

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: 26/06/2014 Revision date: 08/07/2020 Supersedes: 26/06/2014 Version: 2.0

ES-5510-CS1

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

1.1. Product identifier

Product form : Mixtures

Product name : EXTENDED PHENOLIC CALIBRATION SOLUTION CS1 (UNLABELED/13C, 99%)

Product code : ES-5510-CS1

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

1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA

USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> www.isotope.com

Emergency telephone number

Emergency numbers:

Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 2 H225 Skin Irrit. 2 H315 Eye Irrit. 2 H319 Carc. 2 H351 STOT SE 3 H336 Repr. 2 H361d

Full text of hazard classes and H-statements : see section 16

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

Carc.Cat.3; R40

F; R11 Xn; R20 Xn; R65

Full text of R-phrases: see section 16

GHS-US classification

Flam. Liq. 2 H225 Skin Irrit. 2 H315 Eye Irrit. 2A H319 Carc. 2 H351 Repr. 2 H361 STOT SE 3 H336 Aquatic Acute 2 H401

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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(UNLABELED/13C, 99%) ES-5510-CS1

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2.2. Label elements

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

Hazard pictograms (CLP)







GHS02

Signal word (CLP) : Danger

Hazardous ingredients : TOLUENE UNLABELED

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

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H351 - Suspected of causing cancer (in contact with skin, if inhaled, if swallowed)
H361 - Suspected of damaging the unborn child. (in contact with skin, if inhaled, if swallowed)

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof electrical, lighting, ventilating equipment P261 - Avoid breathing dust, fume, gas, mist, spray, vapors.

P264 - Wash Both hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective clothing, protective gloves.

GHS-US labeling

Hazard pictograms (GHS-US)

Precautionary statements (CLP)







Signal word (GHS-US) : Danger

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

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H336 - May cause drowsiness or dizziness

H351 - Suspected of causing cancer (Dermal, Inhalation, oral)

H361 - Suspected of damaging the unborn child. (Dermal, oral, Inhalation)

H401 - Toxic to aquatic life

Precautionary statements (GHS-US) : P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking.

P233 - Keep container tightly closed.

P240 - Ground/Bond container and receiving equipment

P241 - Use explosion-proof electrical, lighting, ventilating equipment

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge. P261 - Avoid breathing dust, fume, gas, mist, spray, vapors. P264 - Wash Both hands thoroughly after handling.

P271 - Use only outdoors or in a well-ventilated area.

P273 - Avoid release to the environment.

P280 - Wear protective clothing, protective gloves. 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

P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P308+P313 - If exposed or concerned: Get medical advice/attention.

P312 - Call a poison center or doctor if you feel unwell

P321 - Specific treatment (see Hazard pictograms (CLP) on this label) P332+P313 - If skin irritation occurs: Get medical advice/attention. P337+P313 - If eye irritation persists: Get medical advice/attention.

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P362 - Take off contaminated clothing and wash before reuse.

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

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
N-NONANE UNLABELED	(CAS-No.) 111-84-2 (EC-No.) 203-913-4	97.40719544	R10 Xn; R20 Xn; R65 Xi; R36/38 R67
TOLUENE UNLABELED	(CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index-No.) 601-021-00-3 (REACH-no) 01-2119471310-51	2.59233782	F; R11 Xi; R38 Xn; R65 Repr.Cat.3; R62 Repr.Cat.3; R63 R67 N; R51/53 Xn; R48/20
METHYL TRICLOSAN (RING-13C12, 99%)	(CAS-No.) 4640-01-1 (Unlabeled)	0.00014584	Xn; R20/21/22 N; R50/53
PENTACHLOROANISOLE (13C6, 99%)	(CAS-No.) 1825-21-4 (Unlabeled)	0.00014514	Xn; R22 N; R50/53
2,4-DIBROMOANISOLE (RING-13C6, 99%)	(CAS-No.) 21702-84-1 (Unlabeled) (EC-No.) 244-536-5	0.00001462	Xi; R36/37/38
2,4,6-TRIBROMOANISOLE (RING-13C6, 99%)	(CAS-No.) 607-99-8 (Unlabeled)	0.00001445	R53
2,4,5-TRIBROMOANISOLE (RING-13C6, 99%)	(CAS-No.) 95970-10-8 (Unlabeled)	0.00001444	R53
4-METHOXY-2,2',3,4',5,5'-HEXACB (13C12, 99%)	(CAS-No.) 169295-19-6 (Unlabeled) (EC Index-No.) 602-039-00-4 (Unlabeled)	0.00001437	Xn; R48/20 N; R50/53
4-METHOXY-2,2',3,4',5,5',6-HEPTACB (13C12, 99%)	(CAS-No.) 1629523-2 (Unlabeled) (EC Index-No.) 602-039-00-4	0.00001433	Xn; R48/20/21/22 N; R50/53
PENTABROMOANISOLE (13C6, 99%)	(CAS-No.) 1825-26-9 (Unlabeled)	0.00001426	R53
6-METHOXY-2,2',4,4'-TETRABDE (RING-13C12, 99%)	(CAS-No.) 102739-99-1 (Unlabeled)	0.00001425	T; R23 Xn; R22 Xi; R36/37/38
4-METHOXY-2,3,3',4',5-PENTACB (13C12, 99%)	(CAS-No.) 169295-14-1 (Unlabeled) (EC Index-No.) 602-039-00-4 (Unlabeled)	0.00001422	Xn; R48/20/21/22 N; R50/53
6'-METHOXY-2,2',4,4',6-PENTABDE (13C12, 99%)	(CAS-No.) 1391119-70-2 (Unlabeled)	0.0000142	Xn; R20/21/22 Xi; R36/37/38
2,2',3,3',4,5,5',6,6'-NONACB (PCB-208) (13C12, 99%)	(CAS-No.) 234432-92-9 (EC Index-No.) 602-039-00-4 (Unlabeled)	0.00001387	N; R50/53 R48
3,3',4,4'-TETRABDE (BDE-77) (13C12, 99%)	(CAS-No.) 93703-48-1 (Unlabeled)	0.0000104	Carc.Cat.1; R45 Carc.Cat.1; R49 Xn; R22 Xi; R41 Xi; R37 Xi; R38 N; R51/53

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
2,2',3,4,4',6-HEXABDE (BDE-139) (13C12, 99%)	(CAS-No.) 488710-25-4	0.0000104	Carc.Cat.1; R45 Carc.Cat.1; R49 Xn; R22 Xi; R41 Xi; R37 Xi; R38 N; R51/53
DIMETHYL TETRABROMOBISPHENOL A (RING-13C12, 99%)	(CAS-No.) 37853-61-5 (Unlabeled) (EC-No.) 201-236-9	0.00000729	Xi; R36/37/38 N; R50
METHYL TRICLOSAN UNLABELED	(CAS-No.) 4640-01-1	0.00000029	N; R50/53
PENTACHLOROANISOLE UNLABELED	(CAS-No.) 1825-21-4 (Unlabeled)	0.00000029	Xn; R22 N; R50/53
6-METHOXY-2,2',4,4'-TETRABDE UNLABELED	(CAS-No.) 102739-99-1	0.00000003	N; R50/53 Xi; R36/37/38 Xn; R22
2,4,6-TRIBROMOANISOLE UNLABELED	(CAS-No.) 607-99-8	0.00000003	R53
2,4,5-TRIBROMOANISOLE UNLABELED	(CAS-No.) 95970-10-8	0.00000003	R53
PENTABROMOANISOLE UNLABELED	(CAS-No.) 1825-26-9	0.00000003	R53
2,4-DIBROMOANISOLE UNLABELED	(CAS-No.) 21702-84-1 (EC-No.) 244-536-5	0.00000003	Xi; R36/37/38
4-METHOXY-2,3,3',4',5-PENTACB UNLABELED	(CAS-No.) 169295-14-1 (EC Index-No.) 602-039-00-4	0.00000003	Xn; R48/20/21/22 N; R50/53
4-METHOXY-2,2',3,4',5,5'-HEXACB UNLABELED	(CAS-No.) 169295-19-6 (EC Index-No.) 602-039-00-4	0.00000003	Xn; R48/20/21/22 N; R50/53
4-METHOXY-2,2',3,4'-TETRABDE UNLABELED	(CAS-No.) 602326-25-0 (Unlabeled)	0.00000003	Xn; R48/21/22 N; R50/53
4-METHOXY-2,2',3,4',5,5',6-HEPTACB UNLABELED	(CAS-No.) 169295-23-2 (EC Index-No.) 602-039-00-4	0.00000003	Xn; R48/20/21/22 N; R50/53
3-METHOXY-2,2',4,4'-TETRABDE UNLABELED	(CAS-No.) 602326-28-0 (Unlabeled)	0.00000003	Xn; R20/21/22 N; R50/53
5-METHOXY-2,2',4,4'-TETRABDE UNLABELED	(CAS-No.) 602326-19-2 (Unlabeled)	0.0000003	Xn; R20/21/22 N; R50/53
4'-METHOXY-2,2',4,5'-TETRABDE UNLABELED	(CAS-No.) 476430-88-3 (Unlabeled)	0.0000003	Xn; R20/21/22 Xi; R36/37/38
5'-METHOXY-2,2',4,4',5-PENTABDE UNLABELED	(CAS-No.) 923925-51-3 (Unlabeled)	0.00000003	Carc.Cat.1; R45 Carc.Cat.1; R49 Xn; R20 Xn; R21 Xn; R22 N; R50
6-METHOXY-2,2',4,4',5-PENTABDE UNLABELED	(CAS-No.) 497106-83-9 (Unlabeled)	0.00000003	Carc.Cat.1; R45 Carc.Cat.1; R49 Xn; R20 Xn; R21 Xn; R22 N; R50
DIMETHYL TETRABROMOBISPHENOL A UNLABELED	(CAS-No.) 37853-61-5 (EC-No.) 201-236-9	0.0000001	N; R50 Xi; R36/38 R67

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N-NO NANE UNLABELED	(CAS-No.) 111-84-2 (EC-No.) 203-913-4	97.40719544	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304
TOLUENE UNLABELED	(CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index-No.) 601-021-00-3 (REACH-no) 01-2119471310-51	2.59233782	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
METHYL TRICLOSAN (RING-13C12, 99%)	(CAS-No.) 4640-01-1 (Unlabeled)	0.00014584	Aquatic Acute 1, H400
PENTACHLOROANISOLE (13C6, 99%)	(CAS-No.) 1825-21-4 (Unlabeled)	0.00014514	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
2,4-DIBROMOANISOLE (RING-13C6, 99%)	(CAS-No.) 21702-84-1 (Unlabeled) (EC-No.) 244-536-5	0.00001462	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336
2,4,6-TRIBROMOANISOLE (RING-13C6, 99%)	(CAS-No.) 607-99-8 (Unlabeled)	0.00001445	Aquatic Chronic 4, H413
2,4,5-TRIBROMOANISOLE (RING-13C6, 99%)	(CAS-No.) 95970-10-8 (Unlabeled)	0.00001444	Aquatic Chronic 4, H413
4-METHOXY-2,2',3,4',5,5'-HEXACB (13C12, 99%)	(CAS-No.) 169295-19-6 (Unlabeled) (EC Index-No.) 602-039-00-4 (Unlabeled)	0.00001437	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-METHOXY-2,2',3,4',5,5',6-HEPTACB (13C12, 99%)	(CAS-No.) 1629523-2 (Unlabeled) (EC Index-No.) 602-039-00-4	0.00001433	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PENTABROMOANISOLE (13C6, 99%)	(CAS-No.) 1825-26-9 (Unlabeled)	0.00001426	Aquatic Chronic 4, H413
6-METHOXY-2,2',4,4'-TETRABDE (RING-13C12, 99%)	(CAS-No.) 102739-99-1 (Unlabeled)	0.00001425	Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 1 (Inhalation:vapour), H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
4-METHOXY-2,3,3',4',5-PENTACB (13C12, 99%)	(CAS-No.) 169295-14-1 (Unlabeled) (EC Index-No.) 602-039-00-4 (Unlabeled)	0.00001422	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
6'-METHOXY-2,2',4,4',6-PENTABDE (13C12, 99%)	(CAS-No.) 1391119-70-2 (Unlabeled)	0.0000142	Not classified
2,2',3,3',4,5,5',6,6'-NONACB (PCB-208) (13C12, 99%)	(CAS-No.) 234432-92-9 (EC Index-No.) 602-039-00-4 (Unlabeled)	0.00001387	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,3',4,4'-TETRABDE (BDE-77) (13C12, 99%)	(CAS-No.) 93703-48-1 (Unlabeled)	0.0000104	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Chronic 2, H411
2,2',3,4,4',6-HEXABDE (BDE-139) (13C12, 99%)	(CAS-No.) 488710-25-4	0.0000104	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Chronic 2, H411
DIMETHYL TETRABROMOBISPHENOL A (RING-13C12, 99%)	(CAS-No.) 37853-61-5 (Unlabeled) (EC-No.) 201-236-9	0.00000729	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Aquatic Acute 1, H400 (M=10)
METHYL TRICLOSAN UNLABELED	(CAS-No.) 4640-01-1	0.00000029	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PENTACHLOROANISOLE UNLABELED	(CAS-No.) 1825-21-4 (Unlabeled)	0.00000029	Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
6-METHOXY-2,2',4,4'-TETRABDE UNLABELED	(CAS-No.) 102739-99-1	0.00000003	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4,6-TRIBROMOANISOLE UNLABELED	(CAS-No.) 607-99-8	0.00000003	Aquatic Chronic 4, H413
2,4,5-TRIBROMOANISOLE UNLABELED	(CAS-No.) 95970-10-8	0.00000003	Aquatic Chronic 4, H413
PENTABROMOANISOLE UNLABELED	(CAS-No.) 1825-26-9	0.00000003	Aquatic Chronic 4, H413

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2,4-DIBROMOANISOLE UNLABELED	(CAS-No.) 21702-84-1 (EC-No.) 244-536-5	0.0000003	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
4-METHOXY-2,3,3',4',5-PENTACB UNLABELED	(CAS-No.) 169295-14-1 (EC Index-No.) 602-039-00-4	0.00000003	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-METHOXY-2,2',3,4',5,5'-HEXACB UNLABELED	(CAS-No.) 169295-19-6 (EC Index-No.) 602-039-00-4	0.00000003	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-METHOXY-2,2',3,4'-TETRABDE UNLABELED	(CAS-No.) 602326-25-0 (Unlabeled)	0.00000003	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 STOT SE 2, H371 Aquatic Chronic 1, H410
4-METHOXY-2,2',3,4',5,5',6-HEPTACB UNLABELED	(CAS-No.) 169295-23-2 (EC Index-No.) 602-039-00-4	0.00000003	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3-METHOXY-2,2',4,4'-TETRABDE UNLABELED	(CAS-No.) 602326-28-0 (Unlabeled)	0.00000003	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312
5-METHOXY-2,2',4,4'-TETRABDE UNLABELED	(CAS-No.) 602326-19-2 (Unlabeled)	0.00000003	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312
4'-METHOXY-2,2',4,5'-TETRABDE UNLABELED 5'-METHOXY-2,2',4,4',5-PENTABDE UNLABELED	(CAS-No.) 476430-88-3 (Unlabeled) (CAS-No.) 923925-51-3 (Unlabeled)	0.00000003 0.00000003	Not classified Carc. 1A, H350 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Aquatic Acute 1, H400
6-METHOXY-2,2',4,4',5-PENTABDE UNLABELED	(CAS-No.) 497106-83-9 (Unlabeled)	0.00000003	Carc. 1A, H350 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312 Aquatic Acute 1, H400
DIMETHYL TETRABROMOBISPHENOL A UNLABELED	(CAS-No.) 37853-61-5 (EC-No.) 201-236-9	0.0000001	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Aquatic Acute 1, H400 (M=10)
Name	Product identifier	%	GHS-US classification
N-NONANE UNLABELED	(CAS-No.) 111-84-2	97.40719544	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Asp. Tox. 1, H304
TOLUENE UNLABELED	(CAS-No.) 108-88-3	2.59233782	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Acute 2, H401
METHYL TRICLOSAN (RING-13C12, 99%) PENTACHLOROANISOLE (13C6, 99%)	(CAS-No.) 4640-01-1 (Unlabeled) (CAS-No.) 1825-21-4 (Unlabeled)	0.00014584 0.00014514	Aquatic Acute 1, H400 Acute Tox. 4 (Oral), H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4-DIBROMOANISOLE (RING-13C6, 99%)	(CAS-No.) 21702-84-1 (Unlabeled)	0.00001462	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336
2,4,6-TRIBROMOANISOLE (RING-13C6, 99%)	(CAS-No.) 607-99-8 (Unlabeled)	0.00001445	Aquatic Chronic 4, H413
2,4,5-TRIBROMOANISOLE (RING-13C6, 99%)	(CAS-No.) 95970-10-8 (Unlabeled)	0.00001444	Aquatic Chronic 4, H413
4-METHOXY-2,2',3,4',5,5'-HEXACB (13C12, 99%)	(CAS-No.) 169295-19-6 (Unlabeled)	0.00001437	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-METHOXY-2,2',3,4',5,5',6-HEPTACB (13C12, 99%)	(CAS-No.) 1629523-2 (Unlabeled)	0.00001433	Not classified
PENTABROMOANISOLE (13C6, 99%) 6-METHOXY-2,2',4,4'-TETRABDE (RING-13C12, 99%)	(CAS-No.) 1825-26-9 (Unlabeled) (CAS-No.) 102739-99-1 (Unlabeled)	0.00001426 0.00001425	Aquatic Chronic 4, H413 Flam. Liq. 2, H225 Acute Tox. 4 (Oral), H302 Acute Tox. 1 (Inhalation:vapour), H330 Skin Irrit. 2, H315 Eye Irrit. 2A, H319

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4-METHOXY-2,3,3',4',5-PENTACB (13C12, 99%)	(CAS-No.) 169295-14-1 (Unlabeled)	0.00001422	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
6'-METHOXY-2,2',4,4',6-PENTABDE (13C12, 99%)	(CAS-No.) 1391119-70-2 (Unlabeled)	0.0000142	Not classified
2,2',3,3',4,5,5',6,6'-NONACB (PCB-208) (13C12, 99%)	(CAS-No.) 234432-92-9	0.00001387	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3,3',4,4'-TETRABDE (BDE-77) (13C12, 99%)	(CAS-No.) 93703-48-1 (Unlabeled)	0.0000104	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
2,2',3,4,4',6-HEXABDE (BDE-139) (13C12, 99%)	(CAS-No.) 488710-25-4	0.0000104	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 1A, H350 STOT SE 3, H336 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
DIMETHYL TETRABROMOBISPHENOL A (RING-13C12, 99%)	(CAS-No.) 37853-61-5 (Unlabeled)	0.00000729	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 Aquatic Acute 1, H400
METHYL TRICLOSAN UNLABELED	(CAS-No.) 4640-01-1	0.00000029	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PENTACHLOROANISOLE UNLABELED	(CAS-No.) 1825-21-4 (Unlabeled)	0.00000029	Aquatic Acute 1, H400
6-METHOXY-2,2',4,4'-TETRABDE UNLABELED	(CAS-No.) 102739-99-1	0.00000003	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4,6-TRIBROMOANISOLE UNLABELED	(CAS-No.) 607-99-8	0.00000003	Aquatic Chronic 4, H413
2,4,5-TRIBROMOANISOLE UNLABELED	(CAS-No.) 95970-10-8	0.00000003	Aquatic Chronic 4, H413
PENTABROMOANISOLE UNLABELED	(CAS-No.) 1825-26-9	0.00000003	Aquatic Chronic 4, H413
2,4-DIBROMOANISOLE UNLABELED	(CAS-No.) 21702-84-1	0.00000003	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335
4-METHOXY-2,3,3',4',5-PENTACB UNLABELED	(CAS-No.) 169295-14-1	0.00000003	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-METHOXY-2,2',3,4',5,5'-HEXACB UNLABELED	(CAS-No.) 169295-19-6	0.00000003	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
4-METHOXY-2,2',3,4'-TETRABDE UNLABELED	(CAS-No.) 602326-25-0 (Unlabeled)	0.0000003	Not classified
4-METHOXY-2,2',3,4',5,5',6-HEPTACB UNLABELED	(CAS-No.) 169295-23-2	0.00000003	STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
3-METHOXY-2,2',4,4'-TETRABDE UNLABELED	(CAS-No.) 602326-28-0 (Unlabeled)	0.0000003	Not classified
5-METHOXY-2,2',4,4'-TETRABDE UNLABELED	(CAS-No.) 602326-19-2 (Unlabeled)	0.0000003	Not classified
4'-METHOXY-2,2',4,5'-TETRABDE UNLABELED	(CAS-No.) 476430-88-3 (Unlabeled)	0.0000003	Not classified
5'-METHOXY-2,2',4,4',5-PENTABDE UNLABELED	(CAS-No.) 923925-51-3 (Unlabeled)	0.0000003	Not classified
6-METHOXY-2,2',4,4',5-PENTABDE UNLABELED	(CAS-No.) 497106-83-9 (Unlabeled)	0.00000003	Not classified
DIMETHYL TETRABROMOBISPHENOL A UNLABELED	(CAS-No.) 37853-61-5	0.00000001	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 Aquatic Acute 1, H400

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

SECTION 4: First aid measures

4.1.	Description of first aid measures	
First-aid	d 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	d measures after inhalation	: Allow victim to breathe fresh air. Allow the victim to rest.
First-aid	d measures after skin contact	: Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse.
First-aid	d measures after eve contact	· Rinse immediately with plenty of water. Obtain medical attention if pain, blinking or redness

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persists.

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First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention.

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

Symptoms/effects : May cause drowsiness or dizziness. Suspected of damaging the unborn child. Suspected of

causing cancer (in contact with skin, if inhaled, if swallowed).

Symptoms/effects after inhalation : May be harmful if inhaled. May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation. Symptoms/effects after ingestion : May be harmful if swallowed.

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 : Water spray. Dry powder. Foam. Carbon dioxide. Alcohol resistant foam.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapor.

5.3. Advice for firefighters

Firefighting instructions : Do not enter fire area without proper protective equipment, including respiratory protection.

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

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.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

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

spillage. Store away from other materials. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal.

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

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation

smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store at room temperature away from light and moisture.

Incompatible products : Strong bases. Strong acids.
Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

N-NONANE UNLABELED (111-84-2)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.00000000 ppm USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	CNS impair

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N-NONANE UNLABELED (11	l1-84-2)	
USA NIOSH	NIOSH REL (TWA) (mg/m³)	1050 mg/m³ USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TWA) (ppm)	200 ppm USA. NIOSH Recommended Exposure Limits
USA NIOSH	Remark (NIOSH)	Central Nervous System impairment
USA OSHA	OSHA PEL (TWA) (mg/m³)	1050 mg/m³ USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	1050 California permissible exposure limits for chemical contaminants.
USA OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm California permissible exposure limits for chemical contaminants.
TOLUENE UNLABELED (108	3-88-3)	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.00000000 ppm USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Visual impairment. Female reproductive. Pregnancy loss. 2015 Adoption. Substances for which there is a Biological Exposure Index or Indices (see BEI® section). Not classifiable as a human carcinogen.; Component: Toluene CAS-No.: 108-88-3 Parameters: Toluene Value: 0.0300 mg/l Biological specimen: Urine Remarks: End of shift (As soon as possible after exposure ceases) Basis: ACGIH - Biological Exposure Indices (BEI); Component: Toluene CAS-No.: 108-88-3 Parameters: Toluene Value: 0.0200 mg/l Biological specimen: In blood Remarks: Prior to last shift of workweek Basis: ACGIH - Biological Exposure Indices (BEI); Component: Toluene CAS-No.: 108-88-3 Parameters: o-Cresol Value: 0.3000 mg/g Biological specimen: Urine Remarks: End of shift (As soon as possible after exposure ceases) Basis: ACGIH - Biological Exposure Indices (BEI)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	375 mg/m³ USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TWA) (ppm)	100 ppm USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (mg/m³)	560 mg/m³ USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (ppm)	150 ppm USA. NIOSH Recommended Exposure Limits
USA OSHA	OSHA PEL (TWA) (mg/m³)	375 mg/m³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (STEL) (mg/m³)	560 mg/m³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (STEL) (ppm)	150 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm USA. Occupational Exposure Limits (OSHA) - Table Z-2
USA OSHA	Remark (OSHA)	OSHA PEL (TWA) - 200 ppm - USA. Occupational Exposure Limits (OSHA) - Table Z-2. Remarks: Z37.12-1967

Exposure controls

Appropriate engineering controls

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[:] Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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









Materials for protective clothing : Wear suitable protective clothing and gloves. Hand protection : Wear suitable protective clothing and gloves.

Eye protection : Wear eye protection. Chemical goggles or face shield with safety glasses.

Skin and body protection : Wear suitable protective clothing, gloves and eye/face protection.

: No data available

: No data available

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.

Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid
Appearance : Liquid
Color : Colorless

Odor : No data available : No data available Odor threshold : No data available pΗ Relative evaporation rate (butyl acetate=1) No data available No data available Melting point No data available Freezing point Boiling point No data available Flash point No data available Auto-ignition temperature : No data available Decomposition temperature No data available No data available Flammability (solid, gas) Vapor pressure No data available No data available Relative vapor density at 20 °C No data available Relative density No data available Solubility Log Pow No data available Log Kow : No data available No data available Viscosity, kinematic Viscosity, dynamic No data available Explosive properties No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Oxidizing properties

Explosion limits

No additional information available

10.2. Chemical stability

See storage and expiration date on CoA.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

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10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

l	6-METHOXY-2,2',4,4'-TETRABDE UNLABELED) (102739-99-1)

ATE CLP (oral) 500.000 mg/kg body weight

PENTACHLOROANISOLE (13C6, 99%) (1825-21-4 (Unlabeled))

ATE CLP (oral) 500.000 mg/kg body weight

N-NONANE UNLABELED (111-84-2)

· · · · · · · · · · · · · · · · · · ·	
LC50 inhalation rat (mg/l)	23760 mg/m³ male - 4 h
ATE CLP (vapors)	11.000 mg/l/4h
Skin corrosion/irritation, Dermal, rat	Result: Skin Irritation (Draize Test)
Additional information	: S. Typhimurium Result: negative

TOLUENE UNLABELED (108-88-3)

TOLUENE UNLABELED (108-88-3)	
LD50 oral rat	> 5580 mg/kg
LD50 dermal rabbit	12196 mg/kg
LC50 inhalation rat (mg/l)	12,500 - 28,800 mg/m3 - 4 h
ATE CLP (dermal)	12196.000 mg/kg body weight
ATE CLP (vapors)	12.500 mg/l/4h
ATE CLP (dust, mist)	12.500 mg/l/4h

6-METHOXY-2,2',4,4'-TETRABDE (RING-13C12, 99%) (102739-99-1 (Unlabeled))

ATE CLP (oral)	500.000 mg/kg body weight
ATE CLP (vapors)	0.050 mg/l/4h

4-METHOXY-2,2',3,4'-TETRABDE UNLABELED (602326-25-0 (Unlabeled))

* * *	
ATE CLP (oral)	500.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.

Serious eye damage/irritation : Causes serious eye irritation.

Respiratory or skin sensitization : Not classified Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer (in contact with skin, if inhaled, if swallowed).

Reproductive toxicity : Suspected of damaging the unborn child. Specific target organ toxicity – single exposure : May cause drowsiness or dizziness.

Specific target organ toxicity - repeated

exposure

: Not classified

Aspiration hazard : Not classified

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.

Symptoms/effects after inhalation : May be harmful if inhaled. May cause respiratory irritation.

Symptoms/effects after skin contact : Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : May be harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life.

DIMETHYL TETRABROMOBISPHENOL A UNLABELED (37853-61-5)		
LC50 fish 1 0.06 mg/l Pimephales promelas (fathead minnow) - 96 h		
EC50 Daphnia 1 7.9 mg/l Daphnia magna (Water flea) - 48 h		
PENTACHLOROANISOLE (13C6, 99%) (1825-21-4 (Unlabeled))		
LC50 fish 1 0.65 mg/l Pimephales promelas (fathead minnow) - 96 h		

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PENTACHLOROANISOLE (13C6, 99%) (1825-21-4 (Unlabeled))				
EC50 Daphnia 1	0.027 mg/l Daphnia magna (Water flea) - 48 h			
TOLUENE UNLABELED (108-88-3)				
EC50 Daphnia 1	8 mg/l Daphnia magna (Water flea) - 24h			
LC50 fish 2	7.63 mg/l Oncorhynchus mykiss (Rainbow trout) - 96 h			
EC50 Daphnia 2	6 mg/l Daphnia magna (Water flea) - Immobilization - 48 h			
ErC50 (algae)	245 mg/l Chlorella vulgaris (Fresh water algae) - 24 h			
ErC50 (other aquatic plants)	10 mg/l Pseudokirchneriella subcapitata (Green algae) - 24 h			
NOEC (chronic)	5.44 mg/l Pimephales promelas (fathead minnow) - 7 d			
PENTACHLOROANISOLE UNLABELED (1825-	-21-4 (Unlabeled))			
LC50 fish 1	0.65 mg/l Pimephales promelas (fathead minnow) - 96 h			
EC50 Daphnia 1	0.027 mg/l Daphnia magna (Water flea) - 48 h			
DIMETHYL TETRABROMOBISPHENOL A (RING-13C12, 99%) (37853-61-5 (Unlabeled))				
LC50 fish 1	0.06 mg/l Pimephales promelas (fathead minnow) - 96 h			
EC50 Daphnia 1	7.9 mg/l Daphnia magna (Water flea) - 48 h			

12.2. Persistence and degradability

TOLUENE UNLABELED (108-88-3)		
Persistence and degradability	Readily biodegradable.	

12.3. Bioaccumulative potential

METHYL TRICLOSAN (RING-13C12, 99%) (4640-01-1 (Unlabeled))				
Log Pow	5.269			
METHYL TRICLOSAN UNLABELED (4640-01-	1)			
Log Pow	Log Pow 5.269			
N-NONANE UNLABELED (111-84-2)	N-NONANE UNLABELED (111-84-2)			
Log Pow	5.65			
Bioaccumulative potential	Indication of bioaccumulation.			
TOLUENE UNLABELED (108-88-3)				
BCF fish 1	0.05 mg/l Leuciscus idus (Golden orfe) - 3 d			
Bioconcentration factor (BCF REACH)	90			

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

TOLUENE UNLABELED (108-88-3)
PBT: not relevant – no registration required

12.6. Other adverse effects

Other adverse effects : Environmental precautions. Disposal must be done according to official regulations.

Other information : Avoid release to the environment.

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.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

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

14.1. UN number

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

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Nonanes

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

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Hazard labels (DOT) : 3 - Flammable liquid



Packing group (DOT) : III - Minor Danger

DOT Special Provisions (49 CFR 172.102)

: B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this

subchapter are applicable.

IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table

2 for UN2672). T2 - 1.5 178.274(d)(2) Normal...... 178.275(d)(3)

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

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

14.3. Additional information

Other information : No supplementary information available.

Overland transport

Packing group (ADR) : III

Class (ADR) : 3 - Flammable liquid

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

Hazard labels (ADR) : 3 - Flammable liquids



Orange plates

30 1920

Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) 5I
EAC : 3Y
Excepted quantities (ADR) : E1

Transport by sea

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

passenger vessel.

MFAG-No : 128

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 60 L

(49 CFR 173,27)

DOT Quantity Limitations Cargo aircraft only (49 : 220 L

CFR 175.75)

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14.4. Environmental hazards				
	No supplementary information available.			
14.5. Special precautions for user				
	H of MADDOL 7070 and the IDC Code			
14.6. Transport in bulk according to Annex	II OF MARPOL 73/76 and the IBC Code			
Not applicable				
SECTION 15: Regulatory information				
15.1. US Federal regulations				
EXTENDED PHENOLIC CALIBRATION SOLUT	ION CS1 (UNLABELED/13C, 99%)			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
2,4,5-TRIBROMOANISOLE (RING-13C6, 99%) (
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313			
6-METHOXY-2,2',4,4'-TETRABDE UNLABELED	0 (102739-99-1)			
SARA Section 302 Threshold Planning	Not subject to reporting requirements of the United States SARA Section 302.			
Quantity (TPQ)				
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
DIMETHYL TETRABROMOBISPHENOL A UNL	ABELED (37853-61-5)			
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.			
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313			
METHYL TRICLOSAN (RING-13C12, 99%) (464	0-01-1 (Unlabeled))			
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313			
METHYL TRICLOSAN UNLABELED (4640-01-1				
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313			
PENTACHLOROANISOLE (13C6, 99%) (1825-2	11-4 (Unlabeled))			
SARA Section 302 Threshold Planning	Not subject to reporting requirements of the United States SARA Section 302			
Quantity (TPQ)				
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313			
N-NONANE UNLABELED (111-84-2)				
Listed on the United States TSCA (Toxic Substar				
EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.			
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.			
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard			
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
TOLUENE UNLABELED (108-88-3)				
Listed on the United States TSCA (Toxic Substar				
CERCLA RQ	1000 lb			
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302			
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard			
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313			

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6-METHOXY-2,2',4,4'-TETRABDE (RING-13C12	2. 99%) (102739-99-1 (Unlabeled))
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
PENTACHLOROANISOLE UNLABELED (1825-	
SARA Section 302 Threshold Planning	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA
Quantity (TPQ) SARA Section 311/312 Hazard Classes	Title III, Section 302
SARA Section 311/312 Hazard Classes SARA Section 313 - Emission Reporting	Immediate (acute) health hazard Not subject to reporting requirements of the United States SARA Section 313
· •	
2,4,6-TRIBROMOANISOLE UNLABELED (607-	,
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
2,4,5-TRIBROMOANISOLE UNLABELED (9597	(0-10-8)
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
2,4,6-TRIBROMOANISOLE (RING-13C6, 99%)	(607-99-8 (Unlabeled))
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
PENTABROMOANISOLE (13C6, 99%) (1825-26	S-9 (Unlabeled))
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
PENTABROMOANISOLE UNLABELED (1825-2	26-9)
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
2,4-DIBROMOANISOLE (RING-13C6, 99%) (21	702-84-1 (Unlabeled))
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
2,4-DIBROMOANISOLE UNLABELED (21702-8	14-1)
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
DIMETHYL TETRABROMOBISPHENOL A (RIN	G-13C12, 99%) (37853-61-5 (Unlabeled))
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
2,2',3,3',4,5,5',6,6'-NONACB (PCB-208) (13C12	2, 99%) (234432-92-9)
Not listed on the United States TSCA (Toxic Sub-	· · · · · · · · · · · · · · · · · · ·
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.
4-METHOXY-2,3,3',4',5-PENTACB UNLABELE	D (169295-14-1)
SARA Section 302 Threshold Planning	Not subject to reporting requirements of the United States SARA Section 302.
Quantity (TPQ)	
Quantity (TPQ) SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
, , , , , , , , , , , , , , , , , , ,	
SARA Section 313 - Emission Reporting	

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4-METHOXY-2,2',3,4',5,5'-HEXACB UNLABE	LED (169295-19-6)
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
4-METHOXY-2,2',3,4',5,5'-HEXACB (13C12, 9	9%) (169295-19-6 (Unlabeled))
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporing requirements of the United States SARA Section 313.
4-METHOXY-2,2',3,4'-TETRABDE UNLABELE	ED (602326-25-0 (Unlabeled))
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
4-METHOXY-2,2',3,4',5,5',6-HEPTACB UNLA	BELED (169295-23-2)
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
4-METHOXY-2,2',3,4',5,5',6-HEPTACB (13C12	2, 99%) (1629523-2 (Unlabeled))
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313
3-METHOXY-2,2',4,4'-TETRABDE UNLABELE	ED (602326-28-0 (Unlabeled))
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
5-METHOXY-2,2',4,4'-TETRABDE UNLABELE	ED (602326-19-2 (Unlabeled))
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
4'-METHOXY-2,2',4,5'-TETRABDE UNLABEL	ED (476430-88-3 (Unlabeled))
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
5'-METHOXY-2,2',4,4',5-PENTABDE UNLABE	ELED (923925-51-3 (Unlabeled))
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
6-METHOXY-2,2',4,4',5-PENTABDE UNLABE	
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
6'-METHOXY-2,2',4,4',6-PENTABDE (13C12,	99%) (1391119-70-2 (Unlabeled))
SARA Section 302 Threshold Planning Quantity (TPQ)	SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
3,3',4,4'-TETRABDE (BDE-77) (13C12, 99%)	(93703-48-1 (Unlabeled))
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
2,2',3,4,4',6-HEXABDE (BDE-139) (13C12, 99	9%) (488710-25-4)
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
	Immediate (south) health hazard
SARA Section 311/312 Hazard Classes SARA Section 313 - Emission Reporting	Immediate (acute) health hazard Not subject to reporting requirements of the United States SARA Section 313

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15.2. International regulations

CANADA

EXTENDED PHENOLIC CALIBRATION SOLUTION CS1 (UNLABELED/13C, 99%)

Listed on the Canadian DSL (Domestic Substances List)

N-NONANE UNLABELED (111-84-2)

Listed on the Canadian DSL (Domestic Substances List)

TOLUENE UNLABELED (108-88-3)

Listed on the Canadian DSL (Domestic Substances List)

2,2',3,3',4,5,5',6,6'-NONACB (PCB-208) (13C12, 99%) (234432-92-9)

15.2.1. National regulations

TOLUENE UNLABELED (108-88-3)

2,2',3,3',4,5,5',6,6'-NONACB (PCB-208) (13C12, 99%) (234432-92-9)

Not listed on the Canadian DSL (Domestic Substances List)/NDSL (Non-Domestic Substances List)

15.3. US State regulations

EXTENDED PHENOLIC CA	ALIBRATION SOLUTION C	S1 (UNLABELED/13C, 99%)()			
U.S California - Proposition 65 - Carcinogens List		No			
U.S California - Proposition 65 - Developmental Toxicity		No			
U.S California - Proposition Toxicity - Female	n 65 - Reproductive	No			
U.S California - Proposition Toxicity - Male	n 65 - Reproductive	No			
State or local regulations		U.S Pennsylvania - RTK (Ri U.S New Jersey - Right to K	ght to Know) List now Hazardous Substance Lis	t	
2,4,5-TRIBROMOANISOLE	(RING-13C6, 99%) (95970	-10-8 (Unlabeled))			
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		
6-METHOXY-2,2',4,4'-TETF	RABDE UNLABELED (1027	739-99-1)			
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		
DIMETHYL TETRABROMO	BISPHENOL A UNLABEL	ED (37853-61-5)			
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		
METHYL TRICLOSAN (RIN	IG-13C12, 99%) (4640-01-1	(Unlabeled))	·		
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		
METHYL TRICLOSAN UNL	ABELED (4640-01-1)				
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		

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PENTACHLOROANISOLE	(13C6, 99%) (1825-21-4 (Uni	labeled))		
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	, ,
		Female	Male	
No	No	No	No	
N-NONANE UNLABELED ((111_81_2)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	(NOINE)
Carolinogorio Liot	Dovolopinional Toxiony	Female	Male	
No	No	No	No	
TOLLIENE UNI ADELED (4	00.00.2)			
TOLUENE UNLABELED (1		LLC California	II.C. California	No significant rials lavel
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 - Reproductive Toxicity -	Proposition 65 - Reproductive Toxicity -	(NSRL)
Carcinogens List	Developmental Toxicity	Female	Male	
No	Yes	No	No	
		-		
6-METHOXY-2,2',4,4'-TETH U.S California -	RABDE (RING-13C12, 99%) (U.S California -	U.S California -	II S California	No cignificant rial lavel
U.S California - Proposition 65 -	O.S California - Proposition 65 -	Proposition 65 -	U.S California - Proposition 65 -	No significant risk level
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	(NSRL)
Carcinogens List	Developmental Toxicity	Female	Male	
No	No	No	No	
DENTACHI ODGANISCI E	LINI ARELED (4005 04.4 (U.	nlahalad\\		
U.S California -	UNLABELED (1825-21-4 (UI U.S California -	U.S California -	U.S California -	No significant riple level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	No significant risk level
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	(NSRL)
Carcinogens List	Developmental Toxicity	Female	Male	
No	No	No	No	
2,4,6-TRIBROMOANISOLE	IINI ARFI FD (607-99-8)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	(IVOIXE)
Caroniogono Liot	Dovolopinoniai Toxiony	Female	Male	
No	No	No	No	
		**		
	UNLABELED (95970-10-8)	II C California	II.C. California	No olgalities at all-later 1
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
No	No	No	No	
	(RING-13C6, 99%) (607-99-			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No			
No	No	No	No	
	13C6, 99%) (1825-26-9 (Unla			1
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	
No	No	No	No	
110	110	140	140	
PENTABROMOANISOLE U		110 0 "	110 0 "	Nie ein W. Add C.
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
		U.S California - Proposition 65 - Reproductive Toxicity -	U.S California - Proposition 65 - Reproductive Toxicity -	No significant risk level (NSRL)

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	UNLABELED (1825-26-9)	Female	Male	
		Terriale	iviaic	
No	No	No	No	
2,4-DIBROMOANISOLE (RING-13C6, 99%) (21702-84-	1 (Unlabeled))		
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
No	No	No	No	
2,4-DIBROMOANISOLE	UNLABELED (21702-84-1)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	, ,
3	, , , , , , , , , , , , ,	Female	Male	
No	No	No	No	
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	(IVOICE)
Carcinogens List	Developmental Toxicity	Female	Male	
No	No	No	No	
			INO	
	CB (PCB-208) (13C12, 99%)			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	
		Female	Male	
Yes	Yes	Yes	Yes	
4-METHOXY-2,3,3',4',5-P	ENTACB UNLABELED (1692	95-14-1)		
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	, ,
· ·		Female	Male	
Yes	Yes	Yes	Yes	
4-METHOXY-2.3.3'.4'.5-P	ENTACB (13C12, 99%) (1692	95-14-1 (Unlabeled))		
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk level
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	, ,
-		Female	Male	
Yes	Yes	Yes	Yes	
	'-HEXACB UNLABELED (1692			
U.S California -	U.S California -	U.S California -	U.S California -	No significant risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	(IVOIVE)
		Female	Male	
Yes	Yes	Yes	Yes	
4-METHOXY-2,2',3,4',5,5 U.S California -	'-HEXACB (13C12, 99%) (1692 U.S California -	U.S California -	U.S California -	No significant risk leve
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	(NSRL)
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	(IVOINE)
Carolinogeria Liat	Developmental Toxicity	Female	Male	
Yes	Yes	Yes	Yes	
U.S California -	U.S California -	26-25-0 (Unlabeled)) U.S California -	U.S California -	No cignificant rials lava
Proposition 65 -	Proposition 65 -	Proposition 65 -	Proposition 65 -	No significant risk leve
Carcinogens List	Developmental Toxicity	Reproductive Toxicity -	Reproductive Toxicity -	(NSRL)
	DEVELOPITIETICAL LOXICILY	INSPIDUALING IUXIUILY -	Neproductive ruxicity -	1
Carolinogono Liot	,	Female	Male	

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4-METHOXY-2,2',3,4'-TE	TRABDE UNLABELED (60232	26-25-0 (Unlabeled))		
No	No	No	No	
4-METHOXY-2.2'.3.4'.5.5'	,6-HEPTACB UNLABELED (1	69295-23-2)		
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	Yes	Yes	Yes	
4-METHOXY-2,2',3,4',5,5'	,6-HEPTACB (13C12, 99%) (1	629523-2 (Unlabeled))		
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	Yes	Yes	Yes	
3-METHOXY-2,2',4,4'-TET	TRABDE UNLABELED (60232	26-28-0 (Unlabeled))		
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	
5-METHOXY-2,2',4,4'-TET	TRABDE UNLABELED (60232	26-19-2 (Unlabeled))		
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	
4'-METHOXY-2,2',4,5'-TE	TRABDE UNLABELED (4764	30-88-3 (Unlabeled))		
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	
5'-METHOXY-2,2',4,4',5-F	PENTABDE UNLABELED (923	3925-51-3 (Unlabeled))		
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	
6-METHOXY-2,2',4,4',5-P	ENTABDE UNLABELED (497	106-83-9 (Unlabeled))		
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	
6'-METHOXY-2,2',4,4'.6-F	PENTABDE (13C12, 99%) (139	91119-70-2 (Unlabeled))		
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
3,3',4,4'-TETRABDE (BD	E-77) (13C12, 99%) (93703-48	3-1 (Unlabeled))	'	
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	

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(UNLABELED/13C, 99%) ES-5510-CS1

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2,2',3,4,4',6-HEXABDE (BDE-139) (13C12, 99%) (488710-25-4)					
U.S California - Proposition 65 - Carcinogens List	U.S California - Proposition 65 - Developmental Toxicity	U.S California - Proposition 65 - Reproductive Toxicity - Female	U.S California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)	
No	No	No	No		

2,4,5-TRIBROMOANISOLE (RING-13C6, 99%) (95970-10-8 (Unlabeled))

State or local regulations

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

6-METHOXY-2,2',4,4'-TETRABDE UNLABELED (102739-99-1)

State or local regulations

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

DIMETHYL TETRABROMOBISPHENOL A UNLABELED (37853-61-5)

State or local regulations

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

METHYL TRICLOSAN (RING-13C12, 99%) (4640-01-1 (Unlabeled))

State or local regulations

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

METHYL TRICLOSAN UNLABELED (4640-01-1)

State or local regulations

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

PENTACHLOROANISOLE (13C6, 99%) (1825-21-4 (Unlabeled))

State or local regulations

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

N-NONANE UNLABELED (111-84-2)

State or local regulations

- U.S. Idaho Non-Carcinogenic Toxic Air Pollutants Acceptable Ambient Concentrations
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. Massachusetts Right To Know List
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances

TOLUENE UNLABELED (108-88-3)

State or local regulations

- U.S. Delaware Pollutant Discharge Requirements Reportable Quantities
- U.S. New Jersey Right to Know Hazardous Substance List
- U.S. New York Reporting of Releases Part 597 List of Hazardous Substances
- U.S. Pennsylvania RTK (Right to Know) List
- U.S. Massachusetts Right To Know List

PENTACHLOROANISOLE UNLABELED (1825-21-4 (Unlabeled))

State or local regulations

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

2,4,6-TRIBROMOANISOLE UNLABELED (607-99-8)

State or local regulations

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

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2,4,5-TRIBROMOANISOLE UNLABELED (95970-10-8)

State or local regulations

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

2,4,6-TRIBROMOANISOLE (RING-13C6, 99%) (607-99-8 (Unlabeled))

State or local regulations

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

PENTABROMOANISOLE (13C6, 99%) (1825-26-9 (Unlabeled))

State or local regulations

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

PENTABROMOANISOLE UNLABELED (1825-26-9)

State or local regulations

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

2,4-DIBROMOANISOLE (RING-13C6, 99%) (21702-84-1 (Unlabeled))

State or local regulations

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

2,4-DIBROMOANISOLE UNLABELED (21702-84-1)

State or local regulations

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

DIMETHYL TETRABROMOBISPHENOL A (RING-13C12, 99%) (37853-61-5 (Unlabeled))

State or local regulations

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

2,2',3,3',4,5,5',6,6'-NONACB (PCB-208) (13C12, 99%) (234432-92-9)

State or local regulations

- U.S. Pennsylvania RTK (Right to Know) List
- U.S. New Jersey Excluded Volatile Organic Compounds

4-METHOXY-2,3,3',4',5-PENTACB UNLABELED (169295-14-1)

State or local regulations

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

4-METHOXY-2,3,3',4',5-PENTACB (13C12, 99%) (169295-14-1 (Unlabeled))

State or local regulations

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

4-METHOXY-2,2',3,4',5,5'-HEXACB UNLABELED (169295-19-6)

State or local regulations

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

4-METHOXY-2,2',3,4',5,5'-HEXACB (13C12, 99%) (169295-19-6 (Unlabeled))

State or local regulations

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

4-METHOXY-2,2',3,4'-TETRABDE UNLABELED (602326-25-0 (Unlabeled))

State or local regulations

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

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4-METHOXY-2,2',3,4'-TETRABDE UNLABELED (602326-25-0 (Unlabeled))

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

4-METHOXY-2,2',3,4',5,5',6-HEPTACB UNLABELED (169295-23-2)

State or local regulations

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

4-METHOXY-2,2',3,4',5,5',6-HEPTACB (13C12, 99%) (1629523-2 (Unlabeled))

State or local regulations

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

3-METHOXY-2,2',4,4'-TETRABDE UNLABELED (602326-28-0 (Unlabeled))

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

5-METHOXY-2,2',4,4'-TETRABDE UNLABELED (602326-19-2 (Unlabeled))

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

4'-METHOXY-2,2',4,5'-TETRABDE UNLABELED (476430-88-3 (Unlabeled))

State or local regulations

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

5'-METHOXY-2,2',4,4',5-PENTABDE UNLABELED (923925-51-3 (Unlabeled))

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

6-METHOXY-2,2',4,4',5-PENTABDE UNLABELED (497106-83-9 (Unlabeled))

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

6'-METHOXY-2,2',4,4',6-PENTABDE (13C12, 99%) (1391119-70-2 (Unlabeled))

State or local regulations

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

3,3',4,4'-TETRABDE (BDE-77) (13C12, 99%) (93703-48-1 (Unlabeled))

State or local regulations

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

2,2',3,4,4',6-HEXABDE (BDE-139) (13C12, 99%) (488710-25-4)

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

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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:

text of R-, H- and EUH-phrases	S.
Acute Tox. 1 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 1
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Acute Tox. 4	Acute toxicity (inhalation:vapour) Category 4
(Inhalation:vapour)	, real strain, (apour, calegory
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
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquatic Chronic 4	Hazardous to the aquatic environment - Chronic Hazard Category 4
Asp. Tox. 1	
•	Aspiration hazard Category 1
Carc. 1A	Carcinogenicity Category 1A
Carc. 2	Carcinogenicity Category 2
Eye Dam. 1	Serious eye damage/eye irritation Category 1
Eye Irrit. 2	Serious eye damage/eye irritation Category 2
Flam. Liq. 2	Flammable liquids Category 2
Flam. Liq. 3	Flammable liquids Category 3
Repr. 2	Reproductive toxicity Category 2
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
Skin Sens. 1	Skin sensitization, Category 1
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 2	Specific target organ toxicity (single exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor
H226	Flammable liquid and vapor
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H350	May cause cancer
H351	Suspected of causing cancer
H361	Suspected of damaging fertility or the unborn child
H361d	Suspected of damaging 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
H411	Toxic to aquatic life with long lasting effects
	May cause long lasting harmful effects to aquatic life
H413	· · · · · · · · · · · · · · · · · · ·
R10	Flammable
R11	Highly flammable
R20	Harmful by inhalation
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R21	Harmful in contact with skin
R22	Harmful if swallowed
R23	Toxic by inhalation
R36/37/38	Irritating to eyes, respiratory system and skin
R36/38	Irritating to eyes and skin
R37	Irritating to respiratory system

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(UNLABELED/13C, 99%) ES-5510-CS1

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R38	Irritating to skin
R40	Limited evidence of a carcinogenic effect
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
R48/21/22	Harmful: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed
R49	May cause cancer by inhalation
R50	Very toxic to aquatic organisms
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R53	May cause long-term adverse effects in the aquatic environment
R62	Possible risk of impaired fertility
R63	Possible risk of 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
Т	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 Multi-Solvent 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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