

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: 24/01/2018 Revision date: 11/05/2021 Supersedes: 24/01/2018 Version: 1.1

EDF-5005

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

1.1. Product identifier

Product form : Mixtures

Product name : US EPA METHOD 8290 SAMPLE FORTIFICATION SOLUTION (13C12, 99%)

Product code : EDF-5005

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. 3 H226
Acute Tox. 4 (Inhalation:vapour) H332
Skin Irrit. 2 H315
Eye Irrit. 2 H319
STOT SE 3 H336
Asp. Tox. 1 H304

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

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

R10 Xn; R20 Xn; R65 Xi; R36/38 R67

Full text of R-phrases: see section 16

GHS-US classification

Flam. Liq. 3 H226
Acute Tox. 4 (Inhalation:vapour) H332
Skin Irrit. 2 H315
Eye Irrit. 2A H319
STOT SE 3 H336
Asp. Tox. 1 H304
Full text of H statements : see section 16

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Adverse physicochemical, human health and environmental effects

Central Nervous System. Flammable liquid and vapor. May cause drowsiness or dizziness. Harmful if inhaled. Causes skin irritation. Causes serious eye irritation. May be fatal if swallowed and enters airways.

Label elements

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

Hazard pictograms (CLP)

Signal word (CLP)







GHS02

: Danger

Hazard statements (CLP)

: H226 - Flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

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 fume, mist, spray, vapors.

P264 - Wash hands, forearms and face thoroughly after handling.

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

P280 - Wear eye protection, face protection, protective clothing, protective gloves.

GHS-US labeling

Hazard pictograms (GHS-US)







GHS07

Signal word (GHS-US)

Hazard statements (GHS-US)

: Danger

H226 - Flammable liquid and vapor

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

Precautionary statements (GHS-US)

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

P233 - Keep container tightly closed.

P240 - Ground/Bond container and receiving equipment

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

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P261 - Avoid breathing fume, mist, spray, vapors. P264 - Wash hands, forearms and face thoroughly after handling.

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

P280 - Wear eye protection, face protection, protective clothing, protective gloves.

P301+P310 - If swallowed: Immediately call a doctor, a POISON CENTER

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

P312 - Call a doctor, a POISON CENTER if you feel unwell

P321 - Specific treatment (see Hazardous component(s) for labeling on this label)

P331 - Do NOT induce vomiting.

P332+P313 - If skin irritation occurs: Get medical advice/attention.

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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 alcohol resistant foam, carbon dioxide (CO2), dry extinguishing powder 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 hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

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	99.999737	R10 Xn; R20 Xn; R65 Xi; R36/38 R67
OCTACHLORODIBENZO-P-DIOXIN (13C12, 99%)	(CAS-No.) 114423-97-1	0.00007	T+; R28 Xi; R36 Carc.Cat.3; R40
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN (13C12, 99%)	(CAS-No.) 109719-83-7	0.000035	Xn; R22 Xn; R65 R53
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN (13C12, 99%)	(CAS-No.) 114423-98-2	0.000035	Xn; R22 Xi; R36 R53
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN (13C12, 99%)	(CAS-No.) 109719-84-8	0.000035	Xn; R22 Xi; R36 R53
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN (13C12, 99%)	(CAS-No.) 109719-81-5	0.000033	N; R51/53 T; R39/23/24/25
1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN (13C12, 99%)	(CAS-No.) 109719-79-1	0.000014	Xn; R22 Xn; R65 R53
1,2,3,7,8-PENTACHLORODIBENZOFURAN (13C12, 99%)	(CAS-No.) 109719-77-9	0.000014	Xn; R22 Xi; R36 R53
2,3,7,8-TETRACHLORODIBENZOFURAN (13C12, 99%)	(CAS-No.) 89059-46-1	0.000014	Xn; R22 Xi; R36 R53
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%)	(CAS-No.) 76523-40-5	0.000014	Xn; R65 R53 Xn; R20/22
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
N-NONANE UNLABELED	(CAS-No.) 111-84-2 (EC-No.) 203-913-4	99.999737	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
OCTACHLORODIBENZO-P-DIOXIN (13C12, 99%)	(CAS-No.) 114423-97-1	0.00007	Acute Tox. 2 (Oral), H300 Eye Irrit. 2, H319 Carc. 2, H351

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN (13C12, 99%)	(CAS-No.) 109719-83-7	0.000035	Acute Tox. 4 (Oral), H302 Asp. Tox. 1, H304 Aquatic Chronic 4, H413
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN (13C12, 99%)	(CAS-No.) 114423-98-2	0.000035	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Aquatic Chronic 4, H413
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN (13C12, 99%)	(CAS-No.) 109719-84-8	0.000035	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Aquatic Chronic 4, H413
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN (13C12, 99%)	(CAS-No.) 109719-81-5	0.000033	Eye Irrit. 2, H319 Aquatic Chronic 2, H411
1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN (13C12, 99%)	(CAS-No.) 109719-79-1	0.000014	Acute Tox. 4 (Oral), H302 Asp. Tox. 1, H304 Aquatic Chronic 4, H413
1,2,3,7,8-PENTACHLORODIBENZOFURAN (13C12, 99%)	(CAS-No.) 109719-77-9	0.000014	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Aquatic Chronic 4, H413
2,3,7,8-TETRACHLORODIBENZOFURAN (13C12, 99%)	(CAS-No.) 89059-46-1	0.000014	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Aquatic Chronic 4, H413
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%)	(CAS-No.) 76523-40-5	0.000014	Acute Tox. 4 (Oral), H302 Asp. Tox. 1, H304 Aquatic Chronic 4, H413

Name	Product identifier	%	GHS-US classification
N-NONANE UNLABELED	(CAS-No.) 111-84-2	99.999737	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
OCTACHLORODIBENZO-P-DIOXIN (13C12, 99%)	(CAS-No.) 114423-97-1	0.00007	Acute Tox. 4 (Oral), H302 Asp. Tox. 1, H304 Aquatic Chronic 4, H413
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIOXIN (13C12, 99%)	(CAS-No.) 109719-83-7	0.000035	Acute Tox. 4 (Oral), H302 Asp. Tox. 1, H304 Aquatic Chronic 4, H413
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN (13C12, 99%)	(CAS-No.) 114423-98-2	0.000035	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 Aquatic Chronic 4, H413
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN (13C12, 99%)	(CAS-No.) 109719-84-8	0.000035	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 Aquatic Chronic 4, H413
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN (13C12, 99%)	(CAS-No.) 109719-81-5	0.000033	Eye Irrit. 2A, H319 Aquatic Chronic 2, H411
1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN (13C12, 99%)	(CAS-No.) 109719-79-1	0.000014	Acute Tox. 4 (Oral), H302 Asp. Tox. 1, H304 Aquatic Chronic 4, H413
1,2,3,7,8-PENTACHLORODIBENZOFURAN (13C12, 99%)	(CAS-No.) 109719-77-9	0.000014	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 Aquatic Chronic 4, H413
2,3,7,8-TETRACHLORODIBENZOFURAN (13C12, 99%)	(CAS-No.) 89059-46-1	0.000014	Acute Tox. 4 (Oral), H302 Eye Irrit. 2A, H319 Aquatic Chronic 4, H413
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%)	(CAS-No.) 76523-40-5	0.000014	Acute Tox. 4 (Oral), H302 Asp. Tox. 1, H304 Aquatic Chronic 4, H413

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

SECTION 4: First aid measures

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

Most important symptoms and effects, both acute and delayed

Symptoms/effects : May cause drowsiness or dizziness.

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

Symptoms/effects after skin contact : Causes skin irritation. May be harmful in contact with skin.

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.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

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

Special hazards arising from the substance or mixture

Fire hazard : Flammable liquid and vapor.

Reactivity : Flammable liquid and vapor. Vapors may form flammable mixture with air.

Advice for firefighters

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

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

apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Wear personal protective equipment. Ventilate spillage area. No open flames, no sparks, and

no smoking. Avoid breathing fume, gas, mist, spray, vapors. Avoid contact with skin and eyes.

6.1.2. For emergency responders

Protective equipment Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

Methods and material for containment and cleaning up

: Dike and contain spill. Dispose as hazardous waste. Comply with local regulations for disposal. For containment

Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public Methods for cleaning up

Other information Dispose of materials or solid residues at an authorized site.

Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

Precautions for safe handling

Avoid all contact with skin, eyes, or clothing. Keep away from sources of ignition - No smoking. Additional hazards when processed

Do not breathe gas/fumes/vapor/spray (appropriate wording to be specified by the

manufacturer). Take precautionary measures against static discharges.

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No Precautions for safe handling

smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapors may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing fume, gas, mist, spray, vapors. Avoid

contact with skin and eves.

Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Hygiene measures

Always wash hands after handling the product.

Conditions for safe storage, including any incompatibilities

: Store in a well-ventilated place. Keep container tightly closed. Keep dry. Ground/bond container Technical measures

and receiving equipment.

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

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

o. i. Control parameters			
US EPA METHOD 8290 SAMPLE FORTIFICATION SOLUTION (13C12, 99%)			
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.00000000 ppm USA. ACGIH Threshold Limit Values (TLV)	
Italy - Portugal - USA ACGIH	Remark (ACGIH)	CNS impair	
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.	
N-NONANE UNLABELED (11	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	
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	

8.2. Exposure controls

Appropriate engineering controls Personal protective equipment : Ensure good ventilation of the work station.

: Protective clothing. Protective goggles. Gloves. Self-contained breathing apparatus.









Contaminants - 1910.1000

Contaminants - 1910.1000

chemical contaminants.

chemical contaminants.

1050 mg/m³ USA. OSHA - Table Z-1 Limits for Air

200 ppm USA. OSHA - Table Z-1 Limits for Air

1050 California permissible exposure limits for

200 ppm California permissible exposure limits for

Materials for protective clothing

: Wear suitable protective clothing and gloves.

Hand protection Eye protection

USA OSHA

USA OSHA

USA OSHA

USA OSHA

protective gloves.

Skin and body protection Respiratory protection : Chemical goggles or face shield. Chemical goggles or safety glasses.

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

OSHA PEL (TWA) (mg/m3)

OSHA PEL (TWA) (ppm)

OSHA PEL (Ceiling) (mg/m³)

OSHA PEL (Ceiling) (ppm)

: Where exposure through inhalation may occur from use, respiratory protection equipment is

recommended. Approved respirator.

Environmental exposure controls

: Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

The properties listed below are for the solvent, the main component of this mixture.

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: Liquid Physical state Appearance : Liquid Molecular mass : 128.3 g/mol Color Colorless Odor No data available

Odor threshold No data available pΗ : No data available : No data available Relative evaporation rate (butyl acetate=1) Melting point : Not applicable : -53 °C (- 63 °F) - lit Freezing point Boiling point : 151 °C (304 °F) - lit : 31 °C (87.8 °F) - closed cup Flash point

: 205 °C (401 °F) Auto-ignition temperature Decomposition temperature : No data available Flammability (solid, gas) : Not applicable

: 5.69 hPa (4.27 mmHg) at 25 °C (77 °F) Vapor pressure

Relative vapor density at 20 °C : No data available Relative density : No data available

Specific gravity / density : 0.718 g/ml at 25 °C (77 °F)

Solubility : Water: 0.0002 % at 25 °C (77 °F) - slightly soluble

Log Pow : 5.65

Log Kow : No data available

Viscosity, kinematic : 1.008 mm²/s at 20 °C (68 °F)

: No data available Viscosity, dynamic Explosive properties : No data available : No data available Oxidizing properties **Explosion limits** : 0.87 - 2.9 % (V)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

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

Chemical stability

See storage and expiration date on CoA.

Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

Incompatible materials 10.5

No additional information available

Hazardous decomposition products

Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

Information on toxicological effects 11.1.

Acute toxicity : Inhalation:vapour: Harmful if inhaled.

US EPA METHOD 8290 SAMPLE FORTIFICATION SOLUTION (13C12, 99%)	
LC50 inhalation rat (mg/l)	23760 mg/m³ male - 4 h
ATE CLP (gases)	3200.000 ppmV/4h
ATE CLP (vapors)	11.000 mg/l/4h
ATE CLP (dust, mist)	23.760 mg/l/4h
Skin corrosion/irritation, Dermal, rat	Result: Skin Irritation (Draize Test)
Additional information	: S. Typhimurium Result: negative

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-,	
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
1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	(13C12, 99%) (109719-79-1)
ATE CLP (oral)	500.000 mg/kg body weight
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIO	XIN (13C12, 99%) (109719-83-7)
ATE CLP (oral)	500.000 mg/kg body weight
OCTACHLORODIBENZO-P-DIOXIN (13C12, 9	9%) (114423-97-1)
ATE CLP (oral)	5.000 mg/kg body weight
1,2,3,7,8-PENTACHLORODIBENZOFURAN (1	3C12, 99%) (109719-77-9)
ATE CLP (oral)	500.000 mg/kg body weight
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN (1	3C12, 99%) (114423-98-2)
ATE CLP (oral)	500.000 mg/kg body weight
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN	N (13C12, 99%) (109719-84-8)
ATE CLP (oral)	500.000 mg/kg body weight
2,3,7,8-TETRACHLORODIBENZOFURAN (130	C12, 99%) (89059-46-1)
ATE CLP (oral)	500.000 mg/kg body weight
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (1	3C12, 99%) (76523-40-5)
ATE CLP (oral)	500.000 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	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: May cause drowsiness or dizziness.
	May cause drowsiness or dizziness
Specific target organ toxicity – repeated exposure	: Not classified

US EPA METHOD 8290 SAMPLE FORTIFICATION SOLUTION (13C12, 99%)	
NOAEL (oral,rat,90 days)	100 mg/kg bodyweight/day female (OECD Test Guildeline 408)
Aspiration hazard	: May be fatal if swallowed and enters airways.
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	: Harmful if inhaled. May cause respiratory irritation.
Symptoms/effects after skin contact	: Causes skin irritation. May be harmful in contact with skin.
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 : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

US EPA METHOD 8290 SAMPLE FORTIFICATION SOLUTION (13C12, 99%)	
EC50 Daphnia 1	0.2 mg/l static test EC50 - Daphnia magna (Water flea) - 48 h

12.2. Persistence and degradability

No additional information available

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12.3. **Bioaccumulative potential**

US EPA METHOD 8290 SAMPLE FORTIFICATION SOLUTION (13C12, 99%)	
Log Pow	5.65
Bioaccumulative potential	Indication of bioaccumulation.
N-NONANE UNLABELED (111-84-2)	
N-NONANE UNLABELED (111-84-2)	
N-NONANE UNLABELED (111-84-2) Log Pow	5.65

Mobility in soil

No additional information available

Results of PBT and vPvB assessment

No additional information available

Other adverse effects

Other adverse effects

: Disposal must be done according to official regulations. Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations

Waste treatment methods

Regional legislation (waste)

: Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.

Product/Packaging disposal recommendations

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed

professional waste disposal service to dispose of this material.

Ecology - waste materials : Dispose of as unused product.

SECTION 14: Transport information

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

UN number

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

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

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Additional information

Emergency Response Guide (ERG) Number : 128

Other information : No supplementary information available.

Overland transport

Packing group (ADR) : 111

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) 51 **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)

Civil Aeronautics Law : Flammable liquids

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

US EPA METHOD 8290 SAMPLE FORTIFICATION SOLUTION (13C12, 99%)		
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.	
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.	

	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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N-NONANE UNLABELED (111-84-2)				
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.			
1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN	1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN (13C12, 99%) (109719-79-1)			
Not listed on the United States TSCA (Toxic Substances Control Act) inventory				
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			
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-P-DIO	XIN (13C12, 99%) (109719-83-7)			
Not listed on the United States TSCA (Toxic Sub	ostances Control Act) inventory			
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			
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN	I (13C12, 99%) (109719-81-5)			
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 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313			
OCTACHLORODIBENZO-P-DIOXIN (13C12, 99%) (114423-97-1)				
Not listed on the United States TSCA (Toxic Sub	ostances Control Act) inventory			
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			
1,2,3,7,8-PENTACHLORODIBENZOFURAN (1	3C12, 99%) (109719-77-9)			
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			
1,2,3,4,7,8-HEXACHLORODIBENZOFURAN (1	3C12, 99%) (114423-98-2)			
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			
1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURA	N (13C12, 99%) (109719-84-8)			
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			
2,3,7,8-TETRACHLORODIBENZOFURAN (130	C12, 99%) (89059-46-1)			
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			
2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (I3C12, 99%) (76523-40-5)			
Not listed on the United States TSCA (Toxic Sul	ostances 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.			
15.2. International regulations				
CANADA				

CANADA

Listed on the Canadian DSL (Domestic Substances List)

N-NONANE UNLABELED (111-84-2)

Listed on the Canadian DSL (Domestic Substances List)

2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%) (76523-40-5)

Not listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

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15.3. US State regula	ations
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U.S California - Proposition 65 - Carcinog U.S California - Proposition 65 - Develop Toxicity U.S California - Proposition 65 - Reprodu Toxicity - Female U.S California - Proposition 65 - Reprodu Toxicity - Male State or local regulations	gens List No mental No	99%) ()			
U.S California - Proposition 65 - Develop Toxicity U.S California - Proposition 65 - Reprodu Toxicity - Female U.S California - Proposition 65 - Reprodu Toxicity - Male	mental No				
Toxicity U.S California - Proposition 65 - Reprodu Toxicity - Female U.S California - Proposition 65 - Reprodu Toxicity - Male					
Toxicity - Female U.S California - Proposition 65 - Reprodu Toxicity - Male		No			
Toxicity - Male	ctive No	No			
State or local regulations	ctive No				
	U.S New Jerse U.S Massachus U.S Pennsylva	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			
N-NONANE UNLABELED (111-84-2)	·				
U.S California - Proposition 65 - Carcinogens List U.S Califo Proposition of Development	65 - Proposition 65	- Proposition 65 -	No significant risk level (NSRL)		
No No	No	No			
1,2,3,7,8-PENTACHLORODIBENZO-P-DI	OXIN (13C12, 99%) (109719-79	-1)			
U.S California - Proposition 65 - Carcinogens List U.S Califo Proposition Developmer	rnia - U.S Californ 65 - Proposition 65	ia - U.S California - Proposition 65 -	No significant risk level (NSRL)		
Yes No	Yes	Yes			
1,2,3,4,6,7,8-HEPTACHLORODIBENZO-F	-DIOXIN (13C12 00%) (100710)_83_7)			
U.S California - U.S Califo			No significant risk level		
Proposition 65 - Carcinogens List Proposition 0 Developmen	65 - Proposition 65	- Proposition 65 -	(NSRL)		
Yes No	Yes	Yes			
1,2,3,6,7,8-HEXACHLORODIBENZO-P-DI	OXIN (13C12, 99%) (109719-81	-5)			
U.S California - Proposition 65 - Carcinogens List U.S Califo Proposition Developmen	rnia - U.S Californ 65 - Proposition 65	ia - U.S California - Proposition 65 -	No significant risk level (NSRL)		
Yes No	No	No			
OCTACHLORODIBENZO-P-DIOXIN (13C	12, 99%) (114423-97-1)		-		
U.S California - Proposition 65 - Carcinogens List U.S Califo Proposition (Developmen	rnia - U.S Californ 65 - Proposition 65 Reproductive Female	Proposition 65 - Reproductive Toxic Male	No significant risk level (NSRL)		
Yes No	Yes	Yes			
1,2,3,7,8-PENTACHLORODIBENZOFUR					
U.S California - Proposition 65 - Carcinogens List U.S Califo Proposition Developmen	65 - Proposition 65	Proposition 65 -	No significant risk level (NSRL)		
Yes No	No	No			
1,2,3,4,7,8-HEXACHLORODIBENZOFUR	AN (13C12, 99%) (114423-98-2				
U.S California - Proposition 65 - Carcinogens List U.S Califo Proposition Developmen	rnia - U.S Californ 65 - Proposition 65 tal Toxicity Reproductive Female	ia - U.S California - Proposition 65 - Reproductive Toxio Male	No significant risk level (NSRL)		
Yes No	No	No			

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1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN (13C12, 99%) (109719-84-8)				
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)
Yes	No	No	No	
2.2.7.9 TETDACHI ODODIDENIZOELIDAN (42C42, 00%) (900E0, 46.4)				

2,3,7,8-TETRACHLORODIBENZOFURAN (13C12, 99%) (89059-46-1)

=,0,1,0 1=1111011=11=11=11=11 0111111 (1001=,0010) (10000 10 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	
Yes	No	No	No	

2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%) (76523-40-5)

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)
Yes	Yes	Yes	Yes	

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

1,2,3,7,8-PENTACHLORODIBENZO-P-DIOXIN (13C12, 99%) (109719-79-1)

State or local regulations

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

1,2,3,6,7,8-HEXACHLORODIBENZO-P-DIOXIN (13C12, 99%) (109719-81-5)

State or local regulations

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

OCTACHLORODIBENZO-P-DIOXIN (13C12, 99%) (114423-97-1)

State or local regulations

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

1,2,3,7,8-PENTACHLORODIBENZOFURAN (13C12, 99%) (109719-77-9)

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

1,2,3,4,7,8-HEXACHLORODIBENZOFURAN (13C12, 99%) (114423-98-2)

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

1,2,3,4,6,7,8-HEPTACHLORODIBENZOFURAN (13C12, 99%) (109719-84-8)

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

2,3,7,8-TETRACHLORODIBENZOFURAN (13C12, 99%) (89059-46-1)

State or local regulations

U.S. - Massachusetts - Right To Know List

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2,3,7,8-TETRACHLORODIBENZOFURAN (13C12, 99%) (89059-46-1)

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

2,3,7,8-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%) (76523-40-5)

State or local regulations

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

SECTION 16: Other information

Other information

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

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

Acute toxicity (oral) Category 2			
Acute toxicity (inhalation:vapour) Category 4			
Acute toxicity (oral) Category 4			
Hazardous to the aquatic environment - Chronic Hazard Category 2			
Hazardous to the aquatic environment - Chronic Hazard Category 4			
Aspiration hazard Category 1			
Carcinogenicity Category 2			
Serious eye damage/eye irritation Category 2			
Flammable liquids Category 3			
Skin corrosion/irritation Category 2			
Specific target organ toxicity (single exposure) Category 3			
Flammable liquid and vapor			
Fatal if swallowed			
Harmful if swallowed			
May be fatal if swallowed and enters airways			
Causes skin irritation			
Causes serious eye irritation			
Harmful if inhaled			
May cause drowsiness or dizziness			
Suspected of causing cancer			
Toxic to aquatic life with long lasting effects			
May cause long lasting harmful effects to aquatic life			
Flammable			
Harmful by inhalation			
Harmful by inhalation and if swallowed			
Harmful if swallowed			
Very toxic if swallowed			
Irritating to eyes			
Irritating to eyes and skin			
Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed			
Limited evidence of a carcinogenic effect			
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment			
May cause long-term adverse effects in the aquatic environment			
Harmful: may cause lung damage if swallowed			
Vapors may cause drowsiness and dizziness			
Dangerous for the environment			
Toxic			
Very toxic			
Irritant			
Harmful			

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NFPA health hazard

: 2 - Materials that, under emergency conditions, can cause

temporary incapacitation or residual injury.

NFPA fire hazard

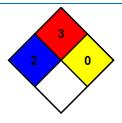
3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient

temperature conditions.

NFPA reactivity

0 - Material that in themselves are normally stable, even

under fire conditions.



Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 3 Serious Hazard Physical : 0 Minimal Hazard

CIL Mixture SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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