



COMPREHENSIVE NATIVE PCB MIXTURE UNLABELED IN ISOCTANE

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: 21/12/2015

Revision date: 04/03/2019

Supersedes: 21/12/2015

Version: 1.1

EC-5433

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

1.1. Product identifier

Product form : Mixtures
Product name : COMPREHENSIVE NATIVE PCB MIXTURE UNLABELED IN ISOCTANE
Product code : EC-5433

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

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) 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
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

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.

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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) :

H225 - Highly flammable liquid and vapor
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 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.
P273 - Avoid release to the environment.

GHS-US labeling

Hazard pictograms (GHS-US) :



Signal word (GHS-US) :

Danger

Hazard statements (GHS-US) :

H225 - Highly flammable liquid and vapor
H304 - May be fatal if swallowed and enters airways
H315 - Causes skin irritation
H336 - May cause drowsiness or dizziness
H400 - Very toxic to aquatic life
H410 - Very toxic to aquatic life with long lasting effects

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.
P273 - Avoid release to the environment.
P280 - Wear eye protection, face protection, protective gloves, protective clothing.
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 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

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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
ISOCTANE UNLABELED	(CAS-No.) 540-84-1 (EC-No.) 208-759-1 (EC Index-No.) 601-009-00-8 (REACH-no) 01-2119457965-22	99.98916	Xi; R38 N; R50/53 R67 F; R11 Xn; R65
2-MONOCB UNLABELED	(CAS-No.) 2051-60-7 (EC-No.) 218-125-6	0.00029	Xn; R48/20
4-MONOCB UNLABELED	(CAS-No.) 2051-62-9 (EC-No.) 218-127-7	0.00029	Xn; R48/20
2,2'-DICB UNLABELED	(CAS-No.) 13029-08-8	0.00029	Xn; R48/20/21/22 N; R50/53 R33
2,4'-DICB UNLABELED	(CAS-No.) 34883-43-7 (EC Index-No.) 602-039-00-4	0.00029	Xn; R48/20/21/22 N; R50/53 R33
2,5-DICB UNLABELED	(CAS-No.) 34883-39-1	0.00029	Xn; R48/20/21/22 N; R50/53 R33
2,6-DICB UNLABELED	(CAS-No.) 33146-45-1	0.00029	N; R50/53 Xn; R48/20
3,3'-DICB UNLABELED	(CAS-No.) 2050-67-1	0.00029	Xn; R48/20/21/22 N; R50/53 R33
3,4-DICB UNLABELED	(CAS-No.) 2974-92-7 (EC-No.) 215-648-1	0.00029	N; R50/53 R33 R48
4,4'-DICB UNLABELED	(CAS-No.) 2050-68-2 (EC-No.) 218-095-4	0.00029	N; R50/53
3,3',4,4',5,5'-HEXACB UNLABELED	(CAS-No.) 32774-16-6 (EC Index-No.) 602-039-00-4	0.00014	N; R50/53 Xn; R22
2,2',3,3',4,4',5-HEPTACB UNLABELED	(CAS-No.) 35065-30-6	0.00014	R33
2,2',3,3',4,5,6'-HEPTACB UNLABELED	(CAS-No.) 38411-25-5	0.00014	N; R50/53 R33 R48
2,2',3,3',5,5',6-HEPTACB UNLABELED	(CAS-No.) 52663-67-9	0.00014	N; R50/53 R33 R48
2,2',3,4,4',5,5'-HEPTACB UNLABELED	(CAS-No.) 35065-29-3	0.00014	R33
2,2',3,4',5,5',6-HEPTACB UNLABELED	(CAS-No.) 52663-68-0	0.00014	R33
2,2',3,4',5,6,6'-HEPTACB UNLABELED	(CAS-No.) 74487-85-7	0.00014	Xn; R20 Xn; R48/20 N; R50/53
2,3,3',4,4',5,5'-HEPTACB UNLABELED	(CAS-No.) 39635-31-9 (EC Index-No.) 602-039-00-4	0.00014	R33
2,2',3,3',4,4',5,5'-OCTACB UNLABELED	(CAS-No.) 35694-08-7	0.00014	Xn; R48/20 N; R50/53
2,2',3,3',4,4',5,6-OCTACB UNLABELED	(CAS-No.) 52663-78-2	0.00014	N; R50/53 Carc.Cat.1; R45

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
2,3,3',4,4',5,5',6-OCTACB UNLABELED	(CAS-No.) 74472-53-0	0.00014	R33
2,2',3,3',5,5',6,6'-OCTACB UNLABELED	(CAS-No.) 2136-99-4	0.00014	Xn; R48/20/21/22 N; R50/53 R33
2,2',3,3',4,5,6,6'-OCTACB UNLABELED	(CAS-No.) 52663-73-7	0.00014	R33
2,2',3,4,4',5,5',6-OCTACB UNLABELED	(CAS-No.) 52663-76-0	0.00014	Xn; R48/20/21/22 N; R50/53 R33
2,2',3,3',4,4',5,5',6-NONACB UNLABELED	(CAS-No.) 40186-72-9	0.00014	R33
2,2',3,3',4,5,5',6,6'-NONACB UNLABELED	(CAS-No.) 52663-77-1 (EC Index-No.) 602-039-00-4	0.00014	R33
DECACHLOROBIPHENYL UNLABELED	(CAS-No.) 2051-24-3 (EC-No.) 218-115-1 (EC Index-No.) 602-039-00-4	0.00014	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
2,2',5-TRICB UNLABELED	(CAS-No.) 37680-65-2 (EC Index-No.) 602-039-00-4	0.00014	R33
2,2',6-TRICB UNLABELED	(CAS-No.) 38444-73-4	0.00014	Xn; R48/20/21/22 Xi; R41 N; R50/53 R33
2,4,4'-TRICB UNLABELED	(CAS-No.) 7012-37-5 (EC-No.) 230-293-2	0.00014	Xi; R36/37/38 N; R50/53
2,4',5-TRICB UNLABELED	(CAS-No.) 16606-02-3 (EC Index-No.) 602-039-00-4	0.00014	R33
2',3,4-TRICB UNLABELED	(CAS-No.) 38444-86-9 (EC-No.) 215-648-1	0.00014	R33
3,3',4-TRICB UNLABELED	(CAS-No.) 37680-69-6	0.00014	Xn; R48/20/21/22 N; R50/53 R33
3,4,4'-TRICB UNLABELED	(CAS-No.) 38444-90-5	0.00014	Xn; R22 Xi; R41 N; R50/53
3,4,5-TRICB UNLABELED	(CAS-No.) 53555-66-1 (EC Index-No.) 602-039-00-4	0.00014	Xn; R48/20/21/22 N; R50/53 R33
2,2',3,5'-TETRACB UNLABELED	(CAS-No.) 41464-39-5	0.00014	R33
2,2',4,5'-TETRACB UNLABELED	(CAS-No.) 41464-40-8	0.00014	R33
2,2',5,5'-TETRACB UNLABELED	(CAS-No.) 35693-99-3 (EC Index-No.) 602-039-00-4	0.00014	Xn; R22 N; R50/53
2,2',6,6'-TETRACB UNLABELED	(CAS-No.) 15968-05-5	0.00014	T+; R28 N; R50/53
2,3,3',5-TETRACB UNLABELED	(CAS-No.) 70424-67-8	0.00014	Xn; R48/20/21/22 N; R50/53 R33
2,3',4,4'-TETRACB UNLABELED	(CAS-No.) 32598-10-0	0.00014	Xn; R48/20/21/22 N; R50/53 R33
2,3',4',5-TETRACB UNLABELED	(CAS-No.) 32598-11-1	0.00014	R33
2,4,4',5-TETRACB UNLABELED	(CAS-No.) 32690-93-0	0.00014	R33

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
3,3',4,5-TETRACB UNLABELED	(CAS-No.) 70362-49-1	0.00014	Xn; R48/20/21/22 N; R50/53 R33
3,3',4,5'-TETRACB UNLABELED	(CAS-No.) 41464-48-6 (EC Index-No.) 602-039-00-4	0.00014	Xn; R48/20/21/22 N; R50/53 R33
3,4,4',5-TETRACB UNLABELED	(CAS-No.) 70362-50-4 (EC Index-No.) 602-039-00-4	0.00014	N; R50/53 R33
2,2',3,4,5'-PENTACB UNLABELED	(CAS-No.) 38380-02-8	0.00014	R33
2,2',3,5',6-PENTACB UNLABELED	(CAS-No.) 38379-99-6	0.00014	R33
2,2',4,4',5-PENTACB UNLABELED	(CAS-No.) 38380-01-7	0.00014	R33
2,2',4,6,6'-PENTACB UNLABELED	(CAS-No.) 56558-16-8	0.00014	N; R50/53
2,2',4,5,5'-PENTACB UNLABELED	(CAS-No.) 37680-73-2	0.00014	R33
2,3,3',4,4'-PENTACB UNLABELED	(CAS-No.) 32598-14-4 (EC Index-No.) 602-039-00-4	0.00014	Xn; R22 R33 N; R50/53
2,3,3',4',6-PENTACB UNLABELED	(CAS-No.) 38380-03-9	0.00014	R33
2,3,3',5,5'-PENTACB UNLABELED	(CAS-No.) 39635-32-0	0.00014	Xn; R48/20 N; R50/53 R33
2,3,4,4',5-PENTACB UNLABELED	(CAS-No.) 74472-37-0 (EC Index-No.) 602-039-00-4	0.00014	Xn; R22 N; R50/53
2,3',4,4',5-PENTACB UNLABELED	(CAS-No.) 31508-00-6 (EC-No.) 215-648-1 (EC Index-No.) 602-039-00-4	0.00014	Xn; R22
2',3,4,4',5-PENTACB UNLABELED	(CAS-No.) 65510-44-3 (EC Index-No.) 602-039-00-4	0.00014	R33
3,3',4,4',5-PENTACB UNLABELED	(CAS-No.) 57465-28-8 (EC Index-No.) 602-039-00-4	0.00014	R33
2,2',3,4,4',5'-HEXACB UNLABELED	(CAS-No.) 35065-28-2	0.00014	N; R50/53 R33
3,3',4,4'-TETRACB UNLABELED	(CAS-No.) 32598-13-3 (EC Index-No.) 602-039-00-4	0.00014	R33 N; R50/53
2,2',3,4',5',6-HEXACB UNLABELED	(CAS-No.) 38380-04-0	0.00014	R33
2,3',4,4',5,5'-HEXACB UNLABELED	(CAS-No.) 52663-72-6 (EC Index-No.) 602-039-00-4	0.00014	R33
2,3,3',4',5,5'-HEXACB UNLABELED	(CAS-No.) 39635-34-2	0.00014	N; R50/53 R33 R48
2,3,3',4,4',5'-HEXACB UNLABELED	(CAS-No.) 69782-90-7 (EC Index-No.) 602-039-00-4	0.00014	R33
2,2',4,4',5,5'-HEXACB UNLABELED	(CAS-No.) 35065-27-1 (EC-No.) 215-648-1	0.00014	R33
2,2',4,4',6,6'-HEXACB UNLABELED	(CAS-No.) 33979-03-2	0.00014	Not classified
2,3,3',4,4',5-HEXACB UNLABELED	(CAS-No.) 38380-08-4 (EC Index-No.) 602-039-00-4	0.00014	R33
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
ISOCTANE UNLABELED	(CAS-No.) 540-84-1 (EC-No.) 208-759-1 (EC Index-No.) 601-009-00-8 (REACH-no) 01-2119457965-22	99.98916	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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2-MONOCB UNLABELED	(CAS-No.) 2051-60-7 (EC-No.) 218-125-6	0.00029	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	0.00029	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2'-DICB UNLABELED	(CAS-No.) 13029-08-8	0.00029	Carc. 1B, H350 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4'-DICB UNLABELED	(CAS-No.) 34883-43-7 (EC Index-No.) 602-039-00-4	0.00029	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,5-DICB UNLABELED	(CAS-No.) 34883-39-1	0.00029	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,6-DICB UNLABELED	(CAS-No.) 33146-45-1	0.00029	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,3'-DICB UNLABELED	(CAS-No.) 2050-67-1	0.00029	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,4-DICB UNLABELED	(CAS-No.) 2974-92-7 (EC-No.) 215-648-1	0.00029	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4,4'-DICB UNLABELED	(CAS-No.) 2050-68-2 (EC-No.) 218-095-4	0.00029	STOT RE 2, H373 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	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,3',4,4',5-HEPTACB UNLABELED	(CAS-No.) 35065-30-6	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
2,2',3,3',4,5,6'-HEPTACB UNLABELED	(CAS-No.) 38411-25-5	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,3',5,5',6-HEPTACB UNLABELED	(CAS-No.) 52663-67-9	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,4,4',5,5'-HEPTACB UNLABELED	(CAS-No.) 35065-29-3	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,4',5,5',6-HEPTACB UNLABELED	(CAS-No.) 52663-68-0	0.00014	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	0.00014	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 (EC Index-No.) 602-039-00-4	0.00014	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	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,3',4,4',5,6-OCTACB UNLABELED	(CAS-No.) 52663-78-2	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3,3',4,4',5,5',6-OCTACB UNLABELED	(CAS-No.) 74472-53-0	0.00014	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	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,3',4,5,6,6'-OCTACB UNLABELED	(CAS-No.) 52663-73-7	0.00014	Carc. 1A, H350 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,4,4',5,5',6-OCTACB UNLABELED	(CAS-No.) 52663-76-0	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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2,2',3,3',4,4',5,5',6-NONACB UNLABELED	(CAS-No.) 40186-72-9	0.00014	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	0.00014	Carc. 1B, H350 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	0.00014	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
2,2',5-TRICB UNLABELED	(CAS-No.) 37680-65-2 (EC Index-No.) 602-039-00-4	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
2,2',6-TRICB UNLABELED	(CAS-No.) 38444-73-4	0.00014	Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4,4'-TRICB UNLABELED	(CAS-No.) 7012-37-5 (EC-No.) 230-293-2	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4',5-TRICB UNLABELED	(CAS-No.) 16606-02-3 (EC Index-No.) 602-039-00-4	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2',3,4-TRICB UNLABELED	(CAS-No.) 38444-86-9 (EC-No.) 215-648-1	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,3',4-TRICB UNLABELED	(CAS-No.) 37680-69-6	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,4,4'-TRICB UNLABELED	(CAS-No.) 38444-90-5	0.00014	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
3,4,5-TRICB UNLABELED	(CAS-No.) 53555-66-1 (EC Index-No.) 602-039-00-4	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,5'-TETRACB UNLABELED	(CAS-No.) 41464-39-5	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',4,5'-TETRACB UNLABELED	(CAS-No.) 41464-40-8	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',5,5'-TETRACB UNLABELED	(CAS-No.) 35693-99-3 (EC Index-No.) 602-039-00-4	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',6,6'-TETRACB UNLABELED	(CAS-No.) 15968-05-5	0.00014	Carc. 1B, H350 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3,3',5-TETRACB UNLABELED	(CAS-No.) 70424-67-8	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3',4,4'-TETRACB UNLABELED	(CAS-No.) 32598-10-0	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3',4',5-TETRACB UNLABELED	(CAS-No.) 32598-11-1	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4,4',5-TETRACB UNLABELED	(CAS-No.) 32690-93-0	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,3',4,5-TETRACB UNLABELED	(CAS-No.) 70362-49-1	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,3',4,5'-TETRACB UNLABELED	(CAS-No.) 41464-48-6 (EC Index-No.) 602-039-00-4	0.00014	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]
3,4,4',5-TETRACB UNLABELED	(CAS-No.) 70362-50-4 (EC Index-No.) 602-039-00-4	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,4,5'-PENTACB UNLABELED	(CAS-No.) 38380-02-8	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,5',6-PENTACB UNLABELED	(CAS-No.) 38379-99-6	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',4,4',5-PENTACB UNLABELED	(CAS-No.) 38380-01-7	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',4,6,6'-PENTACB UNLABELED	(CAS-No.) 56558-16-8	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',4,5,5'-PENTACB UNLABELED	(CAS-No.) 37680-73-2	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3,3',4,4'-PENTACB UNLABELED	(CAS-No.) 32598-14-4 (EC Index-No.) 602-039-00-4	0.00014	Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3,3',4',6-PENTACB UNLABELED	(CAS-No.) 38380-03-9	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
2,3,3',5,5'-PENTACB UNLABELED	(CAS-No.) 39635-32-0	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3,4,4',5-PENTACB UNLABELED	(CAS-No.) 74472-37-0 (EC Index-No.) 602-039-00-4	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3',4,4',5-PENTACB UNLABELED	(CAS-No.) 31508-00-6 (EC-No.) 215-648-1 (EC Index-No.) 602-039-00-4	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2',3,4,4',5-PENTACB UNLABELED	(CAS-No.) 65510-44-3 (EC Index-No.) 602-039-00-4	0.00014	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	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,4,4',5'-HEXACB UNLABELED	(CAS-No.) 35065-28-2	0.00014	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	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,4',5',6-HEXACB UNLABELED	(CAS-No.) 38380-04-0	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
2,3',4,4',5,5'-HEXACB UNLABELED	(CAS-No.) 52663-72-6 (EC Index-No.) 602-039-00-4	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3,3',4',5,5'-HEXACB UNLABELED	(CAS-No.) 39635-34-2	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3,3',4,4',5'-HEXACB UNLABELED	(CAS-No.) 69782-90-7 (EC Index-No.) 602-039-00-4	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',4,4',5,5'-HEXACB UNLABELED	(CAS-No.) 35065-27-1 (EC-No.) 215-648-1	0.00014	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	0.00014	Carc. 1B, H350i STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3,3',4,4',5-HEXACB UNLABELED	(CAS-No.) 38380-08-4 (EC Index-No.) 602-039-00-4	0.00014	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	GHS-US classification
ISOOCTANE UNLABELED	(CAS-No.) 540-84-1	99.98916	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- and H- phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : If medical advice is needed, have product container or label at hand. Call a physician immediately. Evacuate danger area.
- First-aid measures after inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
- First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Wash with plenty of soap and water. Get medical advice/attention. Specific treatment (see Hazard pictograms (CLP) on this label).
- First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
- First-aid measures after ingestion : Immediately call a poison center or doctor/physician.

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

- Symptoms/effects after inhalation : May cause drowsiness or dizziness.
- Symptoms/effects after skin contact : Causes skin irritation.
- Symptoms/effects after eye contact : May cause eye irritation.
- Symptoms/effects 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 : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

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 flammable mixture with air. Highly flammable liquid and vapor.

5.3. Advice for firefighters

- Firefighting instructions : Wear a self contained breathing apparatus.
- 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 : Ventilate spillage area. Use personal protective equipment as required. Remove all sources of ignition. Ensure adequate air ventilation. Provide adequate ventilation to minimize dust and/or vapor concentrations. No open flames, no sparks, and no smoking. Avoid breathing gas, mist, vapors. Avoid contact with skin and eyes. Evacuate danger area. Special attention should be given to low areas/pits where flammable vapors can accumulate.

6.1.2. For emergency responders

- Protective equipment : Avoid breathing dust, mist or spray.

6.2. Environmental precautions

- Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

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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.

6.4. Reference to other sections

No additional information available

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 : No open flames. No smoking. Use only non-sparking tools. Use only outdoors or in a well-ventilated area. Avoid breathing dust, mist or spray.
Hygiene measures : Wash Both hands thoroughly after handling.

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 materials : Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

COMPREHENSIVE NATIVE PCB MIXTURE UNLABELED IN ISOCTANE		
Italy - 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
DECACHLOROBIPHENYL UNLABELED (2051-24-3)		
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	0.001 mg/m ³ USA. NIOSH Recommended Exposure Limits. Remarks : Potential Occupational Carcinogen.
ISOCTANE UNLABELED (540-84-1)		
Italy - 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
2,2',5,5'-TETRACB UNLABELED (35693-99-3)		
USA OSHA	OSHA PEL (TWA) (mg/m ³)	0.5 mg/m ³

8.2. Exposure controls

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



Hand protection : Wear suitable protective clothing and gloves.
Eye protection : Wear eye protection. Chemical goggles or face shield with 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.

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
Appearance : Liquid
Molecular mass : 114.23 g/mol
Color : Colorless
Odor : No data available
Odor threshold : No data available

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pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: -107 °C (-161 °F)
Freezing point	: No data available
Boiling point	: 98 - 99 °C (208 - 210 °F) at 1,013 hPa (760 mmHg)
Flash point	: -12 °C (10 °F) - closed cup
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapor
Vapor pressure	: 55 hPa (41 mmHg) at 21 °C (70 °F); 117 hPa (88 mmHg) at 37.8 °C (100.04 °F)
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)
Solubility	: Water: insoluble
Log Pow	: 4.6
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosion limits	: 1 - 6 % (V)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapors may form flammable mixture with air. Highly flammable liquid and vapor.

10.2. Chemical stability

See storage and expiration date on CoA.

10.3. Possibility of hazardous reactions

Vapors may form explosive mixture with air.

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 : Not classified

COMPREHENSIVE NATIVE PCB MIXTURE UNLABELED IN ISOCTANE	
LD50 oral rat	> 5000 mg/kg (OECD Test Guideline 401)
LD50 dermal rabbit	> 2000 mg/kg (OECD Test Guideline 402)
LC50 inhalation rat (mg/l)	> 33.52 mg/l/4h (OECD Test Guideline 403)
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
ISOCTANE UNLABELED (540-84-1)	
LD50 oral rat	> 5000 mg/kg (OECD Test Guideline 401)
LD50 dermal rabbit	> 2000 mg/kg (OECD Test Guideline 402)

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ISOCTANE UNLABELED (540-84-1)	
LC50 inhalation rat (mg/l)	> 33.52 mg/l/4h (OECD Test Guideline 403)
3,4,4',5-TETRACB UNLABELED (70362-50-4)	
Additional information	LD50 - Oral - guinea pig - 1 mg/kg
3,4,4'-TRICB UNLABELED (38444-90-5)	
ATE CLP (oral)	500.000 mg/kg body weight
Skin corrosion/irritation	: Skin. Rabbit. Result: Irritating to skin. (OECD 404 method)
Serious eye damage/irritation	: Eyes. Rabbit. Result: No eye irritation. (OECD 405 method)
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Rat - Unscheduled DNA synthesis
Carcinogenicity	: Not classified
Reproductive toxicity	: Not available
Specific target organ toxicity – single exposure	: May cause drowsiness or dizziness
Specific target organ toxicity – repeated exposure	: Health hazard - Aspiration hazard No data available
Aspiration hazard	: Aspiration hazard
Potential Adverse human health effects and symptoms	: 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. Affects the liver.
Symptoms/effects after inhalation	: May cause drowsiness or dizziness.
Symptoms/effects after skin contact	: Causes skin irritation.
Symptoms/effects after eye contact	: May cause eye irritation.
Symptoms/effects after ingestion	: 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.

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
2,3',4,4',5,5'-HEXACB UNLABELED (52663-72-6)	
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
2,3,3',4,4',5-HEXACB UNLABELED (38380-08-4)	
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
2,2',3,3',4,4',5-HEPTACB UNLABELED (35065-30-6)	
LC50 fish 1	0.034 mg/l Pimephales promelas (fathead minnow) - 96 h
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 Daphnia magna (Water flea) - 48 h
2,4,4'-TRICB UNLABELED (7012-37-5)	
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
4-MONOCB UNLABELED (2051-62-9)	
LC50 fish 1	0.72 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
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

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2,2',5-TRICB UNLABELED (37680-65-2)	
LC50 fish 1	0.034 mg/l Pimephales promelas (fathead minnow) - 96 h
3,4,4',5-TETRACB UNLABELED (70362-50-4)	
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
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)	
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
2,2',5,5'-TETRACB UNLABELED (35693-99-3)	
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
NOEC (chronic)	0.1 mg/l Oncorhynchus mykiss (rainbow trout) - 7 d
2',3,4,4',5-PENTACB UNLABELED (65510-44-3)	
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
2,3,3',4,4'-PENTACB UNLABELED (32598-14-4)	
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
2,4',5-TRICB UNLABELED (16606-02-3)	
ErC50 (algae)	0.06 mg/l Growth inhibition Pseudokirchneriella subcapitata - 48 h
2',3,4-TRICB UNLABELED (38444-86-9)	
LC50 fish 1	0.034 mg/l Pimephales promelas (fathead minnow) - 96 h
2,2',4,5'-TETRACB UNLABELED (41464-40-8)	
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

12.2. Persistence and degradability

COMPREHENSIVE NATIVE PCB MIXTURE UNLABELED IN ISOCTANE	
Persistence and degradability	May cause long-term adverse effects in the environment.
2,2',3,4,4',5,5'-HEPTACB UNLABELED (35065-29-3)	
Persistence and degradability	May cause long-term adverse effects in the environment.
DECACHLOROBIPHENYL UNLABELED (2051-24-3)	
Persistence and degradability	May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

COMPREHENSIVE NATIVE PCB MIXTURE UNLABELED IN ISOCTANE	
Log Pow	4.6
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.
ISOCTANE UNLABELED (540-84-1)	
Log Pow	4.6
4-MONOCB UNLABELED (2051-62-9)	
BCF fish 1	>= 0.5 mg/l Oryzias latipes - 20 d
Bioconcentration factor (BCF REACH)	>= 54
2,2',5-TRICB UNLABELED (37680-65-2)	
Log Pow	5.56
2,2'-DICB UNLABELED (13029-08-8)	
Log Pow	4.1

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2,4'-DICB UNLABELED (34883-43-7)	
Log Pow	5.242
2,3',4,4',5-PENTACB UNLABELED (31508-00-6)	
Log Pow	7.12
2,4',5-TRICB UNLABELED (16606-02-3)	
Log Pow	5.1

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects : Very toxic to aquatic life with long lasting effects. Avoid release to the environment. Disposal must be done according to official regulations.

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.

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 / IMDG / IATA / ADN

14.1. UN number

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

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



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

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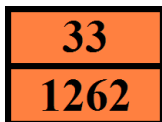
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according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

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 (49 CFR 173.27) : 5 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 60 L

Civil Aeronautics Law : Flammable liquids

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

15.1. US Federal regulations

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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 Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.

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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 Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.

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15.2. International regulations

CANADA

COMPREHENSIVE NATIVE PCB MIXTURE UNLABELED IN ISOCTANE

Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

COMPREHENSIVE NATIVE PCB MIXTURE UNLABELED IN ISOCTANE

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 - Proposition 65 - Reproductive Toxicity - Male	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

ISOCTANE UNLABELED (540-84-1)

U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	

ISOCTANE 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

SECTION 16: Other information

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

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

Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) 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
Carc. 1A	Carcinogenicity Category 1A
Carc. 1B	Carcinogenicity Category 1B
Carc. 1B	Carcinogenicity (inhalation) Category 1B
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Liq. 2	Flammable liquids Category 2
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
H225	Highly flammable liquid and vapor
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin

COMPREHENSIVE NATIVE PCB MIXTURE UNLABELED IN ISOCTANE

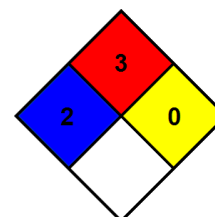
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H315	Causes skin irritation
H318	Causes serious eye damage
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H350	May cause cancer
H350i	May cause cancer by inhalation.
H360	May damage fertility or the unborn child
H371	May cause damage 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
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
R38	Irritating to skin
R41	Risk of serious damage to eyes
R45	May cause cancer
R48	Danger of serious damage to health by prolonged exposure
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.



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