

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: 03/11/2014 Revision date: 22/09/2021 Supersedes: 03/11/2014 Version: 2.0

EC-1430

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

1.1. Product identifier

Product form : Mixtures

Product name : PCB WINDOW DEFINING MIXTURE UNLABELED (DB-5) 2.5 UG/ML IN ISOOCTANE

Product code : EC-1430

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

1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA

USA: 1-800-322-1174 Int: 1-978-749-8000 <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. 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 hazard classes and H-statements : see section 16

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

F; R11 Xn; R65 Xi; R38 N; R50/53 R67

Full text of R-phrases: see section 16

GHS-US classification

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 H statements : see section 16

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Adverse physicochemical, human health and environmental effects

Liver, Kidney. Highly flammable liquid and vapor. May cause drowsiness or dizziness. Causes skin irritation. May be fatal if swallowed and enters airways. Very toxic to aquatic life with long lasting effects.

Label elements

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

Hazard pictograms (CLP)









Signal word (CLP) : Danger

H225 - Highly flammable liquid and vapor Hazard statements (CLP)

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

H410 - Very toxic to aquatic life with long lasting effects

Precautionary statements (CLP) P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smokina.

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.

P273 - Avoid release to the environment.

GHS-US labeling

Hazard pictograms (GHS-US)

Precautionary statements (GHS-US)









Signal word (GHS-US) : Danger

H225 - Highly flammable liquid and vapor Hazard statements (GHS-US)

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H336 - May cause drowsiness or dizziness

H400 - Very toxic to aquatic life

H410 - Very toxic to aquatic life with long lasting effects

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.

P273 - Avoid release to the environment.

P280 - Wear protective clothing, protective gloves.

P301+P310 - If swallowed: Immediately call a poison center or doctor

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

P312 - Call a poison center or doctor 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. P362 - Take off contaminated clothing and wash before reuse.

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

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spray to extinguish.

P391 - Collect spillage.

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

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

P405 - Store locked up.

P501 - Dispose of contents/container to 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
ISOOCTANE UNLABELED	(CAS-No.) 540-84-1 (EC-No.) 208-759-1 (EC Index-No.) 601-009-00-8 (REACH-no) 01-2119457965-22	97.4018	Xi; R38 N; R50/53 R67 F; R11 Xn; R65
N-NONANE UNLABELED	(CAS-No.) 111-84-2 (EC-No.) 203-913-4	2.59098	R10 Xn; R20 Xn; R65 Xi; R36/38 R67
BIPHENYL UNLABELED	(CAS-No.) 92-52-4 (EC-No.) 202-163-5 (EC Index-No.) 601-042-00-8	0.000361	Xi; R36/37/38 N; R50/53
3,3',4,4',5,5'-HEXACB UNLABELED	(CAS-No.) 32774-16-6 (EC Index-No.) 602-039-00-4	0.000361	N; R50/53 Xn; R22
3,3',4,4',5-PENTACB UNLABELED	(CAS-No.) 57465-28-8 (EC Index-No.) 602-039-00-4	0.000361	R33
3,3',4,4'-TETRACB UNLABELED	(CAS-No.) 32598-13-3 (EC Index-No.) 602-039-00-4	0.000361	R33 N; R50/53
DECACHLOROBIPHENYL UNLABELED	(CAS-No.) 2051-24-3 (EC-No.) 218-115-1 (EC Index-No.) 602-039-00-4	0.000361	Carc.Cat.1;R45 Carc.Cat.1;R49 Repr.Cat.1;R60 Repr.Cat.1;R61 Xn;R20/21/22 Xi;R38 N;R50/53
3,4,4'-TRICB UNLABELED	(CAS-No.) 38444-90-5	0.000361	Xn; R22 Xi; R41 N; R50/53
2,2',6,6'-TETRACB UNLABELED	(CAS-No.) 15968-05-5 (Unlabeled)	0.000361	T+; R28 N; R50/53
2,3,3',4,4',5,5'-HEPTACB UNLABELED	(CAS-No.) 39635-31-9 (EC Index-No.) 602-039-00-4	0.000361	R33
2-MONOCB UNLABELED	(CAS-No.) 2051-60-7 (EC-No.) 218-125-6	0.000361	Xn; R48/20
4-MONOCB UNLABELED	(CAS-No.) 2051-62-9 (EC-No.) 218-127-7	0.000361	Xn; R48/20
2,6-DICB UNLABELED	(CAS-No.) 33146-45-1	0.000361	N; R50/53 Xn; R48/20
4,4'-DICB UNLABELED	(CAS-No.) 2050-68-2 (EC-No.) 218-095-4	0.000361	N; R50/53
2,4,6-TRICB UNLABELED	(CAS-No.) 35693-92-6 (EC Index-No.) 602-039-00-4	0.000361	Not classified
2,2',4,6,6'-PENTACB UNLABELED	(CAS-No.) 56558-16-8	0.000361	N; R50/53
2,2',4,4',6,6'-HEXACB UNLABELED	(CAS-No.) 33979-03-2	0.000361	Not classified

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
2,2',3,4',5,6,6'-HEPTACB UNLABELED	(CAS-No.) 74487-85-7	0.000361	Xn; R20 Xn; R48/20 N; R50/53
2,2',3,3',4,4',5,5'-OCTACB UNLABELED	(CAS-No.) 35694-08-7	0.000361	Xn; R48/20 N; R50/53
2,2',3,3',4,4',5,5',6-NONACB UNLABELED	(CAS-No.) 40186-72-9	0.000361	R33
2,2',3,3',4,5,5',6,6'-NONACB UNLABELED	(CAS-No.) 52663-77-1 (EC Index-No.) 602-039-00-4	0.000361	R33
2,2',3,3',5,5',6,6'-OCTACB UNLABELED	(CAS-No.) 2136-99-4	0.000361	Xn; R48/20/21/22 N; R50/53 R33
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ISOOCTANE UNLABELED	(CAS-No.) 540-84-1 (EC-No.) 208-759-1 (EC Index-No.) 601-009-00-8 (REACH-no) 01-2119457965-22	97.4018	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
N-NONANE UNLABELED	(CAS-No.) 111-84-2 (EC-No.) 203-913-4	2.59098	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
BIPHENYLUNLABELED	(CAS-No.) 92-52-4 (EC-No.) 202-163-5 (EC Index-No.) 601-042-00-8	0.000361	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,3',4,4',5,5'-HEXACB UNLABELED	(CAS-No.) 32774-16-6 (EC Index-No.) 602-039-00-4	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,3',4,4',5-PENTACB UNLABELED	(CAS-No.) 57465-28-8 (EC Index-No.) 602-039-00-4	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,3',4,4'-TETRACB UNLABELED	(CAS-No.) 32598-13-3 (EC Index-No.) 602-039-00-4	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
DECACHLOROBIPHENYL UNLABELED	(CAS-No.) 2051-24-3 (EC-No.) 218-115-1 (EC Index-No.) 602-039-00-4	0.000361	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Carc. 1A, H350 Repr. 1A, H360 STOT SE 2, H371 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,4,4'-TRICB UNLABELED	(CAS-No.) 38444-90-5	0.000361	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
2,2',6,6'-TETRACB UNLABELED	(CAS-No.) 15968-05-5 (Unlabeled)	0.000361	Carc. 1B, H350i STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3,3',4,4',5,5'-HEPTACB UNLABELED	(CAS-No.) 39635-31-9 (EC Index-No.) 602-039-00-4	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-MONOCB UNLABELED	(CAS-No.) 2051-60-7 (EC-No.) 218-125-6	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-MONOCB UNLABELED	(CAS-No.) 2051-62-9 (EC-No.) 218-127-7	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,6-DICB UNLABELED	(CAS-No.) 33146-45-1	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
4,4'-DICB UNLABELED	(CAS-No.) 2050-68-2 (EC-No.) 218-095-4	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4,6-TRICB UNLABELED	(CAS-No.) 35693-92-6 (EC Index-No.) 602-039-00-4	0.000361	Carc. 1B, H350i STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',4,6,6'-PENTACB UNLABELED	(CAS-No.) 56558-16-8	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',4,4',6,6'-HEXACB UNLABELED	(CAS-No.) 33979-03-2	0.000361	Carc. 1B, H350i STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,4',5,6,6'-HEPTACB UNLABELED	(CAS-No.) 74487-85-7	0.000361	Carc. 1B, H350 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,3',4,4',5,5'-OCTACB UNLABELED	(CAS-No.) 35694-08-7	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,3',4,4',5,5',6-NONACB UNLABELED	(CAS-No.) 40186-72-9	0.000361	Carc. 1B, H350 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,3',4,5,5',6,6'-NONACB UNLABELED	(CAS-No.) 52663-77-1 (EC Index-No.) 602-039-00-4	0.000361	Carc. 1B, H350 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,3',5,5',6,6'-OCTACB UNLABELED	(CAS-No.) 2136-99-4	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Name	Product identifier	%	GHS-US classification
ISOOCTANE UNLABELED	(CAS-No.) 540-84-1	97.4018	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
N-NONANE UNLABELED	(CAS-No.) 111-84-2	2.59098	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304
BIPHENYL UNLABELED	(CAS-No.) 92-52-4	0.000361	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,3',4,4',5,5'-HEXACB UNLABELED	(CAS-No.) 32774-16-6	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,3',4,4',5-PENTACB UNLABELED	(CAS-No.) 57465-28-8	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,3',4,4'-TETRACB UNLABELED	(CAS-No.) 32598-13-3	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
DECACHLOROBIPHENYL UNLABELED	(CAS-No.) 2051-24-3	0.000361	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Carc. 1A, H350 Repr. 1A, H360 STOT SE 2, H371 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,4,4'-TRICB UNLABELED	(CAS-No.) 38444-90-5	0.000361	Acute Tox. 4 (Oral), H302 Eye Dam.1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	GHS-US classification
2,2',6,6'-TETRACB UNLABELED	(CAS-No.) 15968-05-5 (Unlabeled)	0.000361	Carc. 1B, H350 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3,3',4,4',5,5'-HEPTACB UNLABELED	(CAS-No.) 39635-31-9	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-MONOCB UNLABELED	(CAS-No.) 2051-60-7	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-MONOCB UNLABELED	(CAS-No.) 2051-62-9	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,6-DICB UNLABELED	(CAS-No.) 33146-45-1	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4,4'-DICB UNLABELED	(CAS-No.) 2050-68-2	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4,6-TRICB UNLABELED	(CAS-No.) 35693-92-6	0.000361	Carc. 1B, H350 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',4,6,6'-PENTACB UNLABELED	(CAS-No.) 56558-16-8	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',4,4',6,6'-HEXACB UNLABELED	(CAS-No.) 33979-03-2	0.000361	Carc. 1B, H350 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,4',5,6,6'-HEPTACB UNLABELED	(CAS-No.) 74487-85-7	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,3',4,4',5,5'-OCTACB UNLABELED	(CAS-No.) 35694-08-7	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,3',4,4',5,5',6-NONACB UNLABELED	(CAS-No.) 40186-72-9	0.000361	Carc. 1B, H350 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,3',4,5,5',6,6'-NONACB UNLABELED	(CAS-No.) 52663-77-1	0.000361	Carc. 1B, H350 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,3',5,5',6,6'-OCTACB UNLABELED	(CAS-No.) 2136-99-4	0.000361	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

SECTION 4: First aid measures

: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical First-aid measures general

advice (show the label where possible).

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

POISON CENTER or doctor/physician if you feel unwell.

Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash First-aid measures after skin contact

with plenty of soap and water. Wash contaminated clothing before reuse. Get medical

advice/attention.

Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness First-aid measures after eye contact

First-aid measures after ingestion Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : May cause drowsiness or dizziness.

: Causes skin irritation. Symptoms/effects after skin contact Symptoms/effects after eye contact : May cause eye irritation.

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

Indication of any immediate medical attention and special treatment needed

No additional information available

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SECTION 5: Firefighting measures

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 : Highly flammable liquid and vapor.

Explosion hazard : May form flammable/explosive vapor-air mixture.

Reactivity : Vapor is explosive with air above.

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.

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 open flames. No

smoking.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection. Avoid breathing dust, mist or spray.

Emergency procedures : Ventilate area

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Vacuum with an equipment that avoids ignition risk. This material and its container must be

disposed of in a safe way, and as per local legislation. Collect spillage.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect

spillage. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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. Use only non-sparking tools. Avoid breathing dust, mist or spray. Use only outdoors or in a well-ventilated area.

or spray, use only outdoors or in a well-vertiliated latea.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. 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

BIPHENYL UNLABELED (92-52-4)					
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0.20000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)			

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BIPHENYL UNLABELED (92-	52-4)	
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Pulmonary function.
USA NIOSH	NIOSH REL (TWA) (mg/m³)	1 mg/m³ Basis: USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TWA) (ppm)	0.2 ppm Basis: USA. NIOSH Recommended Exposure Limits
USA OSHA	OSHA PEL (TWA) (mg/m³)	1 mg/m³ Basis: USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (TWA) (ppm)	0.2 ppm Basis: USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	1.5 mg/m³ Basis: California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (Ceiling) (ppm)	0.2 ppm Basis: California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	Remark (OSHA)	The value in mg/m3 is approximate.
DECACHLOROBIPHENYL U	NLABELED (2051-24-3)	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	0.001 mg/m³ USA. NIOSH Recommended Exposure Limits. Remarks: Potential Occupational Carcinogen.
N-NONANE UNLABELED (11	1-84-2)	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.00000000 ppm USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	CNS impair
USA NIOSH	NIOSH REL (TWA) (mg/m³)	1050 mg/m³ 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/m³ 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/m³)	1050 California permissible exposure limits for chemical contaminants.
USA OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm California permissible exposure limits for chemical contaminants.
ISOOCTANE UNLABELED (5	540-84-1)	
ltaly - Portugal - USA ACGIH	ACGIH TWA (ppm)	300.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Upper Respiratory Tract irritation

8.2. Exposure controls

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



Hand protection : Wear protective gloves.

Eye protection : Chemical goggles or 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.

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.

Physical state : Liquid

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: Liquid **Appearance** Molecular mass : 114.23 g/mol Colorless Color Characteristic Odor No data available Odor threshold No data available рΗ : No data available Relative evaporation rate (butyl acetate=1) : -107 °C (-161 °F) Melting point Freezing point : No data available

: 98 - 99 °C (208 - 210 °F) at 1,013 hPa (760 mmHg) **Boiling** point

: -12 °C (10 °F) - closed cup Flash point

 No data available Auto-ignition temperature No data available Decomposition temperature

Flammability (solid, gas) : Highly flammable liquid and vapor

55 hPa (41 mmHg) at 21 °C (70 °F); 117 hPa (88 mmHg) at 37.8 °C (100.04 °F) Vapor pressure

Relative vapor density at 20 °C 3.94 - (Air = 1.0)Relative density No data available

Specific gravity / density : 0.69 g/ml at 20 °C (68 °F)

Water: insoluble Solubility

Log Pow · 4.6

Log Kow No data available : No data available Viscosity, kinematic Viscosity, dynamic : No data available · No data available Explosive properties Oxidizing properties No data available : 1-6% (V) **Explosion limits**

Other information

No additional information available

SECTION 10: Stability and reactivity

Reactivity

Vapor is explosive with air above.

10.2. **Chemical stability**

See storage and expiration date on CoA.

Possibility of hazardous reactions 10.3.

Not established.

Conditions to avoid 10.4.

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

Incompatible materials

Strong acids. Strong bases.

Hazardous decomposition products

Carbon monoxide. Carbon dioxide. May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

: Not classified Acute toxicity

BIPHENYL UNLABELED (92-52-4)		
LD50 dermal rabbit	> 5010 mg/kg	
DECACHLOROBIPHENYL UNLABELED (2051-24-3)		
ATE CLP (oral)	500.000 mg/kg body weight	
ATE CLP (dermal)	1100.000 mg/kg body weight	
ATE CLP (gases)	4500.000 ppmV/4h	
ATE CLP (vapors)	11.000 mg/l/4h	
ATE CLP (dust, mist)	1.500 mg/l/4h	

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o, 2012 / Ruies and Regulations		
3,4,4'-TRICB UNLABELED (38444-90-5)		
	500.000 mg/kg body weight	
N-NONANE UNLABELED (111-84-2)		
	23760 mg/m³ male - 4 h	
	11.000 mg/l/4h	
	Result: Skin Irritation (Draize Test)	
	: S. Typhimurium Result: negative	
	> 5000 mg/kg (OECD Test Guideline 401)	
	> 2000 mg/kg (OECD Test Guideline 402)	
	> 33.52 mg/l/4h (OECD Test Guideline 403)	
:	Causes skin irritation.	
:	Not classified	
:	May cause drowsiness or dizziness.	
:	Not classified	
:	May be fatal if swallowed and enters airways.	
:	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.	
:	May cause drowsiness or dizziness.	
:	Causes skin irritation.	
:	May cause eye irritation.	
:	May be fatal if swallowed and enters airways.	
	: : : : :	

SECTION 12: Ecological information

12.1. Toxicity		
Ecology - water	: Very toxic to aquatic life with long lasting effects.	
BIPHENYL UNLABELED (92-52-4)		
LC50 fish 1	3 mg/l flow-through test LC50 - Pimephales promelas (fathead minnow) - 96 h (OECD Test Guideline 203)	
EC50 Daphnia 1	0.36 mg/l flow-through test EC50 - Daphnia magna (Water flea) - 48 h	
3,3',4,4'-TETRACB UNLABELED	(32598-13-3)	
LC50 fish 1	> 0.002 mg/l Pimephales promelas (fathead minnow) - 96 h	
EC50 Daphnia 1	> 0.002 mg/l Daphnia magna (Water flea) - 48 h	
NOEC (chronic)	0.1 mg/l Oncorhynchus mykiss (rainbow trout) - 7 d	
3,4,4'-TRICB UNLABELED (38444-90-5)		
LC50 fish 1	0.034 mg/l Pimephales promelas (fathead minnow) - 96 h	
2,2',6,6'-TETRACB UNLABELED (15968-05-5 (Unlabeled))		
LC50 fish 1	Pimephales promelas (fathead minnow) - 96 h	
EC50 Daphnia 1	Daphnia magna (Water flea) - 48 h	
NOEC (chronic)	0.1 mg/l Oncorhynchus mykiss (rainbow trout) - 7 d	

2,3,3',4,4',5,5'-HEPTACB UNLABELED (39635-31-9)		
LC50 fish 1	> 0.16 mg/l Pimephales promelas (fathead minnow) - 96 h	
EC50 Daphnia 1	> 0.16 mg/l Daphnia magna (Water flea) - 48 h	
2-MONOCB UNLABELED (2051-60-7)		
LC50 fish 1	0.54 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h	
EC50 Daphnia 1	0.71 mg/l Daphniia magna (Water flea) - 48 h	
4-MONOCB UNLABELED (2051-62-9)		
LC50 fish 1	0.72 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h	

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4-MONOCB UNLABELED (2051-62-9)			
EC50 Daphnia 1	0.42 mg/l Daphnia magna (Water flea) - 48 h		
4,4'-DICB UNLABELED (2050-68-2)			
EC50 Daphnia 1	0.45 mg/l Daphnia Magna (Water flea) - 48 h		
12.2. Persistence and degradability			
PCB WINDOW DEFINING MIXTURE UNLABEL			
Persistence and degradability	May cause long-term adverse effects in the environment.		
BIPHENYL UNLABELED (92-52-4)			
Persistence and degradability	Aerobic - Exposure time 14 d.		
Biodegradation	84 % - Readily biodegradable (OECD Test 301C)		
DECACHLOROBIPHENYL UNLABELED (2051	-24-3)		
Persistence and degradability	May cause long-term adverse effects in the environment.		
12.3. Bioaccumulative potential			
PCB WINDOW DEFINING MIXTURE UNLABEL	.ED (DB-5) 2.5 UG/ML IN ISOOCTANE		
Log Pow	4.6		
Bioaccumulative potential	Not established.		
BIPHENYL UNLABELED (92-52-4)	BIPHENYL UNLABELED (92-52-4)		
BCF fish 1	50 ug/l - Leuciscus idus (Golden orfe) - 3 d		
Bioconcentration factor (BCF REACH)	281		
Log Pow	4.008 at 25 °C (77 °F)		
3,3',4,4'-TETRACB UNLABELED (32598-13-3)			
Bioconcentration factor (BCF REACH)	81.5		
Bioaccumulative potential	Bioaccumulation: Oryzias latipes - 20 d Bioconcentration factor (BCF): 81.5.		
4-MONOCB UNLABELED (2051-62-9)			
BCF fish 1	>= 0.5 mg/l Oryzias latipes - 20 d		
Bioconcentration factor (BCF REACH)	>= 54		
N-NONANE UNLABELED (111-84-2)			
Log Pow	5.65		
Bioaccumulative potential	Indication of bioaccumulation.		
ISOOCTANE UNLABELED (540-84-1)			

12.4. Mobility in soil

Log Pow

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other information : Avoid release to the environment.

4.6

SECTION 13: Disposal considerations

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 Comply with applicable regulations.

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

Ecology - waste materials : Avoid release to the environment. Hazardous waste due to toxicity.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No.(DOT) : 1262 DOT NA no. UN1262

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14.2. UN proper shipping name

Proper Shipping Name (DOT) : Octanes

Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

Hazard labels (DOT) : 3 - Flammable liquid

FLAMMABLE LIQUID

Packing group (DOT) : II - Medium Danger

DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite

(31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.

T4 - 2.65 178.274(d)(2) Normal...... 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) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 242

14.3. Additional information

Other information : No supplementary information available.

Overland transport

Packing group (ADR) : II

Class (ADR) : 3 - Flammable liquid

Hazard identification number (Kemler No.) : 33 Classification code (ADR) : F1

Hazard labels (ADR) : 3 - Flammable liquids



Orange plates :



Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) 11
EAC : 3YE
Excepted quantities (ADR) : E2

Transport by sea

DOT Vessel Stowage Location : B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a

passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this

section is exceeded.

MFAG-No : 128

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

· . J L

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

Civil Aeronautics Law : Flammable liquids

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14.4. Environmental hazards

Dangerous for the environment



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				
5.1. US Federal regulations				
PCB WINDOW DEFINING MIXTURE UNLABELED (DB-5) 2.5 UG/ML IN ISOOCTANE				
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	Fire hazard Delayed (chronic) health hazard			
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.			
BIPHENYL UNLABELED (92-52-4)				
Subject to reporting requirements of United States SARA Section 313				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard			
3,3',4,4',5,5'-HEXACB UNLABELED (32774-16-	6)			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
3,3',4,4',5-PENTACB UNLABELED (57465-28-8				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
3,3',4,4'-TETRACB UNLABELED (32598-13-3)				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
DECACHLOROBIPHENYL UNLABELED (2051-	-24-3)			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
3,4,4'-TRICB UNLABELED (38444-90-5)				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
2,2',6,6'-TETRACB UNLABELED (15968-05-5 (Unlabeled))				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
2,3,3',4,4',5,5'-HEPTACB UNLABELED (39635-31-9)				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
2-MONOCB UNLABELED (2051-60-7)				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard			

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20,2012/ Nules and Negulations				
2-MONOCB UNLABELED (2051-60-7)				
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
4-MONOCB UNLABELED (2051-62-9)				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
2,6-DICB UNLABELED (33146-45-1)				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
4,4'-DICB UNLABELED (2050-68-2)				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
2,2',4,6,6'-PENTACB UNLABELED (56558-16-8)				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
N-NONANE UNLABELED (111-84-2)				
Listed on the United States TSCA (Toxic Substan	nces 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.			
ISOOCTANE UNLABELED (540-84-1)				
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	Fire hazard Delayed (chronic) health hazard			
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.			
2,2',4,4',6,6'-HEXACB UNLABELED (33979-03-2	2)			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
2,2',3,4',5,6,6'-HEPTACB UNLABELED (74487-	35-7)			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
2,2',3,3',4,4',5,5'-OCTACB UNLABELED (35694	-08-7)			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
2,2',3,3',4,4',5,5',6-NONACB UNLABELED (40186-72-9)				
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
2,2',3,3',4,5,5',6,6'-NONACB UNLABELED (526	63-77-1)			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
2,2',3,3',5,5',6,6'-OCTACB UNLABELED (2136-	99-4)			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			

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2,2',3,3',5,5',6,6'-OCTACB UNLABELED (2136-99-4)	
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.

15.2. International regulations

CANADA

PCB WINDOW DEFINING MIXTURE UNLABELED (DB-5) 2.5 UG/ML IN ISOOCTANE

Listed on the Canadian DSL (Domestic Substances List)

BIPHENYL UNLABELED (92-52-4)

Listed on the Canadian DSL (Domestic Substances List)

N-NONANE UNLABELED (111-84-2)

Listed on the Canadian DSL (Domestic Substances List)

National regulations 15.2.1.

N-NONANE UNLABELED (111-84-2)

15.3. US State regulation	ons			
PCB WINDOW DEFININ	G MIXTURE UNLABELED (D	B-5) 2.5 UG/ML IN ISOOCTANI	E()	
U.S California - Proposition 65 - Carcinogens List		No		
U.S California - Proposition 65 - Developmental Toxicity		No		
U.S California - Proposition 65 - Reproductive Toxicity - Female		No		
U.S California - Propos Toxicity - Male	sition 65 - Reproductive	No		
State or local regulations		U.S Massachusetts - Right To Know List U.S Pennsylvania - RTK (Right to Know) List U.S New Jersey - Right to Know Hazardous Substance List		
BIPHENYL UNLABELED	O (92-52-4)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
3,3',4,4',5,5'-HEXACB U	NLABELED (32774-16-6)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	Yes	Yes	Yes	
3,3',4,4',5-PENTACB UN	NLABELED (57465-28-8)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	Yes	Yes	Yes	
3,3',4,4'-TETRACB UNL	ABELED (32598-13-3)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	Yes	Yes	Yes	
DECACHLOROBIPHENY	/L UNLABELED (2051-24-3)			
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
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	L UNLABELED (2051-24-3)	Τ		
Yes	Yes	No	No	
3,4,4'-TRICB UNLABELE	D (38444-90-5)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	,
3		Female	Male	
Yes	Yes	Yes	Yes	
			1 65	
2,2',6,6'-1ETRACE UNLA U.S California -	ABELED (15968-05-5 (Unlabele U.S California -	U.S California -	U.S California -	No significant rials lavel
Proposition 65 -				No significant risk level
•	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
No	No	No	No	
2,3,3',4,4',5,5'-HEPTACB	UNLABELED (39635-31-9)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	· ·
		Female	Male	
Yes	Yes	No	No	
2-MONOCB UNLABELE) (2051-60-7)			<u> </u>
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	(NOINE)
Carcinogens List	Developmental Toxicity	Female	Male	
Yes	Yes	Yes	Yes	
4-MONOCB UNLABELE				
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
Yes	Yes	Yes	Yes	
2,6-DICB UNLABELED (33146-45-1)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	(NONE)
Carcinogens List	Developmental Toxicity	Female	Male	
Yes	Yes	Yes	Yes	
4,4'-DICB UNLABELED (-			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
Yes	Yes	Yes	Yes	
2,4,6-TRICB UNLABELE	D (35693-92-6)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	,
	2010.0pona Toxiony	Female	Male	
No	No	No	No	
2,2',4,6,6'-PENTACB UN	Ι ΔRFI FD /56559-16-9\			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	(1.0.1.2)
Ca.oniogono Elot	2010.0pmontal Toxions	Female	Male	
		1 OTTAIO	IVIAIC	I

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	111-84-2)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
No	No	No	No	
SOOCTANE UNLABELED	(540-84-1)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	, ,
J		Female	Male	
No	No	No	No	
2,2',4,4',6,6'-HEXACB UNLA	ABELED (33979-03-2)		<u> </u>	
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
-		Female	Male	
Yes	Yes	Yes	Yes	
2,2',3,4',5,6,6'-HEPTACB UI	NLABELED (74487-85-7)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
Yes	Yes	No	No	
2,2',3,3',4,4',5,5'-OCTACB U	JNLABELED (35694-08-7)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
Yes	Yes	Yes	Yes	
2,2',3,3',4,4',5,5',6-NONACB	UNLABELED (40186-72-9)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
1 10 P 0 0 111 0 11 0 0 -	l _ `	Reproductive Toxicity -	Reproductive Toxicity -	, ,
	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
	Developmental Toxicity	Female	Male	
Carcinogens List	Developmental Toxicity Yes			
Carcinogens List Yes 2,2',3,3',4,5,5',6,6'-NONACB	Yes UNLABELED (52663-77-1)	Female Yes	Male Yes	
Carcinogens List Yes 2,2',3,3',4,5,5',6,6'-NONACB U.S California -	Yes	Female Yes U.S California -	Male Yes U.S California -	No significant risk level
Carcinogens List Yes 2,2',3,3',4,5,5',6,6'-NONACB U.S California -	Yes UNLABELED (52663-77-1)	Female Yes	Male Yes	No significant risk level (NSRL)
Carcinogens List Yes 2,2',3,3',4,5,5',6,6'-NONACB U.S California - Proposition 65 -	Yes UNLABELED (52663-77-1) U.S California -	Female Yes U.S California -	Male Yes U.S California -	_
Carcinogens List Yes 2,2',3,3',4,5,5',6,6'-NONACB	Yes UNLABELED (52663-77-1) U.S California - Proposition 65 -	Yes U.S California - Proposition 65 -	Male Yes U.S California - Proposition 65 -	No significant risk level (NSRL)
Yes 2,2',3,3',4,5,5',6,6'-NONACB U.S California - Proposition 65 - Carcinogens List	Yes UNLABELED (52663-77-1) U.S California - Proposition 65 -	Yes U.S California - Proposition 65 - Reproductive Toxicity -	Male Yes U.S California - Proposition 65 - Reproductive Toxicity -	_
Carcinogens List Yes 2,2',3,3',4,5,5',6,6'-NONACB U.S California - Proposition 65 - Carcinogens List Yes	Yes UNLABELED (52663-77-1) U.S California - Proposition 65 - Developmental Toxicity Yes	Yes U.S California - Proposition 65 - Reproductive Toxicity - Female	Male Yes U.S California - Proposition 65 - Reproductive Toxicity - Male	_
Yes 2,2',3,3',4,5,5',6,6'-NONACB U.S California - Proposition 65 - Carcinogens List Yes 2,2',3,3',5,5',6,6'-OCTACB U.S California -	Yes UNLABELED (52663-77-1) U.S California - Proposition 65 - Developmental Toxicity Yes JNLABELED (2136-99-4) U.S California -	Female Yes U.S California - Proposition 65 - Reproductive Toxicity - Female Yes U.S California -	Male Yes U.S California - Proposition 65 - Reproductive Toxicity - Male Yes U.S California -	_
Carcinogens List Yes 2,2',3,3',4,5,5',6,6'-NONACB U.S California - Proposition 65 -	Yes UNLABELED (52663-77-1) U.S California - Proposition 65 - Developmental Toxicity Yes JNLABELED (2136-99-4)	Yes U.S California - Proposition 65 - Reproductive Toxicity - Female Yes U.S California - Proposition 65 -	Male Yes U.S California - Proposition 65 - Reproductive Toxicity - Male Yes	(NSRL)
Yes 2,2',3,3',4,5,5',6,6'-NONACB U.S California - Proposition 65 - Carcinogens List Yes 2,2',3,3',5,5',6,6'-OCTACB U.S California -	Yes UNLABELED (52663-77-1) U.S California - Proposition 65 - Developmental Toxicity Yes JNLABELED (2136-99-4) U.S California -	Female Yes U.S California - Proposition 65 - Reproductive Toxicity - Female Yes U.S California -	Male Yes U.S California - Proposition 65 - Reproductive Toxicity - Male Yes U.S California -	(NSRL) No significant risk level
Yes 2,2',3,3',4,5,5',6,6'-NONACB U.S California - Proposition 65 - Carcinogens List Yes 2,2',3,3',5,5',6,6'-OCTACB U U.S California - Proposition 65 -	Yes UNLABELED (52663-77-1) U.S California - Proposition 65 - Developmental Toxicity Yes JNLABELED (2136-99-4) U.S California - Proposition 65 -	Yes U.S California - Proposition 65 - Reproductive Toxicity - Female Yes U.S California - Proposition 65 -	Male Yes U.S California - Proposition 65 - Reproductive Toxicity - Male Yes U.S California - Proposition 65 -	(NSRL) No significant risk level
Yes 2,2',3,3',4,5,5',6,6'-NONACB J.S California - Proposition 65 - Carcinogens List Yes 2,2',3,3',5,5',6,6'-OCTACB U J.S California - Proposition 65 -	Yes UNLABELED (52663-77-1) U.S California - Proposition 65 - Developmental Toxicity Yes JNLABELED (2136-99-4) U.S California - Proposition 65 -	Yes U.S California - Proposition 65 - Reproductive Toxicity - Female Yes U.S California - Proposition 65 - Reproductive Toxicity -	Male Yes U.S California - Proposition 65 - Reproductive Toxicity - Male Yes U.S California - Proposition 65 - Reproductive Toxicity -	(NSRL) No significant risk level

State or local regulations

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

3,3',4,4',5,5'-HEXACB UNLABELED (32774-16-6)

State or local regulations

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

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3,3',4,4',5-PENTACB UNLABELED (57465-28-8)

State or local regulations

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

3,3',4,4'-TETRACB UNLABELED (32598-13-3)

State or local regulations

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

DECACHLOROBIPHENYL UNLABELED (2051-24-3)

State or local regulations

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

3,4,4'-TRICB UNLABELED (38444-90-5)

State or local regulations

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

2,2',6,6'-TETRACB UNLABELED (15968-05-5 (Unlabeled))

State or local regulations

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

2,3,3',4,4',5,5'-HEPTACB UNLABELED (39635-31-9)

State or local regulations

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

2-MONOCB UNLABELED (2051-60-7)

State or local regulations

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

4-MONOCB UNLABELED (2051-62-9)

State or local regulations

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

2,6-DICB UNLABELED (33146-45-1)

State or local regulations

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

4,4'-DICB UNLABELED (2050-68-2)

State or local regulations

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

2,2',4,6,6'-PENTACB UNLABELED (56558-16-8)

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

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ISOOCTANE UNLABELED (540-84-1)

State or local regulations

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

2,2',4,4',6,6'-HEXACB UNLABELED (33979-03-2)

State or local regulations

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

2,2',3,4',5,6,6'-HEPTACB UNLABELED (74487-85-7)

State or local regulations

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

2,2',3,3',4,4',5,5'-OCTACB UNLABELED (35694-08-7)

State or local regulations

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

2,2',3,3',4,4',5,5',6-NONACB UNLABELED (40186-72-9)

State or local regulations

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

2,2',3,3',4,5,5',6,6'-NONACB UNLABELED (52663-77-1)

State or local regulations

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

2,2',3,3',5,5',6,6'-OCTACB UNLABELED (2136-99-4)

State or local regulations

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

SECTION 16: Other information

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

COUNCIL of 16 December 2008 on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending

Regulation (EC) No 1907/2006.

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

corresponding unlabeled compound.

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

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4	Acute toxicity (inhalation:vapour) Category 4
(Inhalation:vapour)	
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Asp. Tox. 1	Aspiration hazard Category 1
Carc. 1A	Carcinogenicity Category 1A
Carc. 1B	Carcinogenicity (inhalation) Category 1B
Carc. 1B	Carcinogenicity Category 1B
Eye Dam. 1	Serious eye damage/eye irritation 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

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Repr. 1A	Reproductive toxicity Category 1A		
Skin Irrit. 2	Skin corrosion/irritation Category 2		
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2		
STOT SE 2	Specific target organ toxicity (single exposure) Category 2		
STOT SE 3	Specific target organ toxicity (single exposure) Category 3		
STOT SE 3	Specific target organ toxicity (single exposure) Category 3		
H225	Highly flammable liquid and vapor		
H226	Flammable liquid and vapor		
H302	Harmful if swallowed		
H304	May be fatal if swallowed and enters airways		
H312	Harmful in contact with skin		
H315	Causes skin irritation		
H318	Causes serious eye damage		
H319	Causes serious eye irritation		
H332	Harmful if inhaled		
H335	May cause respiratory irritation		
H336	May cause drowsiness or dizziness		
H350	May cause cancer		
H350i	May cause cancer by inhalation.		
H360	May damage fertility or the unborn child		
H371	May cause damage to organs		
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		
R11	Highly flammable		
R20	Harmful by inhalation		
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed		
R22	Harmful if swallowed		
R28	Very toxic if swallowed		
R33	Danger of cumulative effects		
R36/37/38	Irritating to eyes, respiratory system and skin		
R36/38	Irritating to eyes and skin		
R38	Irritating to skin		
R41	Risk of serious damage to eyes		
R45	May cause cancer		
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation		
R48/20/21/22	Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin		
	and if swallowed		
R49	May cause cancer by inhalation		
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment		
R60	May impair fertility		
R61	May cause harm to the unborn child		
R65	Harmful: may cause lung damage if swallowed		
R67	Vapors may cause drowsiness and dizziness		
F	Highly flammable		
N	Dangerous for the environment		
T+	Very toxic		
Xi	Irritant		
Xn	Harmful		

NFPA health hazard

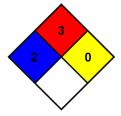
: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard

: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



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Hazard Rating

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

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