

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: 31/01/2018 Revision date: 29/06/2018 Supersedes: 31/01/2018 Version: 1.1

ED-5004

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 RECOVERY STANDARD SOLUTION (13C12, 99%) IN NONANE

Product code : ED-5004

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

1.2.1. Relevant identified uses

Main use category : Professional use

Industrial/Professional use spec : For professional use only

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Cambridge Isotope Laboratories, Inc.

50 Frontage Road Andover, MA 01810

USA

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

Emergency telephone number

Emergency numbers:

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Flam. Liq. 2 H225 Acute Tox. 4 (Inhalation) H332 Skin Irrit. 2 H315 Eye Irrit. 2 H319 Repr. 2 H361 STOT SE 3 H336 STOT RE 2 H373 Asp. Tox. 1 H304 Aquatic Acute 1 H400

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

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

F; R11 Xn; R20 Xi; R36/38 N; R50 R67 Xn; R65

Full text of R-phrases: see section 16

GHS-US classification

Flam. Liq. 2	H225
Acute Tox. 4 (Inhalation)	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Repr. 2	H361
STOT SE 3	H336
STOT RE 2	H373

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Asp. Tox. 1 H304 Aquatic Acute 1 H400

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

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

2.2. Label elements

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

Hazard pictograms (CLP)









Signal word (CLP) : Danger

Hazardous ingredients : N-NONANE UNLABELED

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

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

H361 - Suspected of damaging fertility. Suspected of damaging the unborn child. (if inhaled, if

swallowed, in contact with skin)

H373 - May cause damage to organs (brain, kidneys, liver, urinary bladder) through prolonged

or repeated exposure (if inhaled, if swallowed, in contact with skin)

H400 - Very toxic to aquatic life

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 P260 - Do not breathe dust, fume, gas, mist, spray, vapors. P264 - Wash hands, forearms and face thoroughly after handling.

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

P273 - Avoid release to the environment.

GHS-US labeling

Hazard pictograms (GHS-US)









Signal word (GHS-US) : Danger

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

H304 - May be fatal if swallowed and enters airways

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

H361 - Suspected of damaging fertility, Suspected of damaging the unborn child. (Dermal,

Inhalation, oral)

H373 - May cause damage to organs (brain, kidneys, liver, urinary bladder) through prolonged or repeated exposure (Dermal, Inhalation, oral)

H400 - Very 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

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P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P260 - Do not breathe dust, fume, gas, mist, spray, vapors.

P261 - Avoid breathing dust, fume, gas, mist, spray, vapors.

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

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

P273 - Avoid release to the environment.

P280 - Wear protective gloves, protective clothing.

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

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

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

P314 - Get medical advice/attention 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.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P362+P364 - Take off contaminated clothing and wash it before reuse.

P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry extinguishing powder to extinguish.

P391 - Collect spillage.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P403+P235 - Store in a well-ventilated place. Keep cool.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

2.3. Other hazards

PBT: not relevant - no registration required

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	99.89589	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	0.104061	F; R11 Xi; R38 Xn; R65 Repr.Cat.3; R62 Repr.Cat.3; R63 R67 N; R51/53 Xn; R48/20
1,2,3,7,8,9-HexaCDD (13C12, 99%)	(CAS-No.) 109719-82-6	0.000035	Xn; R20/21/22 Carc.Cat.1; R45
1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%)	(CAS-No.) 114423-99-3	0.000014	T+; R26/27/28 Carc.Cat.1; R45
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	99.89589	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

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
TOLUENE UNLABELED	(CAS-No.) 108-88-3 (EC-No.) 203-625-9 (EC Index-No.) 601-021-00-3 (REACH-no) 01-2119471310-51	0.104061	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361 STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304
1,2,3,7,8,9-HexaCDD (13C12, 99%)	(CAS-No.) 109719-82-6	0.000035	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Carc. 1A, H350
1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%)	(CAS-No.) 114423-99-3	0.000014	Acute Tox. 2 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 2 (Inhalation:dust,mist), H330 Carc. 1A, H350

Name	Product identifier	%	GHS-US classification
N-NONANE UNLABELED	(CAS-No.) 111-84-2	99.89589	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
TOLUENE UNLABELED	(CAS-No.) 108-88-3	0.104061	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
1,2,3,7,8,9-HexaCDD (13C12, 99%)	(CAS-No.) 109719-82-6	0.000035	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Carc. 1A, H350
1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%)	(CAS-No.) 114423-99-3	0.000014	Acute Tox. 1 (Oral), H300 Acute Tox. 1 (Dermal), H310 Acute Tox. 1 (Inhalation), H330 Carc. 1A, H350

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

SECTION 4: First aid measures

4.1. Descri	ption of first	aid measures
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First-aid measures general : Call a physician immediately.

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

POISON CENTER or doctor/physician if you feel unwell.

First-aid measures after skin contact : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Wash

with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Wash with plenty of soap and water, Get immediate medical advice/attention. Get medical advice/attention. Specific treatment (see Hazard pictograms (CLP) on this label).

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.

First-aid measures after ingestion : Immediately call a poison center or doctor/physician.

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

Symptoms/effects after inhalation : Harmful if inhaled. May be fatal if inhaled. May cause drowsiness or dizziness.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

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

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5.2. Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

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

Reactivity : Highly flammable liquid and vapour. May form flammable/explosive vapor-air mixture.

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

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

smoking

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".

6.2. Environmental precautions

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

6.3. Methods and material for containment and cleaning up

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

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

waters.

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

6.4. Reference to other sections

For further information refer to section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.

Precautions for safe handling : No open flames. No smoking. Use only non-sparking tools. Avoid breathing vapors, spray, mist,

gas, fume, dust. Use only outdoors or in a well-ventilated area.

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

Always wash hands after handling the product. Handle in accordance with good industrial

hygiene and safety practice.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Proper grounding procedures to avoid static electricity should be followed. Ground/bond

container and receiving equipment. Use explosion-proof Lighting equipment, ventilating

eauipment.

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

Incompatible materials : Heat sources.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

US EPA METHOD 8290 RECOVERY STANDARD SOLUTION (13C12, 99%) IN NONANE		
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

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US EPA METHOD 8290 REC	OVERY STANDARD SOLUTION (13C12, 9	9%) IN NONANE
USA NIOSH	NIOSH REL (STEL) (mg/m³)	560 mg/m³ USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (ppm)	150 ppm USA. NIOSH Recommended Exposure Limits
USA 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 (STEL) (mg/m³)	560 mg/m³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (STEL) (ppm)	150 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (Ceiling) (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.
USA OSHA	Remark (OSHA)	OSHA PEL (TWA) - 200 ppm - USA. Occupational Exposure Limits (OSHA) - Table Z-2. Remarks: Z37.12-1967
N-NONANE UNLABELED (11	11-84-2)	
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
USA OSHA	OSHA PEL (TWA) (mg/m³)	1050 mg/m³ USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
USA OSHA	OSHA PEL (Ceiling) (mg/m³)	1050 California permissible exposure limits for chemical contaminants.
USA OSHA	OSHA PEL (Ceiling) (ppm)	200 ppm California permissible exposure limits for chemical contaminants.
TOLUENE UNLABELED (108	3-88-3)	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	20.00000000 ppm USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Visual impairment. Female reproductive. Pregnancy loss. 2015 Adoption. Substances for which there is a Biological Exposure Index or Indices (see BEI® section). Not classifiable as a human carcinogen.; Component: Toluene CAS-No.: 108-88-3 Parameters: Toluene Value: 0.0300 mg/l Biological specimen: Urine Remarks: End of shift (As soon as possible after exposure ceases) Basis: ACGIH - Biological Exposure Indices (BEI); Component: Toluene CAS-No.: 108-88-3 Parameters: Toluene Value: 0.0200 mg/l Biological specimen: In blood Remarks: Prior to last shift of workweek Basis: ACGIH - Biological Exposure Indices (BEI); Component: Toluene CAS-No.: 108-88-3 Parameters: o-Cresol Value: 0.3000 mg/g Biological specimen: Urine Remarks: End of shift (As soon as possible after exposure ceases) Basis: ACGIH - Biological Exposure Indices (BEI)
USA NIOSH	NIOSH REL (TWA) (mg/m³)	375 mg/m³ USA. NIOSH Recommended Exposure Limits

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TOLUENE UNLABELED (108-88-3)		
USA NIOSH	NIOSH REL (TWA) (ppm)	100 ppm USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (mg/m³)	560 mg/m³ USA. NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (ppm)	150 ppm USA. NIOSH Recommended Exposure Limits
USA OSHA	OSHA PEL (TWA) (mg/m³)	375 mg/m³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (TWA) (ppm)	100 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (STEL) (mg/m³)	560 mg/m³ USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (STEL) (ppm)	150 ppm USA. OSHA - TABLE Z-1 Limits for Air Contaminants 1910.1000
USA OSHA	OSHA PEL (Ceiling) (ppm)	300 ppm USA. Occupational Exposure Limits (OSHA) - Table Z-2
USA OSHA	Remark (OSHA)	OSHA PEL (TWA) - 200 ppm - USA. Occupational Exposure Limits (OSHA) - Table Z-2. Remarks: Z37.12-1967

8.2. Exposure controls

Physical state

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

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









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

: Liquid

Hand protection : protective gloves.

Eye protection : Chemical goggles or face shield. Chemical goggles or safety glasses.

Skin and body protection : Wear suitable protective clothing.

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

recommended. Wear respiratory protection.

Environmental exposure controls : Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Color : No data available
Odor : No data available
Odor threshold : No data available

No data available : No data available Relative evaporation rate (butyl acetate=1) Melting point Not applicable Freezing point : No data available **Boiling point** : No data available : No data available Flash point Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) : No data available : No data available Vapor pressure Relative vapor density at 20 °C No data available Relative density : No data available Solubility : No data available Log Pow : No data available

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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

Highly flammable liquid and vapour. May form flammable/explosive vapor-air mixture.

10.2. Chemical stability

See storage and expiration date on CoA.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Open flame. Direct sunlight. Heat. Sparks.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO2).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Inhalation: Harmful if inhaled.

US EPA METHOD 8290 RECOVERY STANDARD SOLUTION (13C12, 99%) IN NONANE	
US EPA METHOD 8290 RECOVERY STA	NDARD SOLUTION (13C12, 99%) IN NONANE
LD50 oral rat	> 5580 mg/kg
LD50 dermal rabbit	12196 mg/kg
LC50 inhalation rat (mg/l)	23760 mg/m³ male - 4 h
ATE CLP (dermal)	12196.000 mg/kg body weight
ATE CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	11.000 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h
Skin corrosion/irritation, Dermal, rat	Result: Skin Irritation (Draize Test)
Additional information	: S. Typhimurium Result: negative

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
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

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

1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%) (114423-99-3 (Unlabeled))	
ATE CLP (oral)	5.000 mg/kg body weight
ATE CLP (dermal)	5.000 mg/kg body weight
ATF CLP (dust, mist)	0.050 mg/l/4h

1,2,3,7,8,9-HexaCDD (13C12, 99%) (109719-82-6)	
ATE CLP (oral)	500.000 mg/kg body weight

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1,2,3,7,8,9-HexaCDD (13C12, 99%) (109719-82-6)		
ATE CLP (dermal)	1100.000 mg/kg body weight	
ATE CLP (dust, mist)	1.500 mg/l/4h	
Skin corrosion/irritation	: Causes skin irritation.	
	Skin Rabbit Causes skin irritation 24 Hours	
Serious eye damage/irritation	: Causes serious eye irritation.	
	Eyes Rabbit No eye irritation (OECD 405 method)	
Respiratory or skin sensitization	: Not available	
Germ cell mutagenicity	: Rat. Liver. DNA Damage	
Carcinogenicity	: Not classified	
Reproductive toxicity	Damage to fetus possible. Suspected human reproductive toxicant Reproductive toxicity - Rat - Inhalation. Paternal Effects: Spermatogenesis (including genetic material, sperm morphology, motility, and count) Experiments have shown reproductive toxicity effects in male and female laboratory animals Developmental Toxicity - Rat - Oral. Effects on Embryo or Fetus: Fetotoxicity (except death, e.g, stunted fetus).	
Specific target organ toxicity – single exposure	: May cause drowsiness or dizziness.	
Specific target organ toxicity – repeated exposure	 May cause damage to organs (brain, kidneys, liver, urinary bladder) through prolonged or repeated exposure (if inhaled, if swallowed, in contact with skin). No data available 	

US EPA METHOD 8290 RECOVERY STANDARD SOLUTION (13C12, 99%) IN NONANE				
NOAEL (oral,rat,90 days)	100 mg/kg bodyweight/day female (OECD Test Guildeline 408)			
N-NONANE UNLABELED (111-84-2)				
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.			
IARC group	: 3			
Symptoms/effects after inhalation	: Harmful if inhaled. May be fatal if inhaled. May cause drowsiness or dizziness.			
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 bees.		
Ecology - water	Very toxic to aquatic life.		
US EPA METHOD 8290 RECOVERY STANDAR	RD SOLUTION (13C12, 99%) IN NONANE		
EC50 Daphnia 1	0.2 mg/l static test EC50 - Daphnia magna (Water flea) - 48 h		
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		
N-NONANE UNLABELED (111-84-2)			
EC50 Daphnia 1	0.2 mg/l static test EC50 - 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		

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TOLUENE UNLABELED (108-88-3)	
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

Persistence and degradability

US EPA METHOD 8290 RECOVERY STANDARD SOLUTION (13C12, 99%) IN NONANE		
Persistence and degradability Readily biodegradable.		
TOLUENE UNLABELED (108-88-3)		
Persistence and degradability	Readily biodegradable.	

12.3. Bioaccumulative potential			
US EPA METHOD 8290 RECOVERY STANDARD SOLUTION (13C12, 99%) IN NONANE			
BCF fish 1	0.05 mg/l Leuciscus idus (Golden orfe) - 3 d		
Bioconcentration factor (BCF REACH)	90		
Bioaccumulative potential	Indication of bioaccumulation.		
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

No additional information available

Results of PBT and vPvB assessment

US EPA METHOD 8290 RECOVERY STANDARD SOLUTION (13C12, 99%) IN NONANE

PBT: not relevant - no registration required

TOLUENE UNLABELED (108-88-3)

PBT: not relevant - no registration required

Other adverse effects

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

lasting effects.

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

Waste treatment methods

: Waste materials should be disposed of under conditions which meet Federal, State, and local Regional legislation (waste)

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.

Additional information : Handle empty containers with care because residual vapors are flammable.

Ecology - waste materials : Dispose of as unused product.

SECTION 14: Transport information

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

14.1. **UN** number

UN-No.(DOT) : 1993 DOT NA no. UN1993

UN proper shipping name

Proper Shipping Name (DOT) : Flammable liquids, n.o.s.

DOT Symbols : G - Identifies PSN requiring a technical name

Packing group (DOT) : II - Medium Danger

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DOT Special Provisions (49 CFR 172.102)

: IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(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. TP8 - A portable tank having a minimum test pressure of 1.5 bar (150 kPa) may be used when the flash point of the hazardous material transported is greater than 0 C (32 F).

TP28 - A portable tank having a minimum test pressure of 2.65 bar (265 kPa) may be used provided the calculated test pressure is 2.65 bar or less based on the MAWP of the hazardous material, as defined in 178.275 of this subchapter, where the test pressure is 1.5 times the

MAWP.

DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 242

14.3. Additional information

Emergency Response Guide (ERG) Number : 128

Other information : No supplementary information available.

Overland transport

No additional information available

Transport by sea

DOT Vessel Stowage Location

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel carrying a number of passengers limited to not more than the larger of 25 passengers, or one passenger per each 3 m of overall vessel length; and (ii) "On deck only" on passenger vessels in which the number of passengers specified in paragraph (k)(2)(i) of this section is exceeded.

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 5 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

14.4. Environmental hazards

Dangerous for the environment



Other information : No supplementary information available.

14.5. Special precautions for user

14.6. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

US EPA METHOD 8290 RECOVERY STANDARD SOLUTION (13C12, 99%) IN NONANE			
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 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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Not subject to reporting requirements of the United States SARA Section 302. SARA Section 311/312 Hazard Classes Fire hazard Immediate (acute) health hazard SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313. TOLUENE UNLABELED (108-88-3) Listed on the United States TSCA (Toxic Substances Control Act) inventory CERCLA RQ 1000 Ib SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 311/312 Hazard Classes Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard Delayed					
Quantity (TPQ) SARA Section 311/312 Hazard Classes Fire hazard Immediate (acute) health hazard SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313. TOLUENE UNLABELED (108-88-3) Listed on the United States TSCA (Toxic Substances Control Act) inventory CERCLA RQ 1000 Ib SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 3011/312 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 1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%) (114423-99-3 (Unlabeled)) 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. Not subject to reporting requirements of the United States SARA Section 313.	N-NONANE UNLABELED (111-84-2)				
Immediate (acute) health hazard SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313. TOLUENE UNLABELED (108-88-3) Listed on the United States TSCA (Toxic Substances Control Act) inventory CERCLA RQ 1000 lb SARA Section 302 Threshold Planning Quantity (TPQ) 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 1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%) (114423-99-3 (Unlabeled)) 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. Not subject to reporting requirements of the United States SARA Section 303.		Not subject to reporting requirements of the United States SARA Section 302.			
TOLUENE UNLABELED (108-88-3) Listed on the United States TSCA (Toxic Substances Control Act) inventory CERCLA RQ 1000 lb SARA Section 302 Threshold Planning Quantity (TPQ) 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 1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%) (114423-99-3 (Unlabeled)) Not listed on the United States TSCA (Toxic Substances Control Act) inventory SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302. Not subject to reporting requirements of the United States SARA Section 313.	SARA Section 311/312 Hazard Classes	1			
Listed on the United States TSCA (Toxic Substances Control Act) inventory CERCLA RQ SARA Section 302 Threshold Planning Quantity (TPQ) 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 1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%) (114423-99-3 (Unlabeled)) Not listed on the United States TSCA (Toxic Substances Control Act) inventory SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302. Not subject to reporting requirements of the United States SARA Section 302. Not subject to reporting requirements of the United States SARA Section 313.	SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
CERCLA RQ SARA Section 302 Threshold Planning Quantity (TPQ) 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 1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%) (114423-99-3 (Unlabeled)) Not listed on the United States TSCA (Toxic Substances Control Act) inventory SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302. Not subject to reporting requirements of the United States SARA Section 302. Not subject to reporting requirements of the United States SARA Section 313.	TOLUENE UNLABELED (108-88-3)				
SARA Section 302 Threshold Planning Quantity (TPQ) 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 1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%) (114423-99-3 (Unlabeled)) Not listed on the United States TSCA (Toxic Substances Control Act) inventory SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302. Not subject to reporting requirements of the United States SARA Section 302. Not subject to reporting requirements of the United States SARA Section 303.	Listed on the United States TSCA (Toxic Substan	nces Control Act) inventory			
Quantity (TPQ) 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 1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%) (114423-99-3 (Unlabeled)) Not listed on the United States TSCA (Toxic Substances Control Act) inventory SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302. Not subject to reporting requirements of the United States SARA Section 313.	CERCLA RQ	1000 lb			
Immediate (acute) health hazard Delayed (chronic) health hazard SARA Section 313 - Emission Reporting Subject to reporting requirements of United States SARA Section 313 1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%) (114423-99-3 (Unlabeled)) Not listed on the United States TSCA (Toxic Substances Control Act) inventory SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302. Not subject to reporting requirements of the United States SARA Section 313.					
1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%) (114423-99-3 (Unlabeled)) Not listed on the United States TSCA (Toxic Substances Control Act) inventory SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302. Not subject to reporting requirements of the United States SARA Section 313.	SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard			
Not listed on the United States TSCA (Toxic Substances Control Act) inventory SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302. Not subject to reporting requirements of the United States SARA Section 313.	SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313			
SARA Section 302 Threshold Planning Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 302. Not subject to reporting requirements of the United States SARA Section 313.	1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (1	3C12, 99%) (114423-99-3 (Unlabeled))			
Quantity (TPQ) SARA Section 313 - Emission Reporting Not subject to reporting requirements of the United States SARA Section 313.	Not listed on the United States TSCA (Toxic Sub	stances Control Act) inventory			
		Not subject to reporting requirements of the United States SARA Section 302.			
1,2,3,7,8,9-HexaCDD (13C12, 99%) (109719-82-6)	SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.			
	1,2,3,7,8,9-HexaCDD (13C12, 99%) (109719-82	-6)			
Not listed on the United States TSCA (Toxic Substances Control Act) inventory	Not listed on the United States TSCA (Toxic Sub	stances Control Act) inventory			

15.2. International regulations

CANADA

US EPA METHOD 8290 RECOVERY STANDARD SOLUTION (13C12, 99%) IN NONANE

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)

1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%) (114423-99-3)

Not listed on the Canadian DSL (Domestic Substances List)

1,2,3,7,8,9-HexaCDD (13C12, 99%) (109719-82-6)

15.2.1. National regulations

TOLUENE UNLABELED (108-88-3)

1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%) (114423-99-3)

1,2,3,7,8,9-HexaCDD (13C12, 99%) (109719-82-6)

15.3. US State regulations

US EPA METHOD 8290 RECOVERY STANDARD SOLUTION (13C12, 99%) IN NONANE		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	Yes	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	
No significant risk level (NSRL)	7000 μg/day	
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	

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N-NONANE UNLABEL	ED (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	7000 µg/day
TOLUENE UNLABELE	D (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	7000 μg/day
1,2,3,4-TETRACHLOR	ODIBENZO-P-DIOXIN (13C12, 9	9%) (114423-99-3)	·	
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)
Yes	No	No	No	7000 µg/day
1,2,3,7,8,9-HexaCDD (1	13C12, 99%) (109719-82-6)			
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	No	No	No	7000 μg/day

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

1,2,3,4-TETRACHLORODIBENZO-P-DIOXIN (13C12, 99%) (114423-99-3)

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:

tox of it, if and Eoff philades.		
Acute Tox. 1 (Dermal)	Acute toxicity (dermal) Category 1	
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2	
Acute Tox. 2 (Oral)	Acute toxicity (oral) Category 2	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal) Category 4	
Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4	
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) 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	
Asp. Tox. 1	Aspiration hazard Category 1	

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Carc. 1A	Carcinogenicity Category 1A
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
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT RE 2	Specific target organ toxicity (repeated exposure) Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H300	Fatal if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H310	Fatal in contact with skin
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H330	Fatal if inhaled
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness
H350	May cause cancer
H361	Suspected of damaging fertility or the unborn child
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic 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
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed
R36/38	Irritating to eyes and skin
R38	Irritating to skin
R45	May cause cancer
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R50	Very toxic to aquatic organisms
R51/53	Toxic to aquatic organisms, 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+	Very toxic
Xi	Irritant
Xn	Harmful

NFPA health hazard

: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard

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

NFPA reactivity

: 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating

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

Flammability : 3 Serious Hazard
Physical : 0 Minimal Hazard

CIL Multi-Solvent Mixture SDS

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

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