

Safety Data Sheet

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

Rules and Regulations

Date of issue: 23/02/2016 Revision date:

ES-5543

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixtures

Product name. : US EPA METHOD 8276 TOXAPHENE COMPOSITE STOCK STANDARD UNLABELED IN

NONANE

Product code : ES-5543

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

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 <u>cilsales@isotope.com</u> 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) 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 H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

R10 Xn; R20 Xn; R65 Xi; R38

Full text of R-phrases: see section 16

Classification (GHS-US)

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

Adverse physicochemical, human health and environmental effects

Central Nervous System.

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2.2. Label elements

Labeling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)







Signal word (CLP) : Danger

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)







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

Precautionary statements (GHS-US) : 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

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 POISON CENTER or doctor/physician P302+P352 - IF ON SKIN: Wash with plenty of soap and water

P303+P361+P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated

clothing. Rinse skin with water/shower

P304+P340 - IF INHALED: Remove victim to fresh air and keep at rest in a position 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 POISON CENTER/doctor/physician if you feel unwell P321 - Specific treatment (see First aid measures on this label)

P331 - If swallowed, 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 - Take off contaminated clothing and wash before reuse

P370+P378 - In case of fire: Use Carbon dioxide., Dry chemical., Alcohol resistant foam., Water spray for extinction

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

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

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
N-NONANE UNLABELED	(CAS No) 111-84-2 (EC no) 203-913-4	99.99889	R10 Xn; R20 Xn; R65 R67 Xi; R38
2-ENDO,3-EXO,5-ENDO,6-EXO,8,9,10-HEPTACHLORO- BORNANE UNLABELED HP-SED	(CAS No) 208049-58-5	0.00014	Not classified
2-EXO,3-ENDO,6-EXO,8,9,10-HEXACHLOROBORNANE UNLABELED HX-SED	(CAS No) 57981-29-0	0.00014	Not classified
2,3,5,6,8,9,10,10-OCTACHLOROBORNANE UNLABELED PARLAR 40	(CAS No) 166021-27-8	0.00014	Not classified
2-EXO,3-ENDO,5-EXO,8,9,9,10,10-OCTACHLORO- BORNANE UNLABELED PARLAR 41	(CAS No) 165820-16-6	0.00014	Not classified
2-EXO,5,5,8,9,9,10,10-OCTACHLOROBORNANE UNLABELED PARLAR 44	(CAS No) 165820-17-7	0.00014	Not classified
2-ENDO,3-EXO,5-ENDO,6-EXO,8,8,10,10- OCTACHLOROBORNANE UNLABELED PARLAR 26	(CAS No) 142534-71-2 (EC no) 208-759-1 (EC index no) 601-009-00-8	0.00014	F; R11 Xn; R22 Xn; R65 Xi; R38 N; R50/53 R67
2-ENDO,3-EXO,5-ENDO,6-EXO,8,8,9,10,10- NONACHLOROBORNANE UNLABELED PARLAR 50	(CAS No) 66860-80-8	0.00014	Not classified
2,2,5,5,8,9,9,10,10-NONACHLOROBORNANE UNLABELED PARLAR 62	(CAS No) 154159-06-5	0.00014	Not classified
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	99.99889	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-ENDO,3-EXO,5-ENDO,6-EXO,8,9,10-HEPTACHLORO- BORNANE UNLABELED HP-SED	(CAS No) 208049-58-5	0.00014	Not classified
2-EXO,3-ENDO,6-EXO,8,9,10-HEXACHLOROBORNANE UNLABELED HX-SED	(CAS No) 57981-29-0	0.00014	Not classified
2,3,5,6,8,9,10,10-OCTACHLOROBORNANE UNLABELED PARLAR 40	(CAS No) 166021-27-8	0.00014	Not classified
2-EXO,3-ENDO,5-EXO,8,9,9,10,10-OCTACHLORO- BORNANE UNLABELED PARLAR 41	(CAS No) 165820-16-6	0.00014	Not classified
2-EXO,5,5,8,9,9,10,10-OCTACHLOROBORNANE UNLABELED PARLAR 44	(CAS No) 165820-17-7	0.00014	Not classified
2-ENDO,3-EXO,5-ENDO,6-EXO,8,8,10,10- OCTACHLOROBORNANE UNLABELED PARLAR 26	(CAS No) 142534-71-2 (EC no) 208-759-1 (EC index no) 601-009-00-8	0.00014	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-ENDO,3-EXO,5-ENDO,6-EXO,8,8,9,10,10- NONACHLOROBORNANE UNLABELED PARLAR 50	(CAS No) 66860-80-8	0.00014	Not classified
2,2,5,5,8,9,9,10,10-NONACHLOROBORNANE UNLABELED PARLAR 62	(CAS No) 154159-06-5	0.00014	Not classified

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Name	Product identifier	%	Classification (GHS-US)
N-NONANE UNLABELED	(CAS No) 111-84-2	99.99889	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-ENDO,3-EXO,5-ENDO,6-EXO,8,8,10,10- OCTACHLOROBORNANE UNLABELED PARLAR 26	(CAS No) 142534-71-2	0.00014	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : May cause cancer.

First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON

CENTER/doctor/physician if you feel unwell.

First-aid measures after skin contact : 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: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. Get medical advice/attention. Specific treatment (see First aid measures on

this label).

First-aid measures after ingestion : Immediately call a POISON CENTER or doctor/physician.

4.2. Most important symptoms and effects, both acute and delayed

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.

Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways.

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

suitable extinguishing media : For small fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied

fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with

flooding quantities of water.

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 : Vapors may form explosive mixture with air.

5.3. Advice for firefighters

Firefighting instructions : Use water spray to cool unopened containers.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Remove ignition sources. Use special care to avoid static electric charges. No naked lights. No

smoking.

6.1.1. For non-emergency personnel

Emergency procedures : Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours

accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.1.2. For emergency responders

Protective equipment : Avoid breathing dust/fume/gas/mist/vapors/spray.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

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Methods and material for containment and cleaning up

For containment

: Contain spillage, then collect with non-combustible absorbent material. Disposal should be in accordance with applicable Federal, State and local regulations.

Reference to other sections

No additional information available

SECTION 7: Handling and storage

Precautions for safe handling

Additional hazards when processed

: Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling

No naked lights. No smoking. Use only non-sparking tools. Use only outdoors or in a wellventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. In order to avoid inhalation of mist/vapor, all spraying must be

done wearing adequate respirator.

: Wash Both hands thoroughly after handling. Hygiene measures

Conditions for safe storage, including any incompatibilities

: Keep in fireproof place. Keep container tightly closed. Technical measures Storage conditions : Store at room temperature away from light and moisture.

Incompatible materials : Heat sources.

Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. **Control parameters**

US EPA METHOD 8276 TOXAPHENE COMPOSITE STOCK STANDARD UNLABELED IN NONANE		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.0000000000 ppm Central Nervous System impairment.

N-NONANE UNLABELED (111-84-2)

Italy - Portugal - USA ACGIH ACGIH TWA (ppm) 200.0000000000 ppm Central Nervous System impairment.

Exposure controls

Personal protective equipment : Protective clothing. Protective goggles. Self-contained breathing apparatus. Gloves.









Eye protection Wear safety glasses with side shields (or goggles) and a face shield.

Skin and body protection Wear suitable protective clothing.

Respiratory protection Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended. Wear respiratory protection.

SECTION 9: Physical and chemical properties

The properties listed below are for the solvent, the main component of this mixture.

Information on basic physical and chemical properties

Physical state : Liquid **Appearance** : Liquid. Molecular mass 128.3 g/mol Color Colorless.

Odor : No data available Odor threshold : No data available : No data available рΗ Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available : -53 °C (- 63 °F) - lit Freezing point : 151 °C (304 °F) - lit **Boiling point**

Flash point : 31.0 °C (87.8 °F) - closed cup

: 205 °C (401 °F) Self ignition temperature Decomposition temperature : No data available

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Flammability (solid, gas) : No data available

Vapor pressure : 12.4 hPa (9.3 mmHg) at 37.7 °C (99.9 °F)

Relative vapor density at 20 °C : No data available Relative density : No data available

Density : 0.718 g/ml at 25 °C (77 °F)

Solubility : Water: 0 % Log Pow : 5.65

Log Kow : No data available
Viscosity, kinematic : No data available
Viscosity, dynamic : No data available
Explosive properties : No data available
Oxidizing properties : No data available
Explosive limits : 0.87 - 2.9 % (V)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapors may form explosive mixture with air.

10.2. Chemical stability

See storage and expiration date on CoA.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Open flame. Direct sunlight.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Harmful if inhaled.

US EPA METHOD 8276 TOXAPHENE COMPOSITE STOCK STANDARD UNLABELED IN NONANE

ATE (dust, mist) 1.500 mg/l/4h

N-NONANE UNLABELED (111-84-2)	
LC50 inhalation rat (mg/l)	23760 mg/m³ male - 4 h
LC50 inhalation rat (ppm)	3200 ppm/4h
ATE (gases)	3200.000 ppmV/4h
ATE (vapors)	11.000 mg/l/4h
ATE (dust, mist)	23.760 mg/l/4h

2-ENDO,3-EXO,5-ENDO,6-EXO,8,8,10,10- OCTACHLOROBORNANE UNLABELED PARLAR 26 (142534-71-2)

ATE (oral) 500.000 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.
Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified

Specific target organ toxicity (single exposure) : May cause drowsiness or dizziness.

Specific target organ toxicity (repeated

exposure)

: Not classified

Aspiration hazard : May be fatal if swallowed and enters airways.

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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.

Symptoms/injuries after ingestion : May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

2-ENDO,3-EXO,5-ENDO,6-EXO,8,9,10-HEPTACHLORO- BORNANE	UNLABELED HP-SED (208049-58-5)
Z ZNOGO ZNOGO ZNOGO ZNOGO, TO TIZI TNOTIZONO BONNIN	. 0.112, 1322223 111 023 (2000 10 00 0)

Persistence and degradability Not available.

2-EXO,3-ENDO,6-EXO,8,9,10-HEXACHLOROBORNANE UNLABELED HX-SED (57981-29-0)

Persistence and degradability Not available.

2,3,5,6,8,9,10,10-OCTACHLOROBORNANE UNLABELED PARLAR 40 (166021-27-8)

Persistence and degradability Not available.

2-EXO,3-ENDO,5-EXO,8,9,9,10,10-OCTACHLORO- BORNANE UNLABELED PARLAR 41 (165820-16-6)

Persistence and degradability Not available.

2-EXO,5,5,8,9,9,10,10-OCTACHLOROBORNANE UNLABELED PARLAR 44 (165820-17-7)

Persistence and degradability Not available.

2-ENDO,3-EXO,5-ENDO,6-EXO,8,8,10,10- OCTACHLOROBORNANE UNLABELED PARLAR 26 (142534-71-2)

Persistence and degradability Not available.

2-ENDO,3-EXO,5-ENDO,6-EXO,8,8,9,10,10- NONACHLOROBORNANE UNLABELED PARLAR 50 (66860-80-8)

Persistence and degradability Not available.

2,2,5,5,8,9,9,10,10-NONACHLOROBORNANE UNLABELED PARLAR 62 (154159-06-5)

Persistence and degradability Not available.

12.3. Bioaccumulative potential

US EPA METHOD 8276 TOXAPHENE COMPOSITE STOCK STANDARD UNLABELED IN NONANE

Log Pow 5.65

N-NONANE UNLABELED (111-84-2)

Log Pow 5.6 Bioaccumulative potential Inc

2-ENDO,3-EXO,5-ENDO,6-EXO,8,9,10-HEPTACHLORO- BORNANE UNLABELED HP-SED (208049-58-5)

Indication of bioaccumulation.

Bioaccumulative potential Not available.

2-EXO,3-ENDO,6-EXO,8,9,10-HEXACHLOROBORNANE UNLABELED HX-SED (57981-29-0)

Bioaccumulative potential Not available.

2,3,5,6,8,9,10,10-OCTACHLOROBORNANE UNLABELED PARLAR 40 (166021-27-8)

Bioaccumulative potential Not available.

2-EXO,3-ENDO,5-EXO,8,9,9,10,10-OCTACHLORO- BORNANE UNLABELED PARLAR 41 (165820-16-6)

Bioaccumulative potential Not available.

2-EXO,5,5,8,9,9,10,10-OCTACHLOROBORNANE UNLABELED PARLAR 44 (165820-17-7)

Bioaccumulative potential Not available.

2-ENDO,3-EXO,5-ENDO,6-EXO,8,8,10,10- OCTACHLOROBORNANE UNLABELED PARLAR 26 (142534-71-2)

Log Pow 4.6

Bioaccumulative potential Not available.

2-ENDO,3-EXO,5-ENDO,6-EXO,8,8,9,10,10- NONACHLOROBORNANE UNLABELED PARLAR 50 (66860-80-8)

Bioaccumulative potential Not available.

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l	2,2,5,5,8,9,9,10,10-NONACHLOROBORNANE	UNLABELED	PARLAR 62 (154159-06-5)

Bioaccumulative potential Not available.

12.4. Mobility in soil

2-ENDO,3-EXO,5-ENDO,6-EXO,8,9,10-HEPTACHLORO- BORNANE UNLABELED HP-SED (208049-58-5)

Ecology - soil Not available.

2-EXO,3-ENDO,6-EXO,8,9,10-HEXACHLOROBORNANE UNLABELED HX-SED (57981-29-0)

Ecology - soil Not available.

2,3,5,6,8,9,10,10-OCTACHLOROBORNANE UNLABELED PARLAR 40 (166021-27-8)

Ecology - soil Not available.

2-EXO,3-ENDO,5-EXO,8,9,9,10,10-OCTACHLORO-BORNANE UNLABELED PARLAR 41 (165820-16-6)

Ecology - soil Not available.

2-EXO,5,5,8,9,9,10,10-OCTACHLOROBORNANE UNLABELED PARLAR 44 (165820-17-7)

Ecology - soil Not available.

2-ENDO,3-EXO,5-ENDO,6-EXO,8,8,10,10- OCTACHLOROBORNANE UNLABELED PARLAR 26 (142534-71-2)

Ecology - soil Not available.

2-ENDO,3-EXO,5-ENDO,6-EXO,8,8,9,10,10- NONACHLOROBORNANE UNLABELED PARLAR 50 (66860-80-8)

Ecology - soil Not available.

2,2,5,5,8,9,9,10,10-NONACHLOROBORNANE UNLABELED PARLAR 62 (154159-06-5)

Ecology - soil Not available.

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste disposal recommendations : Dispose of contents/container to Comply with local regulations for disposal.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Hazardous waste due to toxicity.

SECTION 14: Transport information

In accordance with ADR / RID / ADNR / IMDG / ICAO / IATA

14.1. UN number

UN-No.(DOT) : 1920 DOT NA no. UN1920

14.2. UN proper shipping name

DOT Proper Shipping Name : Nonanes

Department of Transportation (DOT) Hazard

Classes

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

Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : III - Minor Danger

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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..... 178.275(d)(3)

TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 242
Marine pollutant : No

14.3. Additional information

Other information : No supplementary information available.

Overland transport

Packing group (ADR) : III

Class (ADR) : 3 - Flammable liquid

Hazard identification number (Kemler No.) : 30
Classification code (ADR) : F1

Danger labels (ADR) : 3 - Flammable liquids



Orange plates

30 1920

Tunnel restriction code : D/E
Limited quantities (ADR) 5L
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.

MFAG-No : 128

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)

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

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

SECTION 15: Regulatory information

15.1. US Federal regulations

N-NONANE UNLABELED (111-84-2)	
SARA Section 311/312 Hazard Classes	Fire hazard
	Immediate (acute) health hazard

2-ENDO,3-EXO,5-ENDO,6-EXO,8,8,10,10- OCTACHLOROBORNANE UNLABELED PARLAR 26 (142534-71-2)	
	,
Listed on SARA Section 302 (Specific toxic chemical listings)	
Listed on SARA Section 313 (Specific toxic chemical listings)	
Edited on Critical Control (Opening texto one mount go)	
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
	Delayed (chronic) health hazard

15.2. International regulations

CANADA

2-ENDO,3-EXO,5-ENDO,6-EXO,8,8,10,10- OCTACHLOROBORNANE UNLABELED PARLAR 26 (142534-71-2)

Not listed on the Canadian DSL (Domestic Substances List) inventory.

15.2.1. National regulations

No additional information available

15.3. US State regulations

N-NONANE UNLABELED (111-84-2)

- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

2-ENDO,3-EXO,5-ENDO,6-EXO,8,8,10,10- OCTACHLOROBORNANE UNLABELED PARLAR 26 (142534-71-2)

- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Right to Know Hazardous Substance List

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

SECTION 16: Other information

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

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
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 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Asp. Tox. 1	Aspiration hazard Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled

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H336	May cause drowsiness or dizziness
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R10	Flammable
R11	Highly flammable
R20	Harmful by inhalation
R22	Harmful if swallowed
R38	Irritating to skin
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
F	Highly flammable
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

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

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