

Safety Data Sheet

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

Date of issue: 12/11/2014 Revision date: : Version: 1.0

EC-5179/50

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

I.1. Product identifier

Product form : Mixture

Product name. : UNLABELED PCB MIXTURE IN ISOOCTANE PCBS-28/52/101/138/153/180/209 (1:50

DILUTION)

Product code : EC-5179

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.

Industrial.

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: 1-202-483-7616 (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 H-phrases: see section 16

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

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

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

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Adverse physicochemical, human health and environmental effects

Liver, Kidney.

2.2. Label elements

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

Hazard pictograms (CLP)









Signal word (CLP) : Danger

Hazard statements (CLP) : H225 - Highly flammable liquid and vapour

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, vapours 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 labelling

Hazard pictograms (GHS-US)









Signal word (GHS-US) : Danger

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

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, vapours P264 - Wash Both hands thoroughly after handling P271 - Use only outdoors or in a well-ventilated area

P271 - Ose only dutations of in a well-ventilated at P273 - Avoid release to the environment P280 - Wear protective clothing, protective gloves

P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician

P302+P352 - IF ON SKIN: Wash with plenty of soap and water

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

clothing. Rinse skin with water/shower

P304+P340 - IF INHALED: remove victim to fresh air and keep at rest in a position comfortable

for breathing
P312 - Call a POISON CENTER/doctor/physician if you feel unwell
P321 - Specific treatment (see Hazard pictograms (CLP) on this label)

P321 - Specific treatment (see Hazard pictograms (CLP) on this label)
P331 - If swallowed, 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 for extinction

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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

Product identifier

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

Classification according to

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Name

3.2. Mixture

Hame	1 Toddot Identifier	70	Directive 67/548/EEC
ISOOCTANE UNLABELED	(CAS No)540-84-1 (EC no)208-759-1 (EC index no)601-009-00-8	99.9998985	F; R11 Xi; R38 N; R50/53 R67
2,2',3,4,4',5'-HEXACB UNLABELED	(CAS No)35065-28-2 (Unlabeled) (EC index no)602-039-00-4	0.0000145	N; R50/53 R33
2,2',4,4',5,5'-HEXACB UNLABELED	(CAS No)35065-27-1 (EC index no)602-039-00-4	0.0000145	R33
2,2',4,5,5'-PENTACB UNLABELED	(CAS No)37680-73-2 (EC index no)602-039-00-4	0.0000145	R33
2,4,4'-TRICB UNLABELED	(CAS No)7012-37-5 (EC no)230-293-2 (EC index no)602-039-00-4	0.0000145	Xi; R36/37/38 N; R50/53
2,2',3,4,4',5,5'-HEPTACB UNLABELED	(CAS No)35065-29-3	0.0000145	R33
2,2',5,5'-TETRACB UNLABELED	(CAS No)35693-99-3 (EC index no)602-039-00-4	0.0000145	Xn; R22 N; R50/53
DECACHLOROBIPHENYL UNLABELED	(CAS No)2051-24-3 (EC index no)602-039-00-4	0.0000145	N; R50/53
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	99.9998985	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,4,4',5'-HEXACB UNLABELED	(CAS No)35065-28-2 (Unlabeled) (EC index no)602-039-00-4	0.0000145	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 index no)602-039-00-4	0.0000145	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',4,5,5'-PENTACB UNLABELED	(CAS No)37680-73-2 (EC index no)602-039-00-4	0.0000145	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 (EC index no)602-039-00-4	0.0000145	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	0.0000145	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	0.0000145	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
DECACHLOROBIPHENYL UNLABELED	(CAS No)2051-24-3 (EC index no)602-039-00-4	0.0000145	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Name	Product identifier	%	GHS-US classification

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	<u> </u>		
ISOOCTANE UNLABELED	(CAS No)540-84-1	99.9998985	Flam. Liq. 1, H224 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',3,4,4',5'-HEXACB UNLABELED	(CAS No)35065-28-2 (Unlabeled)	0.0000145	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	0.0000145	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',4,5,5'-PENTACB UNLABELED	(CAS No)37680-73-2	0.0000145	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4,4'-TRICB UNLABELED	(CAS No)7012-37-5	0.0000145	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	0.0000145	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,2',5,5'-TETRACB UNLABELED	(CAS No)35693-99-3	0.0000145	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
DECACHLOROBIPHENYL UNLABELED	(CAS No)2051-24-3	0.0000145	Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

SECTION 4: First aid measures

Description of first aid measures

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

advice (show the label where possible).

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

CENTER/doctor/physician if you feel unwell.

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.

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

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/injuries after inhalation : May cause drowsiness or dizziness.

Symptoms/injuries after skin contact : Causes skin irritation.

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

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.

Unsuitable extinguishing media : Do not use a heavy water stream.

Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

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

Reactivity : Vapour is explosive with air above.

Advice for firefighters 5.3.

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any

chemical fire. Avoid (reject) fire-fighting water to enter environment.

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

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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

smoking

6.1.1. For non-emergency personnel

Emergency procedures : 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 : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-

brushing and place in container for disposal according to local regulations.

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

spillage. Store aways 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 vapours are flammable.

Precautions for safe handling

: Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Provide good ventilation in process area to prevent formation of vapour. No

naked lights. No smoking. Use only non-sparking tools. Avoid breathing dust, mist or spray. Use only outdoors or in a well-ventilated area.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Wash hands before

breaks and at the end of workday.

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

2,2',5,5'-TETRACB UNLABELED (35693-99-3)

USA OSHA OSHA PEL (TWA) (mg/m3) 0.5000000000 mg/m³

8.2. Exposure controls

Personal protective equipment : Gloves. Safety glasses. Respiratory protection of the dependent type. Protective clothing.



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 : When using, do not eat, drink or smoke.

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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

Colour : Colourless.

Odour : characteristic.
Odour threshold : No data available
pH : No data available
Relative evaporation rate (butylacetate=1) : No data available
Melting point : -107 °C (-161 °F)
Freezing point : No data available
Boiling point : 99 °C (210 °F)

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

Self ignition temperature : $396 \, ^{\circ}\text{C} \, (745 \, ^{\circ}\text{F})$ Decomposition temperature : No data available

Flammability (solid, gas) : Highly flammable liquid and vapour Vapour pressure : 55 hPa (41 mmHg) at 21 °C (70 °F)

Relative vapour density at 20 °C : 3.94 - (Air = 1.0) Relative density : No data available Solubility : Water: 0 % Log Pow No data available Log Kow : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available Explosive properties : No data available Oxidising properties : No data available **Explosive limits** : 1 - 6 % (V)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapour is explosive with air above.

10.2. Chemical stability

See storage and expiration date on CoA.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

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

10.5. Incompatible materials

strong acids. Strong bases.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Not classified

Based on available data, the classification criteria are not met

Respiratory or skin sensitisation : Not classified

Based on available data, the classification criteria are not met

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: Causes skin irritation.

Germ cell mutagenicity : Not classified

Based on available data, the classification criteria are not met

Carcinogenicity : Not classified

Based on available data, the classification criteria are not met

Reproductive toxicity : Not classified

Based on available data, the classification criteria are not met

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

Specific target organ toxicity (repeated : Not classified

exposure)

Based on available data, the classification criteria are not met

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

Potential Adverse human health effects and

Symptoms/injuries after skin contact

symptoms

: Based on available data, the classification criteria are not met.

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

Symptoms/injuries 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.

2,2',5,5'-TETRACB UNLABELED (35693-99-3)	
LC50 fishes 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

2,4,4'-TRICB UNLABELED (7012-37-5)	
LC50 fishes 1	> 0.16 mg/l Pimephales promelas (fathead minnow) - 96h
FC50 Daphnia 1	> 0.16 mg/l Daphnia magna (Water flea) - 48h

2,2',4,4',5,5'-HEXACB UNLABELED (35065-27	-1)
LC50 fishes 1	- 96 h, Pimephales promelas (fathead minnow) -
ECEO Dophnio 1	49 h Danhaia magaa (Water floa)

12.2. Persistence and degradability

UNLABELED PCB MIXTURE IN ISOOCTANE PCBS-28/52/101/138/153/180/209 (1:50 DILUTION)	
Persistence and degradability	May cause long-term adverse effects in the environment.

DECACHLOROBIPHENYL UNLABELED (2051-24-3)

Persistence and degradability Not available.

2,2',5,5'-TETRACB UNLABELED (35693-99-3)

Persistence and degradability Not available.

2,2',3,4,4',5,5'-HEPTACB UNLABELED (35065-29-3)

Persistence and degradability Not available.

2,4,4'-TRICB UNLABELED (7012-37-5)

Persistence and degradability Not available.

2,2',4,5,5'-PENTACB UNLABELED (37680-73-2)

Persistence and degradability Not available.

2,2',4,4',5,5'-HEXACB UNLABELED (35065-27-1)

Persistence and degradability Not available.

2,2',3,4,4',5'-HEXACB UNLABELED (35065-28-2 (Unlabeled))

Persistence and degradability Not available.

ISOOCTANE UNLABELED (540-84-1)

Persistence and degradability Not available.

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Ecology - waste materials

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according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations		
12.3. Bioaccumulative potential		
UNLABELED PCB MIXTURE IN ISOOCTANE P	CBS-28/52/101/138/153/180/209 (1:50 DILUTION)	
Bioaccumulative potential	Not established.	
DECACHLOROBIPHENYL UNLABELED (2051-	24-3)	
Bioaccumulative potential	Not available.	
2,2',5,5'-TETRACB UNLABELED (35693-99-3)		
Bioaccumulative potential	Not available.	
2,2',3,4,4',5,5'-HEPTACB UNLABELED (35065-	8.27	
Bioaccumulative potential	Not available.	
	THE GRAND OF	
2,4,4'-TRICB UNLABELED (7012-37-5) Bioaccumulative potential	Not available.	
•		
2,2',4,5,5'-PENTACB UNLABELED (37680-73-2		
Bioaccumulative potential	Not available.	
2,2',4,4',5,5'-HEXACB UNLABELED (35065-27-		
Log Pow	7.75	
2,2',3,4,4',5'-HEXACB UNLABELED (35065-28-	2 (Unlabeled))	
Bioaccumulative potential	Not available.	
ISOOCTANE UNLABELED (540-84-1)		
Bioaccumulative potential	Not available.	
12.4. Mobility in soil		
DECACHLOROBIPHENYL UNLABELED (2051-	,	
Ecology - soil	Not available.	
2,2',5,5'-TETRACB UNLABELED (35693-99-3)		
Ecology - soil	Not available.	
2,2',3,4,4',5,5'-HEPTACB UNLABELED (35065-	29-3)	
Ecology - soil	Not available.	
2,4,4'-TRICB UNLABELED (7012-37-5)		
Ecology - soil	Not available.	
2,2',4,5,5'-PENTACB UNLABELED (37680-73-2		
Ecology - soil	Not available.	
2,2',4,4',5,5'-HEXACB UNLABELED (35065-27-	1)	
Ecology - soil	Not available.	
2,2',3,4,4',5'-HEXACB UNLABELED (35065-28-	2 / [n n	
Ecology - soil	Not available.	
ISOOCTANE UNLABELED (540-84-1) Ecology - soil	Not available.	
- O	inut 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.	
SECTION 13: Disposal considerations		
13.1. Waste treatment methods		
	Waste materials should be disposed of under conditions which meet Federal, State, and Local	
- , ,	environmental control regulations.	
Waste disposal recommendations :	Dispose in a safe manner in accordance with local/national regulations. Dispose of	
Additional information :	contents/container to Comply with applicable regulations.	
Feelogy - waste materials	Handle empty containers with care because residual vapours are flammable.	

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: Avoid release to the environment. Hazardous waste due to toxicity.

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SECTION 14: Transport information

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

14.1. UN number

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

14.2. UN proper shipping name

DOT Proper Shipping Name : Octanes

Department of Transportation (DOT) Hazard

Classes

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

Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : 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.

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 liquids

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

Danger labels (ADR) : 3 - Flammable liquids



Orange plates :

33 1262

Tunnel restriction code : D/E
Limited quantities (ADR) 1L
EAC code : 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

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Air transport

DOT Quantity Limitations Passenger aircraft/rail : 5 L (49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

Civil Aeronautics Law : Flammable liquids(Hazardous materials notice Appended Table 1 Article 194 of the

Enforcement Regulations)

Environmental hazards

Dangerous for the environment



Other information : No supplementary information available.

14.5. Special precautions for user

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

UNLABELED PCB MIXTURE IN ISOOCTANE PCBS-28/52/101/138/153/180/209 (1:50 DILUTION)		
SARA Section 311/312 Hazard Classes	Fire hazard	
	Immediate (acute) health hazard Delayed (chronic) health hazard	

2,2',3,4,4',5,5'-HEPTACB UNLABELED (35065-29-3)

SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard
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2.4.4'-TRICB UNLABELED (7012-37-5)

SARA Section 311/312 Hazard Classes Delayed (chronic) health hazard

2,2',4,4',5,5'-HEXACB UNLABELED (35065-27-1)

SARA Section 311/312 Hazard Classes Delayed (chronic) health hazard

ISOOCTANE UNLABELED (540-84-1)

	SARA Section 311/312 Hazard Classes	Fire hazard
		Immediate (acute) health hazard
		Delayed (chronic) health hazard

15.2. International regulations

UNLABELED PCB MIXTURE IN ISOOCTANE PCBS-28/52/101/138/153/180/209 (1:50 DILUTION)

Listed on the Canadian DSL (Domestic Sustances List) inventory.

15.2.1. National regulations

No additional information available

15.3. US State regulations

UNLABELED PCB MIXTURE IN ISOOCTANE PCBS-28/52/101/138/153/180/209 (1:50 DILUTION)()

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

This product does not contain any chemicals known to State of California to cause cancer,

birth defects, or any other reproductive harm.

DECACHLOROBIPHENYL UNLABELED (2051-24-3)

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Safety Data Sheet

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

DECACHLOROBIPHENYL UNLABELED (2051-24-3)

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - New Jersey - Right to Know Hazardous Substance List

WARNING! This product contains a chemical known by the state of California to cause cancer, birth defects or other reproductive harm.

2,2',5,5'-TETRACB UNLABELED (35693-99-3)

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - New Jersey - Right to Know Hazardous Substance List

WARNING! This product contains a chemical known by the state of California to cause birth defects or other reproductive harm.

2,2',3,4,4',5,5'-HEPTACB UNLABELED (35065-29-3)

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - New Jersey - Right to Know Hazardous Substance List

WARNING! This product contains a chemical known by the state of California to cause cancer, birth defects or other reproductive harm.

2,4,4'-TRICB UNLABELED (7012-37-5)

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - New Jersey - Right to Know Hazardous Substance List

WARNING! This product contains a chemical known by the state of California to cause cancer, birth defects or other reproductive harm.

2,2',4,5,5'-PENTACB UNLABELED (37680-73-2)

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - New Jersey - Right to Know Hazardous Substance List

WARNING! This product contains a chemical known by the state of California to cause cancer, birth defects or other reproductive harm.

2,2',4,4',5,5'-HEXACB UNLABELED (35065-27-1)

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - New Jersey - Right to Know Hazardous Substance List

WARNING! This product contains a chemical known by the state of California to cause cancer, birth defects or other reproductive harm.

2,2',3,4,4',5'-HEXACB UNLABELED (35065-28-2 (Unlabeled))

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - New Jersey - Right to Know Hazardous Substance List

WARNING! This product contains a chemical known by the state of California to cause cancer, birth defects or other reproductive harm.

ISOOCTANE UNLABELED (540-84-1)

U.S. - Massachusetts - Right To Know List

U.S. - Pennsylvania - RTK (Right to Know) List

U.S. - New Jersey - Right to Know Hazardous Substance List

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

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, labelling 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.

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Safety Data Sheet

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

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

Aquatic Acute 1	Hazardous to the aquatic environment — AcuteHazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment — Chronic Hazard, Category 1
Asp. Tox. 1	Aspiration hazard, Category 1
Flam. Liq. 2	Flammable liquids, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H336	May cause drowsiness or dizziness
H373	May cause damage to organs through prolonged or repeated
	exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R11	Highly flammable
R22	Harmful if swallowed
R33	Danger of cumulative effects
R36/37/38	Irritating to eyes, respiratory system and skin
R38	Irritating to skin
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
R67	Vapours may cause drowsiness and dizziness
F	Highly flammable
N	Dangerous for the environment
Xi	Irritant
Xn	Harmful

NFPA health hazard : 2 - Intense or continued exposure could cause temporary

incapacitation or possible residual injury unless prompt

medical attention is given.

NFPA fire hazard : 3 - Liquids and solids that can be ignited under almost all

ambient conditions.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions,

and are not reactive with water.



HMIS III 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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