



EXTENDED PHENOLIC CALIBRATION SOLUTION CS2 (UNLABELED/¹³C, 99%)

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

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ES-5510-CS2

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 CS2 (UNLABELED/¹³C, 99%)
Product code : ES-5510-CS2

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
cilsales@isotope.com www.isotope.com

Emergency telephone number

Emergency numbers:

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 2 H225
Skin Irrit. 2 H315
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
Repr.Cat.3; R62
Repr.Cat.3; R63
F; R11
Xi; R36/38
N; R51
R67

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

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Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



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)

Precautionary statements (CLP)

: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical, lighting, ventilating equipment
P261 - Avoid breathing dust, fume, gas, mist, spray, vapors.
P264 - Wash Both hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective clothing, protective gloves.

GHS-US labeling

Hazard pictograms (GHS-US)



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.

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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.
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	97.40197187	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	2.59755991	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)	0.00014583	Xn; R20/21/22 N; R50/53
PENTACHLOROANISOLE (13C6, 99%)	(CAS-No.) 1825-21-4 (Unlabeled)	0.00014513	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
2,4,5-TRIBROMOANISOLE (RING-13C6, 99%)	(CAS-No.) 95970-10-8 (Unlabeled)	0.00001444	R53
2,4,6-TRIBROMOANISOLE (RING-13C6, 99%)	(CAS-No.) 607-99-8 (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

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
3,3',4,4'-TETRABDE (BDE-77) (¹³ C12, 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
2,2',3,4,4',6-HEXABDE (BDE-139) (¹³ C12, 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- ¹³ C12, 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	0.00000073	N; R50/53
PENTACHLOROANISOLE UNLABELED	(CAS-No.) 1825-21-4 (Unlabeled)	0.00000073	Xn; R22 N; R50/53
6-METHOXY-2,2',4,4'-TETRABDE UNLABELED	(CAS-No.) 102739-99-1	0.00000007	N; R50/53 Xi; R36/37/38 Xn; R22
2,4,6-TRIBROMOANISOLE UNLABELED	(CAS-No.) 607-99-8	0.00000007	R53
2,4,5-TRIBROMOANISOLE UNLABELED	(CAS-No.) 95970-10-8	0.00000007	R53
PENTABROMOANISOLE UNLABELED	(CAS-No.) 1825-26-9	0.00000007	R53
2,4-DIBROMOANISOLE UNLABELED	(CAS-No.) 21702-84-1 (EC-No.) 244-536-5	0.00000007	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	0.00000007	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	0.00000007	Xn; R48/20/21/22 N; R50/53
4-METHOXY-2,2',3,4'-TETRABDE UNLABELED	(CAS-No.) 602326-25-0 (Unlabeled)	0.00000007	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	0.00000007	Xn; R48/20/21/22 N; R50/53
3-METHOXY-2,2',4,4'-TETRABDE UNLABELED	(CAS-No.) 602326-28-0 (Unlabeled)	0.00000007	Xn; R20/21/22 N; R50/53
5-METHOXY-2,2',4,4'-TETRABDE UNLABELED	(CAS-No.) 602326-19-2 (Unlabeled)	0.00000007	Xn; R20/21/22 N; R50/53
4'-METHOXY-2,2',4,5'-TETRABDE UNLABELED	(CAS-No.) 476430-88-3 (Unlabeled)	0.00000007	Xn; R20/21/22 Xi; R36/37/38
5'-METHOXY-2,2',4,4',5-PENTABDE UNLABELED	(CAS-No.) 923925-51-3 (Unlabeled)	0.00000007	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)	0.00000007	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	0.00000004	N; R50 Xi; R36/38 R67

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N-NONANE UNLABELED	(CAS-No.) 111-84-2 (EC-No.) 203-913-4	97.40197187	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	2.59755991	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)	0.00014583	Aquatic Acute 1, H400
PENTACHLOROANISOLE (13C6, 99%)	(CAS-No.) 1825-21-4 (Unlabeled)	0.00014513	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
2,4,5-TRIBROMOANISOLE (RING-13C6, 99%)	(CAS-No.) 95970-10-8 (Unlabeled)	0.00001444	Aquatic Chronic 4, H413
2,4,6-TRIBROMOANISOLE (RING-13C6, 99%)	(CAS-No.) 607-99-8 (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	0.00000073	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PENTACHLOROANISOLE UNLABELED	(CAS-No.) 1825-21-4 (Unlabeled)	0.00000073	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	0.00000007	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	0.00000007	Aquatic Chronic 4, H413
2,4,5-TRIBROMOANISOLE UNLABELED	(CAS-No.) 95970-10-8	0.00000007	Aquatic Chronic 4, H413
PENTABROMOANISOLE UNLABELED	(CAS-No.) 1825-26-9	0.00000007	Aquatic Chronic 4, H413

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2,4-DIBROMOANISOLE UNLABELED	(CAS-No.) 21702-84-1 (EC-No.) 244-536-5	0.00000007	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	0.00000007	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	0.00000007	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)	0.00000007	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	0.00000007	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)	0.00000007	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)	0.00000007	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Dermal), H312
4'-METHOXY-2,2',4,5'-TETRABDE UNLABELED	(CAS-No.) 476430-88-3 (Unlabeled)	0.00000007	Not classified
5'-METHOXY-2,2',4,4',5-PENTABDE UNLABELED	(CAS-No.) 923925-51-3 (Unlabeled)	0.00000007	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)	0.00000007	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	0.00000004	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	97.40197187	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	2.59755991	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%)	(CAS-No.) 4640-01-1 (Unlabeled)	0.00014583	Aquatic Acute 1, H400
PENTACHLOROANISOLE (13C6, 99%)	(CAS-No.) 1825-21-4 (Unlabeled)	0.00014513	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
2,4,5-TRIBROMOANISOLE (RING-13C6, 99%)	(CAS-No.) 95970-10-8 (Unlabeled)	0.00001444	Aquatic Chronic 4, H413
2,4,6-TRIBROMOANISOLE (RING-13C6, 99%)	(CAS-No.) 607-99-8 (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%)	(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. 2A, H319 STOT SE 3, H335

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Name	Product identifier	%	GHS-US classification
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	0.00000073	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PENTACHLOROANISOLE UNLABELED	(CAS-No.) 1825-21-4 (Unlabeled)	0.00000073	Aquatic Acute 1, H400
6-METHOXY-2,2',4,4'-TETRABDE UNLABELED	(CAS-No.) 102739-99-1	0.00000007	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	0.00000007	Aquatic Chronic 4, H413
2,4,5-TRIBROMOANISOLE UNLABELED	(CAS-No.) 95970-10-8	0.00000007	Aquatic Chronic 4, H413
PENTABROMOANISOLE UNLABELED	(CAS-No.) 1825-26-9	0.00000007	Aquatic Chronic 4, H413
2,4-DIBROMOANISOLE UNLABELED	(CAS-No.) 21702-84-1	0.00000007	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	0.00000007	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	0.00000007	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)	0.00000007	Not classified
4-METHOXY-2,2',3,4',5,5',6-HEPTACB UNLABELED	(CAS-No.) 169295-23-2	0.00000007	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)	0.00000007	Not classified
5-METHOXY-2,2',4,4'-TETRABDE UNLABELED	(CAS-No.) 602326-19-2 (Unlabeled)	0.00000007	Not classified
4'-METHOXY-2,2',4,5'-TETRABDE UNLABELED	(CAS-No.) 476430-88-3 (Unlabeled)	0.00000007	Not classified
5'-METHOXY-2,2',4,4',5-PENTABDE UNLABELED	(CAS-No.) 923925-51-3 (Unlabeled)	0.00000007	Not classified
6-METHOXY-2,2',4,4',5-PENTABDE UNLABELED	(CAS-No.) 497106-83-9 (Unlabeled)	0.00000007	Not classified
DIMETHYL TETRABROMOBISPHENOL A UNLABELED	(CAS-No.) 37853-61-5	0.00000004	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 measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor/physician if you feel unwell. Give oxygen or artificial respiration if necessary.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

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First-aid measures after ingestion : Do not induce vomiting. Call a physician immediately.

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 fatal if swallowed and enters airways. Risk of lung edema.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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 : Highly 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 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 (111-84-2)		
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	1050 mg/m ³ 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/m ³)	1050 mg/m ³ 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/m ³)	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 (108-88-3)		
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/m ³)	375 mg/m ³ USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TWA) (ppm)	100 ppm USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	560 mg/m ³ USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (ppm)	150 ppm USA. NIOSH Recommended Exposure Limits
USA OSHA	OSHA PEL (TWA) (mg/m ³)	375 mg/m ³ 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/m ³)	560 mg/m ³ 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

8.2. Exposure controls

Appropriate engineering controls

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

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

See storage and expiration date on CoA.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

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

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

ATE CLP (oral)	500.000 mg/kg body weight
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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/m ³ male - 4 h
----------------------------	------------------------------------

ATE CLP (vapors)	11.000 mg/l/4h
------------------	----------------

Skin corrosion/irritation, Dermal, rat	Result: Skin Irritation (Draize Test)
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Additional information	: S. Typhimurium Result: negative
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TOLUENE UNLABELED (108-88-3)

LD50 oral rat	> 5580 mg/kg
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LD50 dermal rabbit	12196 mg/kg
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LC50 inhalation rat (mg/l)	12,500 - 28,800 mg/m ³ - 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
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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
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ATE CLP (dermal)	1100.000 mg/kg body weight
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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 : Based on available data, the classification criteria are not met. 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 fatal if swallowed and enters airways. Risk of lung edema.

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
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EC50 Daphnia 1	7.9 mg/l Daphnia magna (Water flea) - 48 h
----------------	--

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PENTACHLOROANISOLE (13C6, 99%) (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
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

EXTENDED PHENOLIC CALIBRATION SOLUTION CS2 (UNLABELED/13C, 99%)	
Bioaccumulative potential	Not established.
METHYL TRICLOSAN (RING-13C12, 99%) (4640-01-1 (Unlabeled))	
Log Pow	5.269
METHYL TRICLOSAN UNLABELED (4640-01-1)	
Log Pow	5.269
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 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

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14.2. UN proper shipping name

Proper Shipping Name (DOT) : Nonanes
Class (DOT) : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120
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 : 

Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) : 5l
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

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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)

14.4. Environmental hazards

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

EXTENDED PHENOLIC CALIBRATION SOLUTION CS2 (UNLABELED/13C, 99%)

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
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SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
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2,4,5-TRIBROMOANISOLE (RING-13C6, 99%) (95970-10-8 (Unlabeled))

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
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SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
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6-METHOXY-2,2',4,4'-TETRABDE UNLABELED (102739-99-1)

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
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SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
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SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
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DIMETHYL TETRABROMOBISPHENOL A UNLABELED (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.
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SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
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METHYL TRICLOSAN (RING-13C12, 99%) (4640-01-1 (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
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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
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SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
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PENTACHLOROANISOLE (13C6, 99%) (1825-21-4 (Unlabeled))

SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
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SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313
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N-NONANE UNLABELED (111-84-2)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

EPA TSCA Regulatory Flag	T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.
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SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
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SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard
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SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
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TOLUENE UNLABELED (108-88-3)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

CERCLA RQ	1000 lb
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EXTENDED PHENOLIC CALIBRATION SOLUTION CS2 (UNLABELED/13C, 99%)

ES-5510-CS2

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

TOLUENE UNLABELED (108-88-3)	
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
6-METHOXY-2,2',4,4'-TETRABDE (RING-13C12, 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 (1825-21-4 (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
2,4,6-TRIBROMOANISOLE UNLABELED (607-99-8)	
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
2,4,5-TRIBROMOANISOLE UNLABELED (95970-10-8)	
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%) (1825-26-9 (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 (1825-26-9)	
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%) (21702-84-1 (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 (21702-84-1)	
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 (RING-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, 99%) (234432-92-9)	
Not listed on the United States TSCA (Toxic Substances Control Act) inventory	
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.

EXTENDED PHENOLIC CALIBRATION SOLUTION CS2 (UNLABELED/13C, 99%)

ES-5510-CS2

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

4-METHOXY-2,3,3',4',5-PENTACB UNLABELED (169295-14-1)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302.
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
4-METHOXY-2,3,3',4',5-PENTACB (13C12, 99%) (169295-14-1 (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.
4-METHOXY-2,2',3,4',5,5'-HEXACB UNLABELED (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, 99%) (169295-19-6 (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.
4-METHOXY-2,2',3,4'-TETRABDE UNLABELED (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 UNLABELED (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, 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 UNLABELED (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 UNLABELED (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 UNLABELED (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 UNLABELED (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 UNLABELED (497106-83-9 (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
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

EXTENDED PHENOLIC CALIBRATION SOLUTION CS2 (UNLABELED/13C, 99%)

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2,2',3,4,4',6-HEXABDE (BDE-139) (13C12, 99%) (488710-25-4)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporting requirements of the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313

15.2. International regulations

CANADA

EXTENDED PHENOLIC CALIBRATION SOLUTION CS2 (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 CALIBRATION SOLUTION CS2 (UNLABELED/13C, 99%)()	
U.S. - California - Proposition 65 - Carcinogens List	No
U.S. - California - Proposition 65 - Developmental Toxicity	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Female	No
U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No
State or local regulations	U.S. - Pennsylvania - RTK (Right to Know) List U.S. - New Jersey - Right to Know Hazardous Substance List

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'-TETRABDE UNLABELED (102739-99-1)				
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 TETRABROMOBIPHENOL A UNLABELED (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 (RING-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	

EXTENDED PHENOLIC CALIBRATION SOLUTION CS2 (UNLABELED/13C, 99%)

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METHYL TRICLOSAN UNLABELED (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	
PENTACHLOROANISOLE (13C6, 99%) (1825-21-4 (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	
N-NONANE UNLABELED (111-84-2)				
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)
No	No	No	No	
TOLUENE UNLABELED (108-88-3)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	Yes	No	No	
6-METHOXY-2,2',4,4'-TETRABDE (RING-13C12, 99%) (102739-99-1 (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	
PENTACHLOROANISOLE UNLABELED (1825-21-4 (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	
2,4,6-TRIBROMOANISOLE UNLABELED (607-99-8)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
2,4,5-TRIBROMOANISOLE UNLABELED (95970-10-8)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
No	No	No	No	
2,4,6-TRIBROMOANISOLE (RING-13C6, 99%) (607-99-8 (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	
PENTABROMOANISOLE (13C6, 99%) (1825-26-9 (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	

EXTENDED PHENOLIC CALIBRATION SOLUTION CS2 (UNLABELED/13C, 99%)

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PENTABROMOANISOLE (13C6, 99%) (1825-26-9 (Unlabeled))				
		Female	Male	
No	No	No	No	
PENTABROMOANISOLE UNLABELED (1825-26-9)				
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-DIBROMOANISOLE (RING-13C6, 99%) (21702-84-1 (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	
2,4-DIBROMOANISOLE UNLABELED (21702-84-1)				
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	
DIMETHYL TETRABROMOBISPHENOL A (RING-13C12, 99%) (37853-61-5 (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	
2,2',3,3',4,5,5',6,6'-NONACB (PCB-208) (13C12, 99%) (234432-92-9)				
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-2,3,3',4',5-PENTACB UNLABELED (169295-14-1)				
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)
Yes	Yes	Yes	Yes	
4-METHOXY-2,3,3',4',5-PENTACB (13C12, 99%) (169295-14-1 (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)
Yes	Yes	Yes	Yes	
4-METHOXY-2,2',3,4',5,5'-HEXACB UNLABELED (169295-19-6)				
U.S. - California - Proposition 65 - Carcinogens List	U.S. - California - Proposition 65 - Developmental Toxicity	U.S. - California - Proposition 65 - Reproductive Toxicity - Female	U.S. - California - Proposition 65 - Reproductive Toxicity - Male	No significant risk level (NSRL)
Yes	Yes	Yes	Yes	
4-METHOXY-2,2',3,4',5,5'-HEXACB (13C12, 99%) (169295-19-6 (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)

EXTENDED PHENOLIC CALIBRATION SOLUTION CS2 (UNLABELED/13C, 99%)

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4-METHOXY-2,2',3,4',5,5'-HEXACB (13C12, 99%) (169295-19-6 (Unlabeled))				
Yes	Yes	Yes	Yes	
4-METHOXY-2,2',3,4'-TETRABDE UNLABELED (602326-25-0 (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	
4-METHOXY-2,2',3,4',5,5',6-HEPTACB UNLABELED (169295-23-2)				
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%) (1629523-2 (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'-TETRABDE UNLABELED (602326-28-0 (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'-TETRABDE UNLABELED (602326-19-2 (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'-TETRABDE UNLABELED (476430-88-3 (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-PENTABDE UNLABELED (923925-51-3 (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-PENTABDE UNLABELED (497106-83-9 (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-PENTABDE (13C12, 99%) (1391119-70-2 (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	

EXTENDED PHENOLIC CALIBRATION SOLUTION CS2 (UNLABELED/13C, 99%)

ES-5510-CS2

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

EXTENDED PHENOLIC CALIBRATION SOLUTION CS2 (UNLABELED/13C, 99%)

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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
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 TETRABROMOBIPHENOL 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

EXTENDED PHENOLIC CALIBRATION SOLUTION CS2 (UNLABELED/13C, 99%)

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

EXTENDED PHENOLIC CALIBRATION SOLUTION CS2 (UNLABELED/13C, 99%)

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SECTION 16: Other information

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

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

Acute Tox. 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 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral) Category 4
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
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
H413	May cause long lasting harmful effects to aquatic life
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

EXTENDED PHENOLIC CALIBRATION SOLUTION CS2 (UNLABELED/13C, 99%)

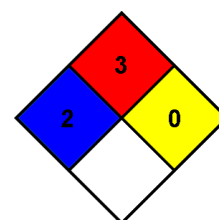
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R36/37/38	Irritating to eyes, respiratory system and skin
R36/38	Irritating to eyes and skin
R37	Irritating to respiratory system
R38	Irritating to skin
R40	Limited evidence of a carcinogenic effect
R41	Risk of serious damage to eyes
R45	May cause 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	Toxic to aquatic organisms
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
T	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