mg/kg mouse | |
| Skin corrosion/irritation | : Causes skin irritation. | |
| | Skin rabbit Courses skin initiation | |
| Serious eye damage/irritation | Causes skin irritation 24 Hours | |
| Senous eye damage/imation | : Causes serious eye irritation. | |
| | Eyes rabbit | |
| | No eye irritation (OECD 405 method) | |
| Respiratory or skin sensitization | : Not classified | |
| Germ cell mutagenicity | : Rat. liver. DNA Damage | |
| Carcinogenicity | : Not classified | |
| Reproductive toxicity | : Damage to fetus possible. Suspected human reproductive toxicant. Reproductive toxicity - Rat - Inhalation. Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count). Experiments have shown reproductive toxicity effects in male and female laboratory animals. Developmental Toxicity - Rat - Oral. Effects on Embryo or Fetus: | |
| _ | Fetotoxicity (except death, e.g, stunted fetus). | |
| Specific target organ toxicity – single exposure | : May cause drowsiness or dizziness. | |
| | May cause drowsiness or dizziness | |
| Specific target organ toxicity – repeated exposure | : May cause damage to organs (brain, kidneys, liver, urinary bladder) through prolonged or repeated exposure (if inhaled, if swallowed, in contact with skin). | |
| | No data available | |
| N-NONANE UNLABELED (111-84-2) | | |
| NOAEL (oral,rat,90 days) | 100 mg/kg bodyweight/day female (OECD Test Guildeline 408) | |
| Aspiration hazard | : May be fatal if swallowed and enters airways. | |
| Potential Adverse human health effects and symptoms | : Symptoms/injuries. IF INHALED: lungs. Pulmonary irritation. Pulmonary edema. Chest pain. Central Nervous System. 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. Stomach - Irregularities - Based on Human Evidence. Lung irritation, chest pain, pulmonay edema, Inhalation sudies have shown the development of inflammatory and ulcerous lesions of the penis, prepuce, and scrotom in animals. | |
| IARC group | : 3 | |
| Symptoms/injuries after inhalation | : Harmful if inhaled. May cause respiratory irritation. | |

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| Symptoms/injuries after skin contact | : Causes skin irritation. |
|--------------------------------------|---------------------------------------------------------------------|
| Symptoms/injuries after eye contact | : Causes serious eye irritation. |
| Symptoms/injuries after ingestion | : May be fatal if swallowed and enters airways. Risk of lung edema. |

| SECTION 12: Ecological information | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------|--|--|
| 12.1. Toxicity | | | |
| Ecology - general | Toxic to bees. | | |
| Ecology - water | Toxic to aquatic life. | | |
| DECHLORANES AND BFR NATIVE STANDARD MIXTURE 10 UG/ML IN NONANE/TOLUENE | | | |
| EC50 Daphnia 1 | 0.2 mg/l static test - Daphnia magna (Water flea) - 48 h | | |
| EC50 other aquatic organisms 1 | 6 mg/l Daphnia magna (Water flea) - Immobilization - 48 h | | |
| LC50 fish 2 | 7.63 mg/l Oncorhynchus mykiss (Rainbow trout) - 96 h | | |
| EC50 Daphnia 2 | 8 mg/l Daphnia magna (Water flea) - 24 h | | |
| ErC50 (algae) | 245 mg/l Chlorella vulgaris (Fresh water algae) - 24 h | | |
| ErC50 (other aquatic plants) | 10 mg/l Pseudokirchneriella subcapitata (Green algae) - 24 h | | |
| NOEC (chronic) | 5.44 mg/l Pimephales promelas (fathead minnow) - 7 d | | |
| MIREX UNLABELED (2385-85-5) | | | |
| LC50 fish 1 | 0.023 mg/l Oncorhynchus mykiss (rainbow trout) -96h | | |
| EC50 Daphnia 1 | 2.6 mg/l Daphnia magna (Water flea) -2.6mg/L-48h | | |
| TOLUENE UNLABELED (108-88-3) | | | |
| EC50 Daphnia 1 | 8 mg/l Daphnia magna (Water flea) - 24h | | |
| LC50 fish 2 | 7.63 mg/l Oncorhynchus mykiss (Rainbow trout) - 96 h | | |
| EC50 Daphnia 2 | 6 mg/l Daphnia magna (Water flea) - Immobilization - 48 h | | |
| ErC50 (algae) | 245 mg/l Chlorella vulgaris (Fresh water algae) - 24 h | | |
| ErC50 (other aquatic plants) | 10 mg/l Pseudokirchneriella subcapitata (Green algae) - 24 h | | |
| NOEC (chronic) | 5.44 mg/l Pimephales promelas (fathead minnow) - 7 d | | |
| N-NONANE UNLABELED (111-84-2) | | | |
| EC50 Daphnia 1 | 0.2 mg/l static test EC50 - Daphnia magna (Water flea) - 48 h | | |
| 1,4-DIBROMOBENZENE UNLABELED (106-37 | -6) | | |
| LC50 fish 1 | 0.68 mg/l Poecilia reticulata (guppy) - 96 h | | |
| 12.2. Persistence and degradability | | | |
| | | | |
| DECHLORANES AND BFR NATIVE STANDARD MIXTURE 10 UG/ML IN NONANE/TOLUENE Persistence and degradability May cause long-term adverse effects in the environment. | | | |
| Biodegradation | Readily biodegradable. | | |
| | | | |
| DECHLORANE PLUS ANTI UNLABELED (135821-74-8) | | | |
| Persistence and degradability Not available. | | | |
| DECHLORANE PLUS SYN UNLABELED (1358 | | | |
| Persistence and degradability | Not available. May cause long-term adverse effects in the environment. | | |
| HEXABROMOBENZENE UNLABELED (87-82-1 | | | |
| Persistence and degradability | May cause long-term adverse effects in the environment. | | |
| DECHLORANE 602 UNLABELED (31107-44-5) | | | |
| Persistence and degradability | Persistent in the environment. | | |
| TBPH (BIS(2-ETHYLHEXYL)TETRABROMOPH | TBPH (BIS(2-ETHYLHEXYL)TETRABROMOPHTHALATE) UNLABELED (26040-51-7) | | |
| Persistence and degradability | May cause long-term adverse effects in the environment. | | |
| TOLUENE UNLABELED (108-88-3) | | | |
| Persistence and degradability | Readily biodegradable. | | |
| 1,4-DIBROMOBENZENE UNLABELED (106-37-6) | | | |
| Persistence and degradability | Not available. | | |
| 12.3. Bioaccumulative potential | | | |
| DECHLORANES AND BFR NATIVE STANDARD MIXTURE 10 UG/ML IN NONANE/TOLUENE | | | |
| BCF fish 1 | 0.05 mg/l Leuciscus idus (Golden orfe) - 3 d | | |
| Bioconcentration factor (BCF REACH) | 90 | | |
| Bioaccumulative potential | Indication of bioaccumulation. | | |
| · · · · · · · · · · · · · · · · · · · | | | |
| 19/12/2017 | EN (English US) 11/18 | | |

IN NONANE/TOLUENE ES-5606

Safety Data Sheet

Class (DOT)

19/12/2017

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| 0, 2012 / Rules and Regulations | | | |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| MIREX UNLABELED (2385-85-5) | | | |
| Bioconcentration factor (BCF REACH) | 18100 | | |
| Log Pow | 5.28 | | |
| Bioaccumulative potential | Bioaccumulative potential: Pimephales promelas (fathead minnow)- 32d. | | |
| DECHLORANE PLUS ANTI UNLABELED (135 | DECHLORANE PLUS ANTI UNLABELED (135821-74-8) | | |
| Bioaccumulative potential | Not available. | | |
| DECHLORANE PLUS SYN UNLABELED (135 | | | |
| Bioaccumulative potential | Not available. | | |
| | | | |
| HEXABROMOBENZENE UNLABELED (87-82 | | | |
| Log Pow | 6.278 | | |
| DECHLORANE 602 UNLABELED (31107-44-5 | | | |
| Bioaccumulative potential | If released in water, this material is expected to preferentially absorb to sediment. The photodegradation half-life is over 24 years. The material is resistant to biodegradation by aerobic and anaerobic bacteria. | | |
| TOLUENE UNLABELED (108-88-3) | | | |
| BCF fish 1 | 0.05 mg/l Leuciscus idus (Golden orfe) - 3 d | | |
| Bioconcentration factor (BCF REACH) | 90 | | |
| N-NONANE UNLABELED (111-84-2) | | | |
| Log Pow | 5.65 | | |
| Bioaccumulative potential | Indication of bioaccumulation. | | |
| 1,4-DIBROMOBENZENE UNLABELED (106-3 | 7-6) | | |
| Bioconcentration factor (BCF REACH) | 30.8 ug/l - 220 Gambusia affinis (Mosquito fish) - 96 h | | |
| Bioaccumulative potential | 30.8 ug/l Gambusia affinis (Mosquito fish) - 96 h | | |
| 12.4. Mobility in soil | | | |
| DECHLORANE PLUS ANTI UNLABELED (135 | j821-74-8) | | |
| Ecology - soil | Not available. | | |
| DECHLORANE PLUS SYN UNLABELED (135 | 5821-03-3) | | |
| Ecology - soil | Not available. | | |
| DECHLORANE 602 UNLABELED (31107-44-5 | | | |
| Ecology - soil | Not available. | | |
| 1,4-DIBROMOBENZENE UNLABELED (106-3) | 7-6) | | |
| Ecology - soil | Not available. | | |
| | | | |
| 12.5. Results of PBT and vPvB assessmer | | | |
| TOLUENE UNLABELED (108-88-3) | | | |
| PBT: not relevant – no registration required | | | |
| 12.6. Other adverse effects | | | |
| Other adverse effects | : Disposal must be done according to official regulations. Avoid release to the environment. | | |
| SECTION 13: Disposal consideration | s | | |
| 13.1. Waste treatment methods | | | |
| Regional legislation (waste) | : Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations. | | |
| Product/Packaging disposal recommendations: | : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. | | |
| Additional information | : Handle empty containers with care because residual vapors are flammable. | | |
| Ecology - waste materials | Dispose of as unused product. | | |
| | | | |
| SECTION 14: Transport information | | | |
| In accordance with ADR / RID / IMDG / IATA / AD |)N | | |
| 14.1. UN number | | | |
| UN-No.(DOT) | : 1294 | | |
| DOT NA no. | UN1294 | | |
| 14.2. UN proper shipping name | | | |
| Proper Shipping Name (DOT) | : Toluene | | |
| Class (DOT) | · 3 - Class 3 - Flammable and combustible liquid 49 CFR 173 120 | | |

: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

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| Hazard labels (DOT) | : 3 - Flammable liquid |
|---------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | FLAMMABLE LOUID |
| | 3 |
| Packing group (DOT) | : II - Medium Danger |
| DOT Special Provisions (49 CFR 172.102) | IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). 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. T4 - 2.65 178.274(d)(2) Normal |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : 150 |
| DOT Packaging Non Bulk (49 CFR 173.xxx) | : 202 |
| DOT Packaging Bulk (49 CFR 173.xxx) 14.3. Additional information | : 242 |
| Emergency Response Guide (ERG) Number | : 130 |
| Other information | : No supplementary information available. |
| Other mormation | . No supplementary mormation available. |
| Overland transport | |
| Packing group (ADR) Class (ADR) | : II : 3 - Flammable liquid |
| Hazard identification number (Kemler No.) | |
| Classification code (ADR) | : F1 |
| Hazard labels (ADR) | : 3 - Flammable liquids |
| | |
| Orange plates | 33 1294 |
| Tunnel restriction code (ADR) | : D/E |
| Limited quantities (ADR) | 1 |
| | : 3YE |
| Excepted quantities (ADR) | : E2 |
| Transport by sea | |
| DOT Vessel Stowage Location | : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" of passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded. |
| MFAG-No | : 130 |
| Air transport | |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 5L |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | : 60 L |
| Civil Aeronautics Law | : Flammable liquids |
| 14.4. Environmental hazards | |
| Other information | : No supplementary information available. |
| 14.5. Special precautions for user | |
| 14.6. Transport in bulk according to Anne | ex II of MARPOL 73/78 and the IBC Code |
| Not applicable | |

IN NONANE/TOLUENE ES-5606

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| SECTION 15: Regulatory information | | | |
|---------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--|--|
| 15.1. US Federal regulations | | | |
| DECHLORANES AND BFR NATIVE STANDAR | D MIXTURE 10 UG/ML IN NONANE/TOLUENE | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | Not subject to reporting requirements of the United States SARA Section 302. | | |
| SARA Section 311/312 Hazard Classes | Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard | | |
| SARA Section 313 - Emission Reporting | Subject to reporting requirements of the United States SARA Section 313. | | |
| MIREX UNLABELED (2385-85-5) | | | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | Not subject to reporting requirements of the United States SARA Section 302. | | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Delayed (chronic) health hazard | | |
| SARA Section 313 - Emission Reporting | Not subject to reporting requirements of the United States SARA Section 313. | | |
| DECHLORANE PLUS ANTI UNLABELED (1358 | 21-74-8) | | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | Not subject to reporting requirements of the United States SARA Section 302. | | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Delayed (chronic) health hazard | | |
| SARA Section 313 - Emission Reporting | Not subject to reporting requirements of the United States SARA Section 313. | | |
| DECHLORANE PLUS SYN UNLABELED (1358 | | | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. | | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Delayed (chronic) health hazard | | |
| SARA Section 313 - Emission Reporting | Not subject to reporting requirements of the United States SARA Section 313 | | |
| HEXABROMOBENZENE UNLABELED (87-82-1 | | | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | Not subject to reporting requirements of the United States SARA Section 302. | | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard | | |
| SARA Section 313 - Emission Reporting | Not subject to reporting requirements of the United States SARA Section 313. | | |
| DECHLORANE 602 UNLABELED (31107-44-5) | | | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | Not subject to reporting requirements of the United States SARA Section 302. | | |
| SARA Section 311/312 Hazard Classes | Delayed (chronic) health hazard | | |
| SARA Section 313 - Emission Reporting | Not subject to reporting requirements of the United States SARA Section 313. | | |
| TBPH (BIS(2-ETHYLHEXYL)TETRABROMOPH | | | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | Not subject to reporting requirements of the United States SARA Section 302 | | |
| SARA Section 313 - Emission Reporting | Not subject to reporting requirements of the United States SARA Section 313 | | |
| TOLUENE UNLABELED (108-88-3) | and Control Act inventory | | |
| Listed on the United States TSCA (Toxic Substar CERCLA RQ | 1000 lb | | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III. Section 302 | | |
| SARA Section 311/312 Hazard Classes | Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard | | |
| SARA Section 313 - Emission Reporting | Subject to reporting requirements of United States SARA Section 313 | | |
| N-NONANE UNLABELED (111-84-2) | | | |
| Listed on the United States TSCA (Toxic Substan | ces Control Act) inventory | | |
| EPA TSCA Regulatory Flag | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA. | | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | Not subject to reporting requirements of the United States SARA Section 302. | | |
| SARA Section 311/312 Hazard Classes | Fire hazard Immediate (acute) health hazard | | |
| SARA Section 313 - Emission Reporting | Not subject to reporting requirements of the United States SARA Section 313. | | |

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| 1,4-DIBROMOBENZENE UNLABELED (106-37-6) | | |
|-------------------------------------------------------|-----------------------------------------------------------------------------|--|
| SARA Section 302 Threshold Planning Quantity (TPQ) | Not subject to reporting requirements of the United States SARA Section 302 | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard Delayed (chronic) health hazard | |
| SARA Section 313 - Emission Reporting | Not subject to reporting requirements of the United States SARA Section 313 | |
| 15.2. International regulations | | |

CANADA

| DECHLORANES AND BFR NATIVE STANDARD MIXTURE 10 UG/ML IN NONANE/TOLUENE | |
|------------------------------------------------------------------------|--|
| Listed on the Canadian DSL (Domestic Substances List) | |
| TOLUENE UNLABELED (108-88-3) | |
| Listed on the Canadian DSL (Domestic Substances List) | |
| N-NONANE UNLABELED (111-84-2) | |
| Listed on the Canadian DSL (Domestic Substances List) | |

15.2.1. National regulations

N-NONANE UNLABELED (111-84-2)

15.3. US State regulations

| 15.3. US State regulations | | | | |
|----------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------|
| DECHLORANES AND BFR | NATIVE STANDARD MIXT | URE 10 UG/ML IN NONANE/T | OLUENE | |
| U.S California - Propositio | n 65 - Carcinogens List | No | | |
| U.S California - Propositio Toxicity | n 65 - Developmental | Yes | | |
| U.S California - Propositio Toxicity - Female | n 65 - Reproductive | No | | |
| U.S California - Propositio Toxicity - Male | n 65 - Reproductive | No | | |
| State or local regulations | | U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S Delaware - Pollutant Discharge Requirements - Reportable Quantities U.S New Jersey - Right to Know Hazardous Substance List U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances | | |
| MIREX UNLABELED (2385 | -85-5) | | | |
| U.S California - Proposition 65 - Carcinogens List | U.S California - Proposition 65 - Developmental Toxicity | U.S California - Proposition 65 - Reproductive Toxicity - Female | U.S California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |
| DECHLORANE PLUS ANTI UNLABELED (135821-74-8) | | | | |
| U.S California - Proposition 65 - Carcinogens List | U.S California - Proposition 65 - Developmental Toxicity | U.S California - Proposition 65 - Reproductive Toxicity - Female | U.S California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |
| DECHLORANE PLUS SYN | UNLABELED (135821-03-3 | 3) | | |
| U.S California - Proposition 65 - Carcinogens List | U.S California - Proposition 65 - Developmental Toxicity | U.S California - Proposition 65 - Reproductive Toxicity - Female | U.S California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |

| Yes | Yes | Yes | Yes | |
|----------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------|
| HEXABROMOBENZENE UNLABELED (87-82-1) | | | | |
| U.S California - Proposition 65 - Carcinogens List | U.S California - Proposition 65 - Developmental Toxicity | U.S California - Proposition 65 - Reproductive Toxicity - Female | U.S California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |

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| DECHLORANE 602 UNLA | | | | |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------|---------------------------------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------|
| U.S California - | U.S California - | U.S California - | U.S California - | No significant risk level |
| Proposition 65 - Carcinogens List | Proposition 65 - Developmental Toxicity | Proposition 65 - Reproductive Toxicity - Female | Proposition 65 - Reproductive Toxicity - Male | (NSRL) |
| No | No | No | No | |
| | • | TE) UNLABELED (26040-51-7 | • | |
| U.S California - Proposition 65 - Carcinogens List | U.S California - Proposition 65 - Developmental Toxicity | U.S California - Proposition 65 - Reproductive Toxicity - Female | U.S California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |
| TOLUENE UNLABELED (1 | 08-88-3) | | | |
| U.S California - Proposition 65 - Carcinogens List | U.S California - Proposition 65 - Developmental Toxicity | U.S California - Proposition 65 - Reproductive Toxicity - Female | U.S California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | Yes | No | No | |
| N-NONANE UNLABELED | | | | F |
| U.S California - Proposition 65 - Carcinogens List | U.S California - Proposition 65 - Developmental Toxicity | U.S California - Proposition 65 - Reproductive Toxicity - Female | U.S California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |
| 1,4-DIBROMOBENZENE U | | - | | |
| U.S California - Proposition 65 - Carcinogens List | U.S California - Proposition 65 - Developmental Toxicity | U.S California - Proposition 65 - Reproductive Toxicity - Female | U.S California - Proposition 65 - Reproductive Toxicity - Male | No significant risk level (NSRL) |
| No | No | No | No | |
| MIREX UNLABELED (2385 | 5-85-5) | | | |
| State or local regulations | | | | |
| U.S Massachusetts - Righ U.S Pennsylvania - RTK (U.S New Jersey - Right to | | List | | |
| DECHLORANE PLUS ANT | I UNLABELED (135821-74-8 |) | | |
| State or local regulations | | | | |
| U.S Pennsylvania - RTK (U.S New Jersey - Right to | (Right to Know) List Know Hazardous Substance | List | | |
| DECHLORANE PLUS SYN | UNLABELED (135821-03-3 |) | | |
| State or local regulations | | | | |
| U.S Pennsylvania - RTK (U.S New Jersey - Right to | (Right to Know) List Know Hazardous Substance | List | | |
| HEXABROMOBENZENE U | INLABELED (87-82-1) | | | |
| State or local regulations | | | | |
| U.S Pennsylvania - RTK (U.S New Jersey - Right to | (Right to Know) List Know Hazardous Substance | List | | |
| TBPH (BIS(2-ETHYLHEXY | L)TETRABROMOPHTHALA | TE) UNLABELED (26040-51-7 | 7) | |
| State or local regulations | | | | |
| U.S New Jersey - Right to U.S Pennsylvania - RTK (| o Know Hazardous Substance (Right to Know) List | List | | |
| TOLUENE UNLABELED (1 | 08-88-3) | | | |
| State or local regulations | | | | |
| | Discharge Requirements - Re | portable Quantities | | |
| U.S Delaware - Pollutant I | Know Hazardous Substance | | | |

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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| TOLUENE UNLABELED (108-88-3) | | |
|---------------------------------------------------------------------------------------|--|--|
| U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances | | |
| U.S Pennsylvania - RTK (Right to Know) List | | |
| U.S Massachusetts - Right To Know List | | |
| N-NONANE UNLABELED (111-84-2) | | |
| State or local regulations | | |
| U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations | | |
| U.S New Jersey - Right to Know Hazardous Substance List | | |
| U.S Massachusetts - Right To Know List | | |
| U.S Pennsylvania - RTK (Right to Know) List | | |
| U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances | | |
| 1,4-DIBROMOBENZENE UNLABELED (106-37-6) | | |
| | | |
| State or local regulations | | |
| U.S Pennsylvania - RTK (Right to Know) List | | |
| U.S New Jersey - Right to Know Hazardous Substance List | | |
| | | |
| SECTION 16: Other information | | |

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 (Inhilation) Acute toxicity (Inhilation) Category 3 Acute Tox. 4 (Dermal) Acute toxicity (Inhilation) Category 4 Acute Tox. 4 (Inhilation) Acute toxicity (Inhilation) Category 4 Acute Tox. 4 (Inhilation) Acute toxicity (Inhilation) Category 4 Acute Tox. 4 (Inhilation) Acute toxicity (Inhilation) Category 4 Acute Tox. 4 (Inhilation) Acute toxicity (Inhilation) Category 4 Aquatic Acute 1 Hazardous to the aquatic environment - Acute Hazard Category 1 Aquatic Chronic 1 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 4 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 4 Hazardous to the aquatic environment - Chronic Hazard Category 2 Eye Irrit. 2 Serious eye damage/eye irritation Category 2 Eye Irrit. 2 Serious eye damage/eye irritation Category 2 Flam. Liq. 3 Flammable liquids Category 3 Repr. 2 Reproductive toxicity (category 2 Stin Irrit. 2 Skin corrosion/irritation Category 2 STOT SE 2 Specific target organ toxicity (single exposure) Category 3 H225 Highly flammable liquid and vapor < | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|-------------------------------------------------------------------|
| Acute Tox. 3 (Oral) Acute toxicity (oral) Category 3 Acute Tox. 4 (Demail) Acute toxicity (dermal) Category 4 Acute Tox. 4 (Inhalation) Acute toxicity (inhalation): Category 4 Acute Tox. 4 (Inhalation) Acute toxicity (inhalation): Category 4 Acute Tox. 4 (Inhalation) Acute toxicity (inhalation): Category 4 Acute Tox. 4 (Oral) Acute toxicity (inhalation): Category 4 Aquatic Acute1 Hazardous to the aquatic environment - Acute Hazard Category 1 Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 4 Hazardous to the aquatic environment - Chronic Hazard Category 4 Asp. Tox. 1 Aspiration hazard Category 1 Carc. 2 Carcinogenicity Category 2 Eye Irrit. 2 Serious eye damage/eye irritation Category 2 Flam. Liq. 3 Flammable liquids Category 2 Skin Irrit. 2 Skin corrosion/irritation Category 2 Strot RE 2 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 <td>Acute Tox. 3 (Dermal)</td> <td>Acute toxicity (dermal) Category 3</td> | Acute Tox. 3 (Dermal) | Acute toxicity (dermal) Category 3 |
| Acute Tox. 4 (Dermal) Acute toxicity (dermal) Category 4 Acute Tox. 4 (Inhalation) Acute toxicity (inhalation) Category 4 Acute Tox. 4 (Inhalation:vapour) Acute toxicity (inhalation:vapour) Category 4 Acute Tox. 4 (Inhalation:vapour) Acute toxicity (oral) Category 4 Aquatic Chronic 1 Hazardous to the aquatic environment - Acute Hazard Category 1 Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 4 Hazardous to the aquatic environment - Chronic Hazard Category 4 Asp. Tox. 1 Aspiration hazard Category 1 Carc. 2 Carcinogenicity Category 2 Eye Irnit. 2 Serious eye damage/eye irritation Category 2 Flam. Liq. 3 Flammable liquids Category 2 Flam. Liq. 3 Flammable liquids Category 2 Skin Irnit. 2 Specific target organ toxicity (single exposure) Category 2 STOT RE 2 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 STOT SE 4 Haxmful fi swallowed H302 Harmful fi swallowed H303 Toxic fi swallowed H304 May be fatal if swallowed and enters ainways H311 <td></td> <td></td> | | |
| Acute Tox. 4 (Inhalation) Acute toxicity (inhalation:vapour) Acute Tox. 4 (Inhalation:vapour) Acute toxicity (inhalation:vapour) Acute Tox. 4 (Oral) Acute toxicity (oral) Category 4 Aquatic Acute 1 Hazardous to the aquatic environment - Acute Hazard Category 1 Aquatic Chronic 1 Hazardous to the aquatic environment - Chronic Hazard Category 1 Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 4 Hazardous to the aquatic environment - Chronic Hazard Category 4 Asp. Tox. 1 Aspiration hazard Category 1 Carc. 2 Carcinogenicity Category 2 Eye Irrit. 2 Serious eye damage/eye irritation Category 2 Flam. Liq. 3 Flammable liquids Category 3 Repr. 2 Reproductive toxicity Category 2 Stin Irrit. 2 Skin corrosion/irritation Category 2 Stort RE 2 Specific target organ toxicity (single exposure) Category 2 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H225 Highly flammable liquid and vapor H226 Flammable liquid and vapor H301 Toxic i nontact with skin H312 Harmful if swallowed H334 Toxic i nontact w | , , , | |
| Acute Tox. 4 (Inhalation:vapour) Acute toxicity (inhalation:vapour) Category 4 Acute Tox. 4 (Oral) Acute toxicity (oral) Category 4 Aquatic Acute 1 Hazardous to the aquatic environment - Acute Hazard Category 1 Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 1 Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 4 Hazardous to the aquatic environment - Chronic Hazard Category 4 Asp. Tox. 1 Aspiration hazard Category 1 Carc. 2 Carcinogenicity Category 2 Eye Irnit. 2 Serious eye damage/eye irritation Category 2 Flam. Liq. 3 Flammable liquids Category 2 Flam. Liq. 3 Flammable liquids Category 2 Stron TRE 2 Specific target organ toxicity (single exposure) Category 2 STOT SE 2 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H225 Highly flammable liquid and vapor H301 Toxic if swallowed H302 Harmful if swallowed H304 May be fatal if swallowed and enters airways H311 Toxic if inhaled H312 <t< td=""><td></td><td></td></t<> | | |
| Acute Tox. 4 (Oral) Acute toxicity (oral) Category 4 Aquatic Acute 1 Hazardous to the aquatic environment - Acute Hazard Category 1 Aquatic Chronic 1 Hazardous to the aquatic environment - Chronic Hazard Category 1 Aquatic Chronic 2 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 4 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 4 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 4 Hazardous to the aquatic environment - Chronic Hazard Category 2 Aquatic Chronic 4 Hazardous to the aquatic environment - Chronic Hazard Category 2 Carc. 2 Carcinogenicity Category 2 Eye Irrit. 2 Serious eye damage/eye irritation Category 2 Flam. Liq. 3 Flammable liquids Category 3 Repr. 2 Reproductive toxicity Category 2 Stin Irrit. 2 Skin corrosion/Irritation Category 2 STOT RE 2 Specific target organ toxicity (single exposure) Category 3 STOT SE 3 Specific target organ toxicity (single exposure) Category 3 H225 Highly flammable liquid and vapor H226 Flammable liquid and vapor H301 Toxic if swallowed H311 Toxic if swallowed an | Acute Tox. 4 (Inhalation) | |
| Aquatic Acute 1Hazardous to the aquatic environment - Acute Hazard Category 1Aquatic Chronic 1Hazardous to the aquatic environment - Chronic Hazard Category 1Aquatic Chronic 2Hazardous to the aquatic environment - Chronic Hazard Category 2Aquatic Chronic 4Hazardous to the aquatic environment - Chronic Hazard Category 2Aquatic Chronic 4Hazardous to the aquatic environment - Chronic Hazard Category 4Asp. Tox. 1Aspiration hazard Category 1Carc. 2Carcinogenicity Category 2Eye Irrit. 2Serious eye damage/eye irritation Category 2Flam. Liq. 3Flammable liquids Category 3Repr. 2Reproductive toxicity Category 2Stin Irrit. 2Specific target organ toxicity (repeated exposure) Category 2STOT RE 2Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3H225Highly flammable liquid and vaporH301Toxic if swallowedH302Harmful if swallowedH311Toxic in contact with skinH312Harmful if swallowedH313Toxic if inhaledH324Harmful inhaledH335May cause respiratory irritationH336May cause respiratory irritationH336Suspected of causing cancerH361Suspected of damaging fertility or the unborn child | | |
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| Carc. 2Carcinogenicity Category 2Eye Irrit. 2Serious eye damage/eye irritation Category 2Flam. Liq. 2Flammable liquids Category 3Repr. 2Reproductive toxicity Category 2Skin Irrit. 2Skin corrosion/Irritation Category 2STOT RE 2Specific target organ toxicity (repeated exposure) Category 2STOT SE 3Specific target organ toxicity (single exposure) Category 3REDT SE 3Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3H225Highly flammable liquid and vaporH226Flammable liquid and vaporH301Toxic if swallowedH302Harmful if swallowedH311Toxic in contact with skinH312Harmful in contact with skinH313Toxic if inhaledH334Toxic if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizznessH361Suspected of damaging fertility or the unborn child | | Hazardous to the aquatic environment - Chronic Hazard Category 4 |
| Eye Irrit. 2Serious eye damage/eye irritation Category 2Flam. Liq. 2Flammable liquids Category 2Flam. Liq. 3Flammable liquids Category 2Repr. 2Reproductive toxicity Category 2Skin Irrit. 2Skin corrosion/irritation Category 2STOT RE 2Specific target organ toxicity (repeated exposure) Category 2STOT SE 3Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3H225Highly flammable liquid and vaporH226Flammable liquid and vaporH301Toxic if swallowedH302Harmful if swallowedH311Toxic in contact with skinH312Harmful in contact with skinH314Toxic if inhaledH322Harmful if inhaledH333Toxic if inhaledH334May cause respiratory irritationH335May cause drowsines or dizzinessH361Suspected of damaging fertility or the unborn child | | Aspiration hazard Category 1 |
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| Skin Irrit. 2Skin corrosion/irritation Category 2STOT RE 2Specific target organ toxicity (repeated exposure) Category 2STOT SE 2Specific target organ toxicity (single exposure) Category 2STOT SE 3Specific target organ toxicity (single exposure) Category 3STOT SE 3Specific target organ toxicity (single exposure) Category 3H225Highly flammable liquid and vaporH226Flammable liquid and vaporH301Toxic if swallowedH302Harmful if swallowedH311Toxic in contact with skinH312Harmful in contact with skinH313Toxic if inhaledH332Harmful if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child | Flam. Liq. 3 | Flammable liquids Category 3 |
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| H301Toxic if swallowedH302Harmful if swallowedH304May be fatal if swallowed and enters airwaysH311Toxic in contact with skinH312Harmful in contact with skinH315Causes skin irritationH319Causes serious eye irritationH331Toxic if inhaledH332Harmful if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child | H225 | Highly flammable liquid and vapor |
| H302Harmful if swallowedH304May be fatal if swallowed and enters airwaysH311Toxic in contact with skinH312Harmful in contact with skinH315Causes skin irritationH319Causes serious eye irritationH331Toxic if inhaledH332Harmful if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child | H226 | Flammable liquid and vapor |
| H304May be fatal if swallowed and enters airwaysH311Toxic in contact with skinH312Harmful in contact with skinH315Causes skin irritationH319Causes serious eye irritationH331Toxic if inhaledH332Harmful if inhaledH336May cause respiratory irritationH336Suspected of causing cancerH361Suspected of damaging fertility or the unborn child | H301 | Toxic if swallowed |
| H311Toxic in contact with skinH312Harmful in contact with skinH315Causes skin irritationH319Causes serious eye irritationH331Toxic if inhaledH332Harmful if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child | H302 | Harmful if swallowed |
| H312Harmful in contact with skinH315Causes skin irritationH319Causes serious eye irritationH331Toxic if inhaledH332Harmful if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child | H304 | May be fatal if swallowed and enters airways |
| H315Causes skin irritationH319Causes serious eye irritationH331Toxic if inhaledH332Harmful if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child | H311 | Toxic in contact with skin |
| H319Causes serious eye irritationH331Toxic if inhaledH332Harmful if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child | H312 | Harmful in contact with skin |
| H331Toxic if inhaledH332Harmful if inhaledH335May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child | H315 | Causes skin irritation |
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| H335May cause respiratory irritationH336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child | H331 | Toxic if inhaled |
| H336May cause drowsiness or dizzinessH351Suspected of causing cancerH361Suspected of damaging fertility or the unborn child | H332 | Harmful if inhaled |
| H351 Suspected of causing cancer H361 Suspected of damaging fertility or the unborn child | | May cause respiratory irritation |
| H361 Suspected of damaging fertility or the unborn child | | May cause drowsiness or dizziness |
| | H351 | Suspected of causing cancer |
| H371 May cause damage to organs | H361 | Suspected of damaging fertility or the unborn child |
| | H371 | May cause damage to organs |
| H373 May cause damage to organs through prolonged or repeated exposure | H373 | May cause damage to organs through prolonged or repeated exposure |

IN NONANE/TOLUENE ES-5606

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| H400 | Very toxic to aquatic life |
|-----------|-------------------------------------------------------------------------------------------------|
| H410 | Very toxic to aquatic life with long lasting effects |
| H411 | Toxic to aquatic life with long lasting effects |
| H413 | May cause long lasting harmful effects to aquatic life |
| R10 | Flammable |
| R11 | Highly flammable |
| R20 | Harmful by inhalation |
| R20/21/22 | Harmful by inhalation, in contact with skin and if swallowed |
| R21/22 | Harmful in contact with skin and if swallowed |
| R23 | Toxic by inhalation |
| R36/37/38 | Irritating to eyes, respiratory system and skin |
| R36/38 | Irritating to eyes and skin |
| R37 | Irritating to respiratory system |
| R38 | Irritating to skin |
| R48/20 | Harmful: danger of serious damage to health by prolonged exposure through inhalation |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R51/53 | Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R62 | Possible risk of impaired fertility |
| R63 | Possible risk of harm to the unborn child |
| R65 | Harmful: may cause lung damage if swallowed |
| R67 | Vapors may cause drowsiness and dizziness |
| R68 | Possible risk of irreversible effects |
| F | Highly flammable |
| Ν | Dangerous for the environment |
| Т | Toxic |
| Xi | Irritant |
| Xn | Harmful |

| NFPA health hazard : | 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury. |
|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| NFPA fire hazard : | 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions. |
| NFPA reactivity : | 0 - Material that in themselves are normally stable, even under fire conditions. |
| HMIS III Rating | |
| Health | : 2 Moderate Hazard - Temporary or minor injury may occur |
| Flammability | : 3 Serious Hazard |

: 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

Physical

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