

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: 28/04/2014 Revision date: 13/11/2019 Supersedes: 28/04/2014 Version: 2.0 EC-5000

SECT	ON 1: Identification of the sul	ostance/mixture and of the company/undertaking	
1.1.	Product identifier		
Product	form	: Mixtures	
Product	name	: WHO COPLANAR & MONO-ORTHO PCB + PCB-170 & PCB-180 UNLABELED 2 UG/ML IN ISOOCTANE	
Product	code	: EC-5000	
1.2.	Relevant identified uses of the sub	stance or mixture and uses advised against	
1.2.1.	Relevant identified uses		
Main us	e category	: Professional use	
Industria	al/Professional use spec	: For professional use only	
1.2.2.	Uses advised against		
No addit	tional information available		
1.3.	Details of the supplier of the safety	data sheet	
50 Front Andover USA	Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810		
<u>cilsales</u>	<pre>@isotope.com www.isotope.com</pre>		
_	Emergency telephone number		
•	ncy numbers:		
	ec: 1-800-424-9300 (24 hours) onal: 1-703-741-5970 (24 hours)		
SECT	ON 2: Hazards identification		
2.1.	Classification of the substance or	nixture	
Classification cecimits to Regulation (EC) No. 1272/2008 [CLP]Flam. Liq. 1H224Skin Irrit. 2H315STOT SE 3H336Asp. Tox. 1H304Aquatic Acute 1H400Aquatic Chronic 1H410			
Full text	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 Skin Irrit. 2 H225 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.



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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	99.9997	Xi; R38 N; R50/53 R67 F; R11 Xn; R65
3,3',4,4',5,5'-HEXACB UNLABELED	(CAS-No.) 32774-16-6 (EC Index-No.) 602-039-00-4	0.000021	N; R50/53 Xn; R22
3,3',4,4',5-PENTACB UNLABELED	(CAS-No.) 57465-28-8 (EC Index-No.) 602-039-00-4	0.000021	R33
3,3',4,4'-TETRACB UNLABELED	(CAS-No.) 32598-13-3 (EC Index-No.) 602-039-00-4	0.000021	R33 N; R50/53
3,4,4',5-TETRACB UNLABELED	(CAS-No.) 70362-50-4 (EC Index-No.) 602-039-00-4	0.000021	N; R50/53 R33
2,2',3,4,4',5,5'-HEPTACB UNLABELED	(CAS-No.) 35065-29-3	0.000021	R33
2,3,3',4,4',5,5'-HEPTACB UNLABELED	(CAS-No.) 39635-31-9 (EC Index-No.) 602-039-00-4	0.000021	R33
2,3,3',4,4',5-HEXACB UNLABELED	(CAS-No.) 38380-08-4 (EC Index-No.) 602-039-00-4	0.000021	R33
2',3,4,4',5-PENTACB UNLABELED	(CAS-No.) 65510-44-3 (EC Index-No.) 602-039-00-4	0.000021	R33
2,3',4,4',5,5'-HEXACB UNLABELED	(CAS-No.) 52663-72-6 (EC Index-No.) 602-039-00-4	0.000021	R33
2,3,3',4,4',5'-HEXACB UNLABELED	(CAS-No.) 69782-90-7 (EC Index-No.) 602-039-00-4	0.000021	R33
2,2',3,3',4,4',5-HEPTACB UNLABELED	(CAS-No.) 35065-30-6	0.000021	R33
2,3,3',4,4'-PENTACB UNLABELED	(CAS-No.) 32598-14-4 (EC Index-No.) 602-039-00-4	0.000021	Xn; R22 R33 N; R50/53
2,3,4,4',5-PENTACB UNLABELED	(CAS-No.) 74472-37-0 (EC Index-No.) 602-039-00-4	0.000021	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	0.000021	Xn; R22
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	99.9997	Flam. Liq. 2, H225 Skin Irrit. 2, H315 STOT SE 3, H336 Asp. Tox. 1, H304 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	0.000021	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	0.000021	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]
3,3',4,4'-TETRACB UNLABELED	(CAS-No.) 32598-13-3 (EC Index-No.) 602-039-00-4	0.000021	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,4,4',5-TETRACB UNLABELED	(CAS-No.) 70362-50-4 (EC Index-No.) 602-039-00-4	0.000021	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	0.000021	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	0.000021	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	0.000021	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	0.000021	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,3',4,4',5,5'-HEXACB UNLABELED	(CAS-No.) 52663-72-6 (EC Index-No.) 602-039-00-4	0.000021	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	0.000021	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	0.000021	STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
2,3,3',4,4'-PENTACB UNLABELED	(CAS-No.) 32598-14-4 (EC Index-No.) 602-039-00-4	0.000021	Eye Dam. 1, H318 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	0.000021	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	0.000021	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	99.9997	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 person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Call a doctor.
First-aid measures after skin contact	:	Rinse skin with water/shower. Take immediately victim to hospital. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
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		Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Call a physician immediately.
4.2. Most important symptoms and effe	ects	, both acute and delayed
Symptoms/effects	:	May cause drowsiness or dizziness.
Symptoms/effects after inhalation :		May be fatal if swallowed and enters airways. May cause drowsiness or dizziness.
Symptoms/effects after skin contact :		May be harmful in contact with skin. Causes skin irritation.
Symptoms/effects after eye contact :		May cause eye irritation.
Symptoms/effects after ingestion :		May be fatal if swallowed and enters airways. May result in aspiration into the lungs, causing chemical pneumonia. Risk of lung edema.

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4.3. Indication of any immediate medical attention and special treatment needed			
Treat symptomatically.			
SECTION 5: Firefighting	) measures		
5.1. Extinguishing media	1		
Suitable extinguishing media	: Flood fire area with water from a distance. Water spray. Dry powder. Foam. Carbon dioxid	le.	
5.2. Special hazards aris	ing from the substance or mixture		
Fire hazard	: Highly flammable liquid and vapor.		
Explosion hazard	: Flash back possible over important distance.		
5.3. Advice for firefighter	rs		
Firefighting instructions	: Wear a self contained breathing apparatus.		
Protection during firefighting	<ul> <li>Do not enter fire area without proper protective equipment, including respiratory protectior not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</li> </ul>	ı. Do	
Other information	: Use water spray to cool exposed surfaces.		
SECTION 6: Accidental	release measures		
	s, protective equipment and emergency procedures		
6.1.1. For non-emergency			
Emergency procedures	<ul> <li>Ventilate spillage area. Use personal protective equipment as required. Remove all source ignition. Ensure adequate air ventilation. Provide adequate ventilation to minimize dust an vapor concentrations. No open flames, no sparks, and no smoking. Avoid breathing gas, r vapors. Avoid contact with skin and eyes. Evacuate danger area. Special attention should given to low areas/pits where flammable vapors can accumulate.</li> </ul>	d/or nist,	
6.1.2. For emergency resp	onders		
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".	ſ	
6.2. Environmental preca	autions		
Stop leak, if possible without risl	k. Prevent entry to sewers and public waters. Avoid release to the environment.		
6.3. Methods and materia	al for containment and cleaning up		
For containment	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	<ul> <li>Take up liquid spill into absorbent material. Notify authorities if product enters sewers or p waters. This material and its container must be disposed of in a safe way, and as per loca legislation.</li> </ul>		
Other information	: Dispose of materials or solid residues at an authorized site.		
6.4. Reference to other s	ections		
For further information refer to s	section 13.		
<b>SECTION 7: Handling ar</b>	nd storage		
7.1. Precautions for safe			
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.	e	
	storage, including any incompatibilities		
Storage conditions	: Store at room temperature away from light and moisture.		
7.3. Specific end use(s)			
No additional information available			
No additional information availal	ble		
	ble ontrols/personal protection		
SECTION 8: Exposure c 8.1. Control parameters			
SECTION 8: Exposure c 8.1. Control parameters WHO COPLANAR & MONO-C Italy - Portugal - USA ACGIH	ORTHO PCB + PCB-170 & PCB-180 UNLABELED 2 UG/ML IN ISOOCTANE           ACGIH TWA (ppm)         300.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)	1	
SECTION 8: Exposure c 8.1. Control parameters WHO COPLANAR & MONO-0	ORTHO PCB + PCB-170 & PCB-180 UNLABELED 2 UG/ML IN ISOOCTANE ACGIH TWA (ppm) 300.0000000 ppm Basis: USA. ACGIH Threshold	I	
SECTION 8: Exposure c 8.1. Control parameters WHO COPLANAR & MONO-C Italy - Portugal - USA ACGIH Italy - Portugal - USA ACGIH ISOOCTANE UNLABELED (5	ORTHO PCB + PCB-170 & PCB-180 UNLABELED 2 UG/ML IN ISOOCTANE         ACGIH TWA (ppm)       300.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)         Remark (ACGIH)       Upper Respiratory Tract irritation         idu-84-1)       Image: Construction	1	
SECTION 8: Exposure c 8.1. Control parameters WHO COPLANAR & MONO-C Italy - Portugal - USA ACGIH Italy - Portugal - USA ACGIH	ORTHO PCB + PCB-170 & PCB-180 UNLABELED 2 UG/ML IN ISOOCTANE         ACGIH TWA (ppm)       300.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)         Remark (ACGIH)       Upper Respiratory Tract irritation		

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8.2.	Exposure controls	
Appropr	iate engineering controls	: Wash hands and oth

- Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Ensure good ventilation of the work station.
- Personal protective equipment
- : Gloves. Protective clothing. Protective goggles. Self-contained breathing apparatus.



Materials for protective clothing
Hand protection
Eye protection
Skin and body protection

- Respiratory protection Environmental exposure controls
- : Wear suitable protective clothing and gloves. : Wear eye protection. Chemical goggles or face shield with safety glasses. Safety glasses.

: Wear suitable protective clothing and gloves.

- Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator. ÷
- : Avoid release to the environment.

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		
рН	: 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)	: Not applicable		
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

SECTIO	SECTION 10: Stability and reactivity			
10.1.	Reactivity			
No additi	onal information available			
10.2.	Chemical stability			
See stora	age and expiration date on CoA.			

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10.3. Possibility of hazardous reactions				
No additional information available				
No additional information available	10.4. Conditions to avoid			
10.5. Incompatible materials				
No additional information available				
10.6. Hazardous decomposition products				
No additional information available				
<b>SECTION 11: Toxicological informati</b>	on			
11.1. Information on toxicological effects				
Acute toxicity	: Not classified			
WHO COPLANAR & MONO-ORTHO PCB + PO	CB-170 & PCB-180 UNLABELED 2 UG/ML IN ISOOCTANE			
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)			
3,4,4',5-TETRACB UNLABELED (70362-50-4)				
Additional information	LD50 - Oral - guinea pig - 1 mg/kg			
ISOOCTANE UNLABELED (540-84-1)				
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)			
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	: Health hazard - Aspiration hazard			
exposure	No data available			
Aspiration hazard	: Aspiration hazard			
Potential Adverse human health effects and	: This information is based on our current knowledge and is intended to describe the product for			
symptoms	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 be fatal if swallowed and enters airways. May cause drowsiness or dizziness.			
Symptoms/effects after skin contact	: May be harmful in contact with skin. Causes skin irritation.			
Symptoms/effects after eye contact	: May cause eye irritation.			
Symptoms/effects after ingestion	: May be fatal if swallowed and enters airways. May result in aspiration into the lungs, causing chemical pneumonia. Risk of lung edema.			

### **SECTION 12: Ecological information**

12.1. Toxicity 3,3',4,4'-TETRACB UNLABELED (32598-13-3) LC50 fish 1 > 0.002 mg/l Pimephales promelas (fathead minnow) - 96 h > 0.002 mg/l Daphnia magna (Water flea) - 48 h EC50 Daphnia 1 NOEC (chronic) 0.1 mg/l Oncorhynchus mykiss (rainbow trout) - 7 d 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 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

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

#### Persistence and degradability 12.2.

2,2',3,4,4',5,5'-HEPTACB UNLABELED (35065-29-3)		
Persistence and degradability	May cause long-term adverse effects in the environment.	
12.3. Bioaccumulative potential		
WHO COPLANAR & MONO-ORTHO PCB + P	CB-170 & PCB-180 UNLABELED 2 UG/ML IN ISOOCTANE	
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.	
ISOOCTANE UNLABELED (540-84-1)		
Log Pow	4.6	
2,3',4,4',5-PENTACB UNLABELED (31508-00-	-6)	
Log Pow	7.12	
12.4. Mobility in soil		
No additional information available		
12.5. Results of PBT and vPvB assessme	nt	
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 consideration	IS	
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	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.	
Ecology - waste materials	: Dispose of as unused product.	
SECTION 14: Transport information		
In accordance with ADR / RID / IMDG / IATA / AD	DN	
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	
13/11/2019	EN (Epolish US) 8/11	

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Hazard labels (DOT)	: 3 - Flammable liquid
v - /	
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 Deckoging Exceptions (40 CED 470 cm)	
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	
Overland transport	
Packing group (ADR)	
Class (ADR)	: 3 - Flammable liquid
Hazard identification number (Kemler No.)	: 33
Classification code (ADR)	: F1
Hazard labels (ADR)	: 3 - Flammable liquids
	3
Orange plates	33
	55
	1262
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	11
EAC	: 3YE
Excepted quantities (ADR)	: E2
Encopied quantities (ADA)	. L2
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 transmot	
Air transport	
DOT Quantity Limitations Passenger aircraft/rail	: 5L
(49 CFR 173.27)	
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 00 L
Civil Aeronautics Law	Elammable liquide
	: Flammable liquids

### 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

#### 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			
WHO COPLANAR & MONO-ORTHO PCB + PCB-170 & PCB-180 UNLABELED 2 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.		
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.		
15.2. International regulations			

#### CANADA

#### WHO COPLANAR & MONO-ORTHO PCB + PCB-170 & PCB-180 UNLABELED 2 UG/ML IN ISOOCTANE

Listed on the Canadian DSL (Domestic Substances List)

#### 15.2.1. National regulations

No additional information available

#### 15.3. US State regulations

15.5. 00 otate regulations				
WHO COPLANAR & MONO-ORTHO PCB + PCB-170 & PCB-180 UNLABELED 2 UG/ML IN ISOOCTANE()				
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 - Propositio Toxicity - Male	on 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		
ISOOCTANE 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	
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				

### 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

### **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:

LEXI OF K-, TF and LOI	
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Asp. Tox. 1	Aspiration hazard Category 1
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Flam. Liq. 1	Flammable liquids 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
H224	Extremely flammable liquid and vapour
H225	Highly flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H318	Causes serious eye damage
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
R38	Irritating to skin
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
R67	Vapors may cause drowsiness and dizziness
F	Highly flammable
Ν	Dangerous for the environment
Xi	Irritant
Xn	Harmful

NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
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