

METHOD 1668A/B/C CLEAN-UP STANDARD SOLN (13C12, 99%) 1 UG/ML IN NONANE

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: 06/11/2014 Revision date: 04/05/2018 Supersedes: 01/02/2017 Version: 2.1 EC-4978

| | ostance/mixture and of the company/undertaking | | | | |
|---|--|--|--|--|--|
| 1.1. Product identifier | | | | | |
| Product form | : Mixtures | | | | |
| Product name | : METHOD 1668A/B/C CLEAN-UP STANDARD SOLN (13C12, 99%) 1 UG/ML IN NONANE | | | | |
| Product code | : EC-4978 | | | | |
| 1.2. Relevant identified uses of the sub- | 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 | | | | | |
| 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 mixture | | | | | |
| Classification according to Regulation (EC) I | No. 1272/2008 [CLP] | | | | |
| Flam. Liq. 3 H226 | | | | | |
| Acute Tox. 4 (Inhalation:dust,mist) H332 | | | | | |
| Skin Irrit. 2 H315 | | | | | |
| Eye Irrit. 2 H319 | | | | | |
| STOT SE 3 H336 | | | | | |
| Asp. Tox. 1 H304 | | | | | |
| Full text of hazard classes and H-statements : s | ee section 16 | | | | |
| Classification according to Directive 67/548/ | EEC [DSD] or 1999/45/EC [DPD] | | | | |
| Xn; R20 | | | | | |
| Xn; R65 | | | | | |
| R10 | | | | | |
| Full text of R-phrases: see section 16 | | | | | |

GHS-US classification

| Flam. Liq. 3 | H226 |
|---------------------------|------|
| Skin Irrit. 2 | H315 |
| Eye Irrit. 2 | H319 |
| STOT SE 3 | H336 |
| Asp. Tox. 1 | H304 |
| Acute Tox. 4 (Inhalation) | H332 |

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.

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2.2. Label elements Labeling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) GHS02 GHS08 GHS07 Signal word (CLP) : Danger Hazardous ingredients : N-NONANE UNLABELED Hazard statements (CLP) H226 - 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 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 P261 - Avoid breathing dust, fume, gas, mist, spray, vapors P264 - Wash Both hands 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) GHS02 GHS08 GHS07 Signal word (GHS-US) : Danger Hazard statements (GHS-US) : H226 - 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 P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking Precautionary statements (GHS-US) P233 - Keep container tightly closed P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical, lighting, ventilating equipment P242 - Use only non-sparking tools P243 - Take precautionary measures against static discharge P261 - Avoid breathing dust, fume, gas, mist, spray, vapors P264 - Wash Both hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area 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

- P312 Call a doctor, a POISON CENTER if you feel unwell
- P321 Specific treatment (see Hazard pictograms (CLP) 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, Dry chemical, Water
- spray to extinguish

P403+P233 - Store in a well-ventilated place. Keep container tightly closed

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P403+P235 - Store in a well-ventilated place. Keep cool P405 - Store locked up

P501 - Dispose of contents/container to Alcohol resistant foam, Carbon dioxide, Dry chemical, Water spray

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

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 | 99.99999581 | R10 Xn; R20 Xn; R65 Xi; R36/38 R67 |
| 2,3,3',5,5'-PENTACB (PCB-111) (13C12, 99%) | (CAS No) 235416-29-2 (EC Index No) 602-039-00-4 | 0.0000014 | Xn; R48/20/21/22 N; R50/53 R33 |
| 2,4,4'-TRICB (PCB-28) (13C12, 99%) | (CAS No) 208263-76-7 (EC No) 230-293-2 (Unlabeled) (EC Index No) 602-039-00-4 (Unlabeled) | 0.0000014 | Xn; R20/21/22 N; R50/53 R48 |
| 2,2',3,3',5,5',6-HEPTACB (PCB-178) (13C12, 99%) | (CAS No) 232919-67-4 (EC Index No) 602-039-00-4 | 0.0000014 | N; R50/53 Xn; R21/22 |
| 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 | 99.99999581 | 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 |
| 2,3,3',5,5'-PENTACB (PCB-111) (13C12, 99%) | (CAS No) 235416-29-2 (EC Index No) 602-039-00-4 | 0.0000014 | STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| 2,4,4'-TRICB (PCB-28) (13C12, 99%) | (CAS No) 208263-76-7 (EC No) 230-293-2 (Unlabeled) (EC Index No) 602-039-00-4 (Unlabeled) | 0.0000014 | STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| 2,2',3,3',5,5',6-HEPTACB (PCB-178) (13C12, 99%) | (CAS No) 232919-67-4 (EC Index No) 602-039-00-4 | 0.0000014 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
| Name | Product identifier | % | GHS-US classification |
| N-NONANE UNLABELED | (CAS No) 111-84-2 | 99.99999581 | 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 |
| 2,3,3',5,5'-PENTACB (PCB-111) (13C12, 99%) | (CAS No) 235416-29-2 | 0.0000014 | STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 |
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Full text of R- and H- phrases: see section 16

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|--|--|
| SECTION 4: First aid measures | |
| 4.1. Description of first aid measures | 3 |
| First-aid measures general | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). Call a physician immediately. |
| First-aid measures after inhalation | Remove person to fresh air and keep comfortable for breathing. 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. Call a poison center/doctor/physician if you feel unwell. |
| First-aid measures after skin contact | : Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of soap and water. Wash contaminated clothing before reuse. Get medical advice/attention. If skin irritation occurs: Get medical advice/attention. |
| First-aid measures after eye contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician. Do not induce vomiting. Call a physician immediately. |
| 4.2. Most important symptoms and e | ffects, both acute and delayed |
| Symptoms/injuries | : May cause drowsiness or dizziness. |
| Symptoms/injuries after inhalation | : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause drowsiness or dizziness. |
| Symptoms/injuries after skin contact | : Causes skin irritation. Irritation. |
| Symptoms/injuries after eye contact | : Causes serious eye irritation. Eye irritation. |
| Symptoms/injuries after ingestion | : May be fatal if swallowed and enters airways. Risk of lung edema. |
| 4.3. Indication of any immediate med | lical attention and special treatment needed |
| Treat symptomatically. | |
| SECTION 5: Firefighting measure | S |
| 5.1. Extinguishing media | |
| Suitable extinguishing media | : Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |
| 5.2. Special hazards arising from the | substance or mixture |
| Fire hazard | : Flammable liquid and vapor. |
| Explosion hazard | : May form flammable/explosive vapor-air mixture. |
| Reactivity | : Vapor is explosive with air above. Flammable liquid and vapor. |
| 5.3. Advice for firefighters | |
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
| SECTION 6: Accidental release m | easures |
| 6.1. Personal precautions, protective | equipment 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 | : Ventilate spillage area. Evacuate unnecessary personnel. No open flames, no sparks, and no smoking. Avoid breathing dust, fume, gas, spray, mist, 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. Equip cleanup crew with proper protection. Avoid breathing dust, mist or spray. For further information refer to section 8: "Exposure controls/personal protection". |
| Emergency procedures | : Ventilate area. |
| 6.2. Environmental precautions | |
| | ntry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. |
| 6.3. Methods and material for contain | |
| For containment | : Dike and contain spill. Dispose as hazardous waste. Comply with local regulations for disposal. |
| | |

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| Method | ls for cleaning up | Take up liquid spill into absorbent material. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. Notify authorities if product enters sewers or public waters. |
|----------|-----------------------------|--|
| Other in | nformation | : Dispose of materials or solid residues at an authorized site. |
| 6.4. | Reference to other sections | |

See Heading 8. Exposure controls and personal protection. For further information refer to section 13.

| SECTION 7: Handling and storage | | | |
|---|--|--|--|
| 7.1. Precautions for safe handling | | | |
| Additional hazards when processed | : Handle empty containers with care because residual vapors are flammable. | | |
| Precautions for safe handling | : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No open flames. No smoking. Take precautionary measures against static discharge. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing dust, mist or spray. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Avoid breathing dust, fume, spray, vapors, mist, gas. Avoid contact with skin and eyes. | | |
| Hygiene measures | : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. | | |
| 7.2. Conditions for safe storage, including any incompatibilities | | | |
| Technical measures | : Proper grounding procedures to avoid static electricity should be followed. Ground/bond container and receiving equipment. Use explosion-proof electrical equipment. | | |
| Storage conditions | : Store at room temperature away from light and moisture. | | |
| Incompatible products | : Strong bases. Strong acids. | | |
| Incompatible materials | : Sources of ignition. Direct sunlight. Heat sources. | | |
| 7.3. Specific end use(s) | | | |

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| N-NONANE UNLABELED (111-84-2) | | | |
|--|---|--|--|
| 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.
- : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Materials for protective clothing Hand protection

: Wear suitable protective clothing and gloves.

: Wear protective gloves.

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| Eye protection | : | Chemical goggles or safety glasses. Safety glasses. |
|---------------------------------|---|---|
| Skin and body protection | : | Wear suitable protective clothing. |
| Respiratory protection | : | Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. Wear respiratory protection. |
| Environmental exposure controls | : | Avoid release to the environment. |
| Other information | : | Do not eat, drink or smoke during use. |

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 component of this mixture.

| The properties listed below are for the solvent, the main com | ponent of this mixture. |
|---|---|
| Physical state | : Liquid |
| Appearance | : Liquid |
| Molecular mass | : 128.3 g/mol |
| 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 | : Not applicable |
| Freezing point | : -53 °C (- 63 °F) - lit |
| Boiling point | : 151 °C (304 °F) - lit |
| Flash point | : 31 °C (87.8 °F) - closed cup |
| Auto-ignition temperature | : 205 °C (401 °F) |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapor pressure | : 5.69 hPa (4.27 mmHg) at 25 °C (77 °F) |
| Relative vapor density at 20 °C | : No data available |
| Relative density | : No data available |
| Specific gravity / density | : 0.718 g/ml at 25 °C (77 °F) |
| Solubility | : Water: 0.0002 % at 25 °C (77 °F) - slightly soluble |
| Log Pow | : 5.65 |
| Log Kow | : No data available |
| Viscosity, kinematic | : <= 1.008 mm²/s at 20 °C (68 °F) |
| Viscosity, dynamic | : No data available |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Explosion limits | : 0.87 - 2.9 % (V) |
| | |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity 10.1. Reactivity Vapor is explosive with air above. Flammable liquid and vapor. 10.2. Chemical stability See storage and expiration date on CoA. 10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame. Overheating. Heat. Sparks. Avoid contact with hot surfaces. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. May release flammable gases.

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| SECTION 11: Toxicological information | | | |
|--|---|--|--|
| 11.1. Information on toxicological effects | | | |
| Acute toxicity | : Inhalation:dust,mist: Harmful if inhaled. | | |
| METHOD 1668A/B/C CLEAN-UP STANDARD | · · · · · · · · · · · · · · · · · · · | | |
| ATE CLP (dust, mist) | 1.500 mg/l/4h | | |
| 2,2',3,3',5,5',6-HEPTACB (PCB-178) (13C12, 9 | | | |
| ATE CLP (oral) | 500.000 mg/kg body weight | | |
| ATE CLP (dermal) | 1100.000 mg/kg body weight | | |
| 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 | | |
| Skin corrosion/irritation | : Causes skin irritation. | | |
| Serious eye damage/irritation | : Causes serious eye irritation. | | |
| Respiratory or skin sensitization | : Not classified | | |
| | Based on available data, the classification criteria are not met | | |
| Germ cell mutagenicity | : Not classified | | |
| | Based on available data, the classification criteria are not met | | |
| Carcinogenicity | : Not classified | | |
| | Based on available data, the classification criteria are not met | | |
| Reproductive toxicity | : Not classified | | |
| | Based on available data, the classification criteria are not met | | |
| Specific target organ toxicity – single exposure | : May cause drowsiness or dizziness. | | |
| Specific target organ toxicity – repeated | Not classified | | |
| exposure | Based on available data, the classification criteria are not met | | |
| · | | | |
| 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 | : Harmful if inhaled. | | |
| Symptoms/injuries after inhalation | : Danger of serious damage to health by prolonged exposure through inhalation. Harmful if inhaled. May cause drowsiness or dizziness. | | |
| Symptoms/injuries after skin contact | : Causes skin irritation. Irritation. | | |
| Symptoms/injuries after eye contact | : Causes serious eye irritation. Eye irritation. | | |
| Symptoms/injuries after ingestion | : May be fatal if swallowed and enters airways. Risk of lung edema. | | |

| SECTION 12: Ecological information | | |
|--|--|--|
| | | |
| : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment. | | |
| 2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-76-7) | | |
| > 0.16 mg/l Pimpephale promelas (fathead minnow) -96h | | |
| > 0.16 mg/l Daphnia magna (Water flea) -48h | | |
| N-NONANE UNLABELED (111-84-2) | | |
| 0.2 mg/l static test EC50 - Daphnia magna (Water flea) - 48 h | | |
| | | |

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|--|------------------|--|--|--|
| Persistence and degradability | Not established. | | | |

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| 12.3. Bioaccumulative potential | |
|--|---|
| METHOD 1668A/B/C CLEAN-UP STANDARD | |
| Log Pow Bioaccumulative potential | 5.65 Not established. |
| | |
| N-NONANE UNLABELED (111-84-2) | |
| Log Pow Bioaccumulative potential | 5.65 Indication of bioaccumulation. |
| | |
| 12.4. Mobility in soil No additional information available | |
| | |
| 12.5. Results of PBT and vPvB assessme | int |
| No additional information available | |
| 12.6. Other adverse effects | |
| Other information | : Avoid release to the environment. |
| SECTION 13: Disposal consideration | ns |
| 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: | : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to Dispose in a safe manner in accordance with local/national regulations. |
| Additional information | : Handle empty containers with care because residual vapors are flammable. Flammable vapors may accumulate in the container. |
| Ecology - waste materials | : Avoid release to the environment. Hazardous waste due to toxicity. |
| SECTION 14: Transport information | |
| In accordance with ADR / RID / IMDG / IATA / A 14.1. UN number | DN |
| UN-No.(DOT) | : 1920 |
| DOT NA no. | UN1920 |
| 14.2. UN proper shipping name | |
| Proper Shipping Name (DOT) | : Nonanes |
| Class (DOT) | : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 |
| Hazard labels (DOT) | : 3 - Flammable liquid |
| | FLAMMABLE LIQUID |
| Packing group (DOT) | : III - Minor Danger |
| DOT Special Provisions (49 CFR 172.102) | B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable. IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 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). T2 - 1.5 178.274(d)(2) Normal |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : 150 |
| DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx) | : 203 : 242 |
| 14.3. Additional information | |
| Other information | : No supplementary information available. |
| | |

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| Packarg group (ADR) : 11 Class (ADR) : 3 - Flammable liquid Hazard identification number (Kemler No.) : 30 Class (ADR) : 3 - Flammable liquids | | | | | | |
|--|--|---|--|--|--|--|
| Class (APR) : 3 - Flammable liquid Hazard identification number (Kemier No.) : 30 Classification code (ADR) : F1 Hazard labels (ADR) : 3 - Flammable liquids | Overland transport | | | | | |
| Hazard labels (ADR) : 30 Classification code (ADR) : 51 Hazard labels (ADR) : 3 - Flammable liquids | | | | | | |
| Classification code (ADR) : F1 Hazard labels (ADR) : 3 - Flammable liquids | | • | | | | |
| Hazard labels (ADR) : 3 - Flammable liquids Orange plates : 30 Orange plates : 30 Diversion code (ADR) : DE EAC : 37 Excepted quantities (ADR) : E 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 : 128 Art transport DOT Quantity Limitations Passenger aircraft/vall : 60 L QOT Quantity Limitations Passenger aircraft/vall : 60 L QOT Quantity Limitations Passenger aircraft/vall : 60 L QOT Quantity Limitations Cargo aircraft only (49 : 20 L CFR 173.27) Dot Quantity Limitations Cargo aircraft only (49 : 20 L CFR 173.75) Civil Aeronautics Law : Flammable liquids HA4. Environmental hazards HA4. Environmental hazards EXCEDION 15. Regultatory Information I No supplementary information available. HA5. Special precautions for user HA5. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable SECTION 15. Regultatory Information EXCEDION 15. Regultatory Information EXCA Cols Substances Control Act) inventory EPA TSCA Regulatory Elig T - 1 - indicates a substance that is the subject of a Section 4 test rule under TSCA. SAPA Section 313 - Entission Reporting Not subject to reporting requirements of the United States SARA Section 302. ARA Section 313 - Entission Reporting Not subject to reporting requirements of the United States SARA Section 302. ARA Section 313 - Entission Reporting Not subject to reporting requirements of the United States SARA Section 302. ARA Section 313 - Entission Reporting Not subject to reporting requirements of the United States SARA Section 302. ARA Section 313 - Entission Reporting Not subject to reporting requirements of the United States SARA Section 302. ARA Section 313 - Entission Reporting Not subject to reporting requirements of the United States SARA Section 302. ARA Section 313 - Entission Reporting Not subject to reporting requirements of the United States SARA Section 302 | | | | | | |
| Orange plates 30 Invinced quantities (ADR) DE Invinced quantities (ADR) SI EAC 3Y Excepted quantities (ADR) SI POT Owarity Limitations Cargo aircraft only (49 220 L POT Quantity Limitations Cargo aircraft only (49 220 L POT Quantity Limitations Cargo aircraft only (49 220 L POT Quantity Limitations Cargo aircraft only (49 220 L POT Quantity Limitations Cargo aircraft only (49 220 L POT Quantity Limitations Cargo aircraft only (49 220 L Cold Aeronautics Law Flammable liquids 14. Environmental hazards Environmental hazards Cold Aeronautions for user Id 14.5. Special precautions for user Id 15.1. US Redetal regulations Immediat hazard Environmental hazard Instruct on the United States TSCA (Toxic Substances Control Act) inventory EA EA </td <td></td> <td></td> | | | | | | |
| 30 1920 Tunnel restriction code (ADR) D/E Linnited quantities (ADR) Si EAC :3Y 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. MF AG-No :128 Air transport DOD Ountity Linitiations Passenger aircraft/rall :60 L DOT Quantity Linitiations Cargo aircraft only (49) :220 L CR 173.75) Civil Aeronautics Law : Flammable liquids 14.4. Environmental hazards Differentiation Other information : No supplementary information available. 15.1. US Facheral regulatory Fiag T- T - indicates a substance that is the subject of a Section 4 test rule under TSCA. SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 302. SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 302. SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 302. | Hazard labels (ADR) | | | | | |
| 30 1920 Tunnel restriction code (ADR) D/E Linnited quantities (ADR) Si EAC :3Y 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. MF AG-No :128 Air transport DOD Ountity Linitiations Passenger aircraft/rall :60 L DOT Quantity Linitiations Cargo aircraft only (49) :220 L CR 173.75) Civil Aeronautics Law : Flammable liquids 14.4. Environmental hazards Differentiation Other information : No supplementary information available. 15.1. US Facheral regulatory Fiag T- T - indicates a substance that is the subject of a Section 4 test rule under TSCA. SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 302. SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 302. SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 302. | | 3 | | | | |
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| EAC : 3Y Excepted quantities (ADR) : E1 Transport by sea | Tunnel restriction code (ADR) | : D/E | | | | |
| 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. WFAG-No : 128 Air transport DOT Quantity Limitations Passenger aircraft/rail : 60 L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 20 L CFR 173.75) CMI Aeronautics Law : Flammable liquids t4.4 Environmental hazards DOther information : No supplementary information available. t4.5 Special precautions for user t4.6 Environmental hazards DOther information : No supplementary information available. t4.5 Special precautions for user t4.6 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable SECETION 15: Regulatory information ETSCA Regulatory Flag T-1 - indicates a substance that is the subject of a Section 4 test rule under TSCA. SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. SARA Section 302 Threshold Planning Not subject to reporin | Limited quantities (ADR) | 51 | | | | |
| 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. WFAG-No : 128 Air transport DOT Quantity Limitations Passenger alrcratt/rail : 60 L QG CR 173.27) : 200 L : CR 175.75) CMI 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 Annex II of MARPOL 73/78 and the IBC Code Not applicable SECETION 15: Regulatory information 15.1. US Federal regulations T - T - indicates a substances to that is the subject of a Section 4 test rule under TSCA. MARA Section 313.1/312 Hazard Classes Fire hazard Immediate (acute) health hazard SARA Section 313.1 T - T - indicates a substances of the United States SARA Section 302. Quantity (TPO) Sates TSCA (Toxic Substances 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 313.1/312 Hazard Classes Fire hazard Immediate (acute) health hazard SARA Section 313.2 Emission Reporting N | EAC | : 3Y | | | | |
| 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 : 128 Air transport DOT Quantity Limitations Passenger aircraft/rail : 60 L Q4 GFR 173.27) : 220 L CFR 175.75) : 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 Annex II of MARPOL 73/78 and the IBC Code Not applicable SECTION 15: Regulatory information 15.1. US Federal regulatory Indicates a substance that is the subject of a Section 4 test rule under TSCA. SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. Quantity (TPO) SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 313. 21,3.3,5,5,6-HEPTACB (PCB-178) (13C12, 99%) (22219-67-4) Not subject to reporing requirements of the United States SARA Section 302. Quantity (TPO) SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 313. 21,3.3,5,5,6-HEPTACB (PCB-178) (13C12, 99%) (22219-57-4) Not subject to reporing requirements of the U | Excepted quantities (ADR) | : E1 | | | | |
| 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 : 128 Air transport DOT Quantity Limitations Passenger aircraft/rail : 60 L Q4 GFR 173.27) : 220 L CFR 175.75) : 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 Anner II of MARPOL 73/78 and the IBC Code Not applicable SECTION 15: Regulatory information 15.1. US Federal regulators Indicates as usubstance that is the subject of a Section 4 test rule under TSCA. SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. Quantity (TPO) SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 313. 2.3.3.5.5.6.4EPTACB (PCB-178) (13C12, 99%) (22219-67-4) Not subject to reporing requirements of the United States SARA Section 302. Quantity (TPO) SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 303. 2.3.3.5.5.6.4EPTACB (PCB-178) (13C12, 99%) (22219-67-4) Not subject to reporing requirements of the U | | | | | | |
| massenger vessel. MFAG-No : 128 Air transport DOT Quantity Limitations Passenger aircraft/rail : 60 L (49 CFR 173.27) : 60 L DOT Quantity Limitations Cargo aircraft only (49 : 220 L CFR 175.75 : | | | | | | |
| Air transport DOT Quantity Limitations Passenger aircraft/rail : 60 L. (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 220 L. CFR 175.75) 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 Annex II of MARPOL 73/78 and the IBC Code Not applicable SECTION 15: Regulatory information 15.1. US Federal regulations Image: Section 315 (Civic Substances 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 Not subject to reporing requirements of the United States SARA Section 302. Quantity (TPQ) SARA Section 302 Threshold Planning SARA Section 303 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 303. 22,3,3'5,5'6-HEPTACB (PCB-178) (13C12, 99%) (282919-67-4) Not subject to reporing requirements of the United States SARA Section 313. 22,3,3'5,5'6-HEPTACB (PCB-20) (30225-70) Not subject to reporing requirements of the United States SARA Section 303. 24,4'-TRICB (PCB-20) (13C12, | - | passenger vessel. | | | | |
| DOT Quantity Limitations Passenger aircraft/rail : 60 L (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 20 L CFR 175.75) 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 Annex II of MARPOL 73/78 and the IBC Code Not applicable SECTION 15: Regulatory information SECTION 15: Regulatory information 15.1. US Federal regulations METHOD 1668A/B/C CLEAN-UP STANDARD SULN (13C12, 99%) 1 UG/ML IN NONANE Listed on the United States TSCA (Toxic Substances 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 301 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. GARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 302. SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 302. SARA Section 313 - Emission Reporting Not subject to reporing re | MFAG-No | : 128 | | | | |
| (49 CFR 173.27) DOT Quantity Limitations Cargo aircraft only (49 : 220 L CFR 175.75) 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 Annex II of MARPOL 73/78 and the IBC Code Not applicable SECTION 15: Regulatory information SECTION 15: Regulatory information 15.1.US Federal regulations METHOD 1668A/B/C CLEAN-UP STANDARD SOLN (13C12, 99%) 1 UG/ML IN NONANE Listed on the United States TSCA (Toxic Substances 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 Not subject to reporing requirements of the United States SARA Section 302. GARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 302. SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 303. 22:33:55:6-HETTACE (PCB-178) (13C12, 99%) (23291+67-4) Not subject to reporing requirements of the United States SARA Section 302. Not listed on the Unit | Air transport | | | | | |
| CFR 175.75) 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 Annex II of MARPOL 73/78 and the IBC Code Not applicable SECTION 15: Regulatory information SECTION 15: Regulatory information Istate State St | DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 60 L | | | | |
| 14.4. Environmental hazards Other information No supplementary information available. 14.5. Special precautions for user 14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable SECTION 15: Regulatory information Store of the United States TSCA (Toxic Substances 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 Not subject to reporing requirements of the United States SARA Section 302. Quantity (TPQ) SARA Section 311/312 Hazard Classes Fire hazard Immediate (acute) health hazard SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 313. 22:3;5;5;-6+HEPTACB (PCB-178) (13C12, 99%) (232919-67-4) Not listed on the United States TSCA (Toxic Substances Control Act) inventory SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 303. 2:3;5;5;6-HEPTACB (PCB-178) (13C12, 99%) (232919-67-4) Not listed on the United States TSCA (Toxic Substances Control Act) inventory SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. | DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | : 220 L | | | | |
| Other information : No supplementary information available. 14.5. Special precautions for user 14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable SECTION 15: Regulatory information State Section 11: State Section 15: Cuesto Section 15: Cuesto Section 16: State SECA (Toxic Substances 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 Not subject to reporing requirements of the United States SARA Section 302. Quantity (TPQ) State acute) health hazard SARA Section 311/312 Hazard Classes Fire hazard Immediate (acute) health hazard SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 313. 2/2/3,3/5,5/s/eHEPTACE (PCB-178) (13C12, 99%) (232919-67-4) Not subject to reporing requirements of the United States SARA Section 302. SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 302. SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 302. SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 302. SARA Section | Civil Aeronautics Law | : Flammable liquids | | | | |
| Other information : No supplementary information available. 14.5. Special precautions for user 14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable SECTION 15: Regulatory information State Section 11: State Section 15: Cuestion 10: State Section 20: State Sec | | | | | | |
| 14.5. Special precautions for 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 METHOD 1668A/B/C CLEAN-UP STANDARD SOLN (13C12, 99%) 1 UG/ML IN NONANE Listed on the United States TSCA (Toxic Substances Control Act) inventory FPA 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 Not subject to reporing requirements of the United States SARA Section 302. Guantity (TPQ) Not subject to reporing 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 reporing requirements of the United States SARA Section 313. 2,2,3,3,5,5,6-HEPTACB (PCB-178) (13C12, 99%) (232919-67-4) Not listed on the United States TSCA (Toxic Substances Control Act) inventory SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. Quantity (TPQ) SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 303. | | | | | | |
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| SECTION 15: Regulatory information 15.1. US Federal regulations METHOD 1668A/B/C CLEAN-UP STANDARD SOLN (13C12, 99%) 1 UG/ML IN NONANE Listed on the United States TSCA (Toxic Substances 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 Not subject to reporing requirements of the United States SARA Section 302. Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 313. 2.2',3,3',5,5',6-HEPTACB (PCB-178) (13C12, 99%) (232919-67-4) Not listed on the United States TSCA (Toxic Substances Control Act) inventory SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. Quantity (TPQ) SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 302. SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 313. 2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-76-7) SARA Section 302 Threshold Planning SARA Section 302 Threshold Planning Not subject to reporing | 14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | | | | | |
| 15.1. US Federal regulations METHOD 1668A/B/C CLEAN-UP STANDARD SOLN (13C12, 99%) 1 UG/ML IN NONANE Listed on the United States TSCA (Toxic Substances 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 Not subject to reporing 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 reporing requirements of the United States SARA Section 313. 2,2',3,3',5,5',6-HEPTACB (PCB-178) (13C12, 99%) (232919-67-4) Not listed on the United States TSCA (Toxic Substances Control Act) inventory SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporing requirements of the United States SARA Section 302. SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 302. Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 313. 2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-76-7) SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 313. <td>Not applicable</td> <td></td> | Not applicable | | | | | |
| 15.1. US Federal regulations METHOD 1668A/B/C CLEAN-UP STANDARD SOLN (13C12, 99%) 1 UG/ML IN NONANE Listed on the United States TSCA (Toxic Substances 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 Not subject to reporing 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 reporing requirements of the United States SARA Section 313. 2,2',3,3',5,5',6-HEPTACB (PCB-178) (13C12, 99%) (232919-67-4) Not listed on the United States TSCA (Toxic Substances Control Act) inventory SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporing requirements of the United States SARA Section 302. SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 302. Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 313. 2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-76-7) SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 313. <td>SECTION 15: Regulatory information</td> <td></td> | SECTION 15: Regulatory information | | | | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventoryEPA TSCA Regulatory FlagT - 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 reporing requirements of the United States SARA Section 302.SARA Section 311/312 Hazard ClassesFire hazard Immediate (acute) health hazardSARA Section 313 - Emission ReportingNot subject to reporing requirements of the United States SARA Section 313.2,2',3,3',5,5',6-HEPTACB (PCB-178) (13C12, 99%) (232919-67-4)Not subject to reporing requirements of the United States SARA Section 302.Not listed on the United States TSCA (Toxic Substances Control Act) inventoryNot subject to reporing requirements of the United States SARA Section 302.SARA Section 302 Threshold Planning Quantity (TPQ)Not subject to reporing requirements of the United States SARA Section 302.SARA Section 313 - Emission ReportingNot subject to reporing requirements of the United States SARA Section 302.2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-76-7)SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302.SARA Section 302 Threshold PlanningNot subject to reporing requirements of the United States SARA Section 313.2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-76-7)SARA Section 302 Threshold PlanningSARA Section 302 Threshold PlanningNot subject to reporing requirements of the United States SARA Section 302. | 15.1. US Federal regulations | | | | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventoryEPA TSCA Regulatory FlagT - 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 reporing requirements of the United States SARA Section 302.SARA Section 311/312 Hazard ClassesFire hazard Immediate (acute) health hazardSARA Section 313 - Emission ReportingNot subject to reporing requirements of the United States SARA Section 313.2,2',3,3',5,5',6-HEPTACB (PCB-178) (13C12, 99%) (232919-67-4)Not subject to reporing requirements of the United States SARA Section 302.Not listed on the United States TSCA (Toxic Substances Control Act) inventoryNot subject to reporing requirements of the United States SARA Section 302.SARA Section 302 Threshold Planning Quantity (TPQ)Not subject to reporing requirements of the United States SARA Section 302.SARA Section 313 - Emission ReportingNot subject to reporing requirements of the United States SARA Section 302.2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-76-7)SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302.SARA Section 302 Threshold PlanningNot subject to reporing requirements of the United States SARA Section 313.2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-76-7)SARA Section 302 Threshold PlanningSARA Section 302 Threshold PlanningNot subject to reporing requirements of the United States SARA Section 302. | METHOD 1668A/B/C CLEAN-UP STANDARD | SOLN (13C12, 99%) 1 UG/ML IN NONANE | | | | |
| SARA Section 302 Threshold Planning Quantity (TPQ)Not subject to reporing requirements of the United States SARA Section 302.SARA Section 311/312 Hazard ClassesFire hazard Immediate (acute) health hazardSARA Section 313 - Emission ReportingNot subject to reporing requirements of the United States SARA Section 313.2,2',3,3',5,5',6-HEPTACB (PCB-178) (13C12, 99%) (232919-67-4)Not subject to reporing requirements of the United States TSCA (Toxic Substances Control Act) inventorySARA Section 302 Threshold Planning Quantity (TPQ)Not subject to reporing requirements of the United States SARA Section 302.2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-76-7)Not subject to reporing requirements of the United States SARA Section 302.SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 313.Not subject to reporing requirements of the United States SARA Section 313.2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-76-7)SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. | Listed on the United States TSCA (Toxic Substa | ances Control Act) inventory | | | | |
| Quantity (TPQ)The hazardSARA Section 311/312 Hazard ClassesFire hazard Immediate (acute) health hazardSARA Section 313 - Emission ReportingNot subject to reporing requirements of the United States SARA Section 313.2,2',3,3',5,5',6-HEPTACB (PCB-178) (13C12, 99%) (232919-67-4)Not listed on the United States TSCA (Toxic Substances Control Act) inventorySARA Section 302 Threshold Planning Quantity (TPQ)Not subject to reporing requirements of the United States SARA Section 302.2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-76-7)SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 303.2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-76-7)SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. | | | | | | |
| Immediate (acute) health hazardSARA Section 313 - Emission ReportingNot subject to reporing requirements of the United States SARA Section 313.2,2',3,3',5,5',6-HEPTACB (PCB-178) (13C12, 99%) (232919-67-4)Not listed on the United States TSCA (Toxic Sub=acces Control Act) inventorySARA Section 302 Threshold Planning Quantity (TPQ)Not subject to reporing requirements of the United States SARA Section 302. (13C12, 99%) (208263-To-T)SARA Section 302 Threshold Planning SARA Section 302 Threshold PlanningNot subject to reporing requirements of the United States SARA Section 313.2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-To-T)SARA Section 302 Threshold PlanningSARA Section 302 Threshold Planning SARA Section 302 Threshold PlanningNot subject to reporing requirements of the United States SARA Section 303. | Quantity (TPQ) | | | | | |
| 2,2',3,3',5,5',6-HEPTACB (PCB-178) (13C12, 99%) (232919-67-4) Not listed on the United States TSCA (Toxic Substances Control Act) inventory SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporing requirements of the United States SARA Section 302. SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 313. 2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-76-7) SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. | | Immediate (acute) health hazard | | | | |
| Not listed on the United States TSCA (Toxic Substances Control Act) inventory SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 302. 2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-76-7) SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. | SARA Section 313 - Emission Reporting | Not subject to reporing requirements of the United States SARA Section 313. | | | | |
| SARA Section 302 Threshold Planning Quantity (TPQ) Not subject to reporing requirements of the United States SARA Section 302. SARA Section 313 - Emission Reporting Not subject to reporing requirements of the United States SARA Section 313. 2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-76-7) SARA Section 302 Threshold Planning SARA Section 302 Threshold Planning Not subject to reporing requirements of the United States SARA Section 302. | 2,2',3,3',5,5',6-HEPTACB (PCB-178) (13C12, 99%) (232919-67-4) | | | | | |
| Quantity (TPQ) Not subject to reporting requirements of the United States SARA Section 313. SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313. 2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-76-7) SARA Section 302 Threshold Planning SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302. | | | | | | |
| 2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-76-7) SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302. | Quantity (TPQ) | | | | | |
| SARA Section 302 Threshold Planning Not subject to reporting requirements of the United States SARA Section 302. | SARA Section 313 - Emission Reporting | Not subject to reporing requirements of the United States SARA Section 313. | | | | |
| | | | | | | |
| Quantity (TPQ) | SARA Section 302 Threshold Planning Quantity (TPQ) | Not subject to reporing requirements of the United States SARA Section 302. | | | | |

UG/ML IN NONANE EC-4978

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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

| 2,4,4'-TRICB (PCB-28) (13C12, 99%) (208263-76-7) | | | | |
|--|--|--|--|--|
| SARA Section 311/312 Hazard Classes | Delayed (chronic) health hazard | | | |
| SARA Section 313 - Emission Reporting | Not subject to reporing requirements of the United States SARA Section 313. | | | |
| 2,3,3',5,5'-PENTACB (PCB-111) (13C12, 99%) | (235416-29-2) | | | |
| Not listed on the United States TSCA (Toxic Subs | stances Control Act) inventory | | | |
| SARA Section 302 Threshold Planning Quantity (TPQ) | Not subject to reporing 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 reporing requirements of the United States SARA Section 313. | | | |
| N-NONANE UNLABELED (111-84-2) | | | | |
| Listed on the United States TSCA (Toxic Substances 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. | | | | |

15.2. International regulations

CANADA

| METHOD 1668A/B/C CLEAN-UP STANDARD SOLN (13C12, 99%) 1 UG/ML IN NONANE |
|--|
| Listed on the Canadian DSL (Domestic Substances List) |
| 2,3,3',5,5'-PENTACB (PCB-111) (13C12, 99%) (235416-29-2) |
| N-NONANE UNLABELED (111-84-2) |
| Listed on the Canadian DSL (Domestic Substances List) |

15.2.1. National regulations

| 2,2',3,3',5,5',6-HEPTACB (PCB-178) (13C12, 99%) (232919-67-4) | | |
|---|--|--|
| Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List) | | |
| 2,3,3',5,5'-PENTACB (PCB-111) (13C12, 99%) (235416-29-2) | | |
| Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List) | | |
| N-NONANE UNLABELED (111-84-2) | | |

15.3. US State regulations

| U U | | | | | | |
|---|--------------------------------------|---|--------------|------------------|---------------------------|--|
| METHOD 1668A/B/C CLEA | N-UP STANDARD SOLN | (13C12, 99%) 1 U | G/ML IN NONA | NE | | |
| U.S California - Proposition | n 65 - Carcinogens List | No | | | | |
| U.S California - Proposition Toxicity | n 65 - Developmental | No | | | | |
| U.S California - Proposition Toxicity - Female | n 65 - Reproductive | No | | | | |
| U.S California - Proposition 65 - Reproductive Toxicity - Male | | No | No | | | |
| State or local regulations | | U.S Idaho - Non-Carcinogenic Toxic Air Pollutants - Acceptable Ambient Concentrations U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List U.S New York - Reporting of Releases Part 597 - List of Hazardous Substances | | | | |
| 2,2',3,3',5,5',6-HEPTACB (I | PCB-178) (13C12, 99%) (2 | 232919-67-4) | | | | |
| U.S California - | U.S California - Proposition 65 - | U.S Califor | | 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) |
|--------------------------------------|--|---|---|--------|
| Yes | Yes | Yes | Yes | |

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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

| 2,4,4'-TRICB (PCB-28) (13 | 3C12, 99%) (208263-76-7) | | | | |
|---|--|--|-----|-------------------------------------|--|
| U.S California - Proposition 65 - Carcinogens List | U.S California - Proposition 65 - Developmental Toxicity | U.S California - Proposition 65 - Reproductive Toxicity - FemaleU.S California - Proposition 65 - Reproductive Toxicity - MaleNo significant r (NSRL) | | No significant risk level (NSRL) | |
| Yes | Yes | Yes Yes | | | |
| 2,3,3',5,5'-PENTACB (PC | B-111) (13C12, 99%) (235416- | 29-2) | | • | |
| U.S California - Proposition 65 - Carcinogens List | U.S California - Proposition 65 - Developmental Toxicity | U.S California - U.S California - No significant risk Proposition 65 - Proposition 65 - (NSRL) | | No significant risk level (NSRL) | |
| Yes | Yes | Yes | Yes | | |
| N-NONANE UNLABELED | (111-84-2) | | | | |
| U.S California - Proposition 65 - Carcinogens List | U.S California - Proposition 65 - Developmental Toxicity | Proposition 65 - Proposition 65 - (NSRL) | | No significant risk level (NSRL) | |
| No | No | No | No | | |
| 2,2',3,3',5,5',6-HEPTACB | (PCB-178) (13C12, 99%) (232 | 919-67-4) | | | |
| State or local regulations | | | | | |
| U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List | | | | | |
| 2,4,4'-TRICB (PCB-28) (13 | 3C12, 99%) (208263-76-7) | | | | |
| State or local regulations | | | | | |
| U.S Pennsylvania - RTK U.S New Jersey - Right to | (Right to Know) List o Know Hazardous Substance | List | | | |
| 2,3,3',5,5'-PENTACB (PC | B-111) (13C12, 99%) (235416- | 29-2) | | | |
| State or local regulations | | | | | |
| U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance 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 | | | | | |

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 toxicity (dermal) Category 4 |
|--|
| Acute toxicity (inhalation:dust,mist) Category 4 |
| |
| Acute toxicity (inhalation:vapour) Category 4 |
| |
| Acute toxicity (oral) Category 4 |
| Hazardous to the aquatic environment - Acute Hazard Category 1 |
| Hazardous to the aquatic environment - Chronic Hazard Category 1 |
| Aspiration hazard Category 1 |
| Serious eye damage/eye irritation Category 2 |
| Flammable liquids Category 3 |
| Skin corrosion/irritation Category 2 |
| |

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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

| STOT RE 2 | Specific target organ toxicity (repeated exposure) Category 2 |
|--------------|---|
| STOT SE 3 | Specific target organ toxicity (single exposure) Category 3 |
| H226 | Flammable liquid and vapor |
| H302 | Harmful if swallowed |
| H304 | May be fatal if swallowed and enters airways |
| H312 | Harmful in contact with skin |
| H315 | Causes skin irritation |
| H319 | Causes serious eye irritation |
| H332 | Harmful if inhaled |
| H336 | May cause drowsiness or dizziness |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| H400 | Very toxic to aquatic life |
| H410 | Very toxic to aquatic life with long lasting effects |
| R10 | 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 |
| R33 | Danger of cumulative effects |
| R36/38 | Irritating to eyes and skin |
| R48 | Danger of serious damage to health by prolonged exposure |
| R48/20/21/22 | Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed |
| R50/53 | Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment |
| R65 | Harmful: may cause lung damage if swallowed |
| R67 | Vapors may cause drowsiness and dizziness |
| Ν | Dangerous for the environment |
| 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 |

| Health | : | 2 Moderate Hazard - Temporary or minor injury may occur |
|--------------|---|---|
| Flammability | : | 3 Serious Hazard |
| Physical | : | 0 Minimal Hazard |

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