



ACID EXTRACTABLES MIXTURE-3

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: 19/12/2014
ES-2036

Revision date: 05/05/2022

Supersedes: 04/04/2022

Version: 2.1

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

1.1. Product identifier

Product form : Mixtures
Product name : ACID EXTRACTABLES MIXTURE-3
Product code : ES-2036

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
Acute Tox. 3 (Oral)	H301
Acute Tox. 3 (Dermal)	H311
Acute Tox. 4 (Inhalation:dust,mist)	H332
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Muta. 1B	H340
Carc. 1A	H350
Asp. Tox. 1	H304
Aquatic Chronic 3	H412

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.1; R45
Carc.Cat.1; R49
Muta.Cat.1; R46
F; R11
Xn; R22
Xn; R65
Xi; R36/38
R52/53

Full text of R-phrases: see section 16

GHS-US classification

Flam. Liq. 2	H225
Acute Tox. 3 (Oral)	H301
Acute Tox. 3 (Dermal)	H311

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Acute Tox. 4 (Inhalation:dust,mist)	H332
Skin Irrit. 2	H315
Eye Irrit. 2A	H319
Resp. Sens. 1	H334
Skin Sens. 1	H317
Muta. 1B	H340
Carc. 1A	H350
Aquatic Acute 3	H402
Aquatic Chronic 3	H412




Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects




Blood, Eyes, Female reproductive system, Bone marrow.

2.2. Label elements

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

Hazard pictograms (CLP)	:	  
		GHS02 GHS08 GHS06
Signal word (CLP)	:	Danger
Hazardous ingredients	:	4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%); PENTACHLOROPHENOL (13C6, 99%); PHENOL (RING-D5, 98%); BENZENE-D6 (D, 99.5%) ; 2,4-DICHLOROPHENOL (RING-D3, 98%); 2,4-DINITROPHENOL (RING-D3, 98%); 4-NITROPHENOL-RING-D4 (D, 98%)
Hazard statements (CLP)	:	H225 - Highly flammable liquid and vapor H301+H311 - Toxic if swallowed or in contact with skin H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H332 - Harmful if inhaled H340 - May cause genetic defects (in contact with skin, if inhaled, if swallowed) H350 - May cause cancer (if inhaled, if swallowed, in contact with skin) H412 - Harmful to aquatic life with long lasting effects
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. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area.
EUH phrases	:	EUH208 - Contains 4-CHLORO-3-METHYLPHENOL (RING-2,6-D2, 98%)(93951-72-5), 4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%)(93951-76-9). May produce an allergic reaction

GHS-US labeling

Hazard pictograms (GHS-US)	:	  
		GHS02 GHS08 GHS06
Signal word (GHS-US)	:	Danger
Hazard statements (GHS-US)	:	H225 - Highly flammable liquid and vapor H301+H311 - Toxic if swallowed or in contact with skin H315 - Causes skin irritation H317 - May cause an allergic skin reaction H319 - Causes serious eye irritation H332 - Harmful if inhaled H334 - May cause an allergy or asthma symptoms or breathing difficulties if inhaled H340 - May cause genetic defects (Dermal, Inhalation, oral) H350 - May cause cancer (Dermal, oral, Inhalation) H402 - Harmful to aquatic life

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H412 - Harmful to aquatic life with long lasting effects

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, sparks, open flames. - 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 vapors, spray, mist, gas, dust, fume.
P264 - Wash Both hands thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P271 - Use only outdoors or in a well-ventilated area.
P272 - Contaminated work clothing must not be allowed out of the workplace
P273 - Avoid release to the environment.
P280 - Wear protective clothing, protective gloves.
P284 - [In case of inadequate ventilation] wear respiratory protection.
P301+P310 - If swallowed: Immediately call a poison center or doctor
P302+P352 - If on skin: Wash with plenty of water
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P308+P313 - If exposed or concerned: Get medical advice/attention.
P312 - Call a poison center or doctor if you feel unwell
P321 - Specific treatment (see Hazard pictograms (CLP) on this label)
P330 - Rinse mouth.
P332+P313 - If skin irritation occurs: Get medical advice/attention.
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P342+P311 - If experiencing respiratory symptoms: Call a poison center or doctor
P361 - Take off immediately all contaminated clothing.
P362 - Take off contaminated clothing and wash before reuse.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P363 - Wash contaminated clothing before reuse.
P370+P378 - In case of fire: Use Alcohol resistant foam, Carbon dioxide, Dry chemical, Water spray to extinguish.
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
BENZENE-D6 (D, 99.5%)	(CAS-No.) 1076-43-3 (EC-No.) 214-061-8 (EC Index-No.) 601-020-00-8 (Unlabeled)	94.052215	F; R11 Carc.Cat.1; R45 Muta.Cat.1; R46 Carc.Cat.2; R49 Xn; R65 Xi; R38
2,4-DINITROPHENOL (RING-D3, 98%)	(CAS-No.) 51-28-5 (Unlabeled) (EC-No.) 200-087-7 (Unlabeled) (EC Index-No.) 609-041-00-4 (Unlabeled)	0.506278	T; R23/24/25 N; R50 Xn; R48/20
4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%)	(CAS-No.) 93951-76-9 (EC-No.) 208-601-1 (Unlabeled) (EC Index-No.) 609-020-00-X (Unlabeled)	0.494732	T+; R26/27/28 Xi; R41 Xi; R38 Muta.Cat.3; R68 R43 N; R50/53 T+; R27

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Name	Product identifier	%	Classification according to Directive 67/548/EEC
2,4-DICHLOROPHENOL (RING-D3, 98%)	(CAS-No.) 93951-74-7 (EC-No.) 204-429-6 (Unlabeled) (EC Index-No.) 604-011-00-7 (Unlabeled)	0.494717	T+; R28 T; R24 C; R35 Xi; R41 N; R51/53
2-CHLOROPHENOL UNLABELED	(CAS-No.) 95-57-8 (EC-No.) 202-433-2 (EC Index-No.) 604-008-00-0	0.494713	Xn; R20/21/22 N; R51/53
4-CHLORO-3-METHYLPHENOL (RING-2,6-D2, 98%)	(CAS-No.) 93951-72-5 (EC-No.) 200-431-6 (Unlabeled) (EC Index-No.) 604-014-00-3 (Unlabeled)	0.494702	Xn; R21/22 Xi; R41 R42 N; R50
2,4,5-TRICHLOROPHENOL (RING-D2, 97-98%)	(CAS-No.) 95-95-4 (Unlabeled) (EC-No.) 202-467-8 (Unlabeled) (EC Index-No.) 604-017-00-X (Unlabeled)	0.494701	Xi; R36 N; R50/53 Xi; R38 Xn; R22
PENTACHLOROPHENOL (13C6, 99%)	(CAS-No.) 85380-74-1 (EC-No.) 201-778-6 (Unlabeled) (EC Index-No.) 604-002-00-8 (Unlabeled)	0.494678	Xn; R22 R43
2-NITROPHENOL-RING-D4 (D, 98%)	(CAS-No.) 88-75-5 (Unlabeled) (EC-No.) 201-857-5	0.494669	Xn; R22 Xi; R36 Xi; R37 Xi; R38
2,4-DIMETHYLPHENOL (RING-D3, 98%)	(CAS-No.) 105-67-9 (Unlabeled) (EC-No.) 203-321-6 (EC Index-No.) 604-006-00-X	0.494664	N; R50/53
2,4,6-TRICHLOROPHENOL (RING-D2, 98%)	(CAS-No.) 93951-80-5 (EC-No.) 201-795-9 (Unlabeled) (EC Index-No.) 604-018-00-5 (Unlabeled)	0.494646	Carc.Cat.3; R40 Xn; R22 Xi; R36/38 N; R51/53 N; R50
4-NITROPHENOL-RING-D4 (D, 98%)	(CAS-No.) 93951-79-2 (EC-No.) 202-811-7 (Unlabeled)	0.494646	N; R51/53 T; R25 T; R48/25 Xn; R20/21
PHENOL (RING-D5, 98%)	(CAS-No.) 4165-62-2 (EC-No.) 203-632-7 (Unlabeled) (EC Index-No.) 604-001-00-2 (Unlabeled) (REACH-no) 01-2119471329-32	0.494639	T; R48/23/24/25 C; R35 Muta.Cat.3; R68

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
BENZENE-D6 (D, 99.5%)	(CAS-No.) 1076-43-3 (EC-No.) 214-061-8 (EC Index-No.) 601-020-00-8 (Unlabeled)	94.052215	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Muta. 1B, H340 Carc. 1A, H350 Asp. Tox. 1, H304
2,4-DINITROPHENOL (RING-D3, 98%)	(CAS-No.) 51-28-5 (Unlabeled) (EC-No.) 200-087-7 (Unlabeled) (EC Index-No.) 609-041-00-4 (Unlabeled)	0.506278	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Acute 1, H400
4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%)	(CAS-No.) 93951-76-9 (EC-No.) 208-601-1 (Unlabeled) (EC Index-No.) 609-020-00-X (Unlabeled)	0.494732	Acute Tox. 2 (Oral), H300 Acute Tox. 2 (Dermal), H310 Acute Tox. 2 (Inhalation:dust,mist), H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2,4-DICHLOROPHENOL (RING-D3, 98%)	(CAS-No.) 93951-74-7 (EC-No.) 204-429-6 (Unlabeled) (EC Index-No.) 604-011-00-7 (Unlabeled)	0.494717	Acute Tox. 2 (Oral), H300 Acute Tox. 3 (Dermal), H311 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411
2-CHLOROPHENOL UNLABELED	(CAS-No.) 95-57-8 (EC-No.) 202-433-2 (EC Index-No.) 604-008-00-0	0.494713	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Aquatic Chronic 2, H411

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4-CHLORO-3-METHYLPHENOL (RING-2,6-D2, 98%)	(CAS-No.) 93951-72-5 (EC-No.) 200-431-6 (Unlabeled) (EC Index-No.) 604-014-00-3 (Unlabeled)	0.494702	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Dam. 1, H318 Resp. Sens. 1, H334 Aquatic Acute 1, H400
2,4,5-TRICHLOROPHENOL (RING-D2, 97-98%)	(CAS-No.) 95-95-4 (Unlabeled) (EC-No.) 202-467-8 (Unlabeled) (EC Index-No.) 604-017-00-X (Unlabeled)	0.494701	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PENTACHLOROPHENOL (13C6, 99%)	(CAS-No.) 85380-74-1 (EC-No.) 201-778-6 (Unlabeled) (EC Index-No.) 604-002-00-8 (Unlabeled)	0.494678	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 2 (Inhalation), H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-NITROPHENOL-RING-D4 (D, 98%)	(CAS-No.) 88-75-5 (Unlabeled) (EC-No.) 201-857-5	0.494669	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 Aquatic Chronic 3, H412
2,4-DIMETHYLPHENOL (RING-D3, 98%)	(CAS-No.) 105-67-9 (Unlabeled) (EC-No.) 203-321-6 (EC Index-No.) 604-006-00-X	0.494664	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Aquatic Chronic 2, H411
2,4,6-TRICHLOROPHENOL (RING-D2, 98%)	(CAS-No.) 93951-80-5 (EC-No.) 201-795-9 (Unlabeled) (EC Index-No.) 604-018-00-5 (Unlabeled)	0.494646	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
4-NITROPHENOL-RING-D4 (D, 98%)	(CAS-No.) 93951-79-2 (EC-No.) 202-811-7 (Unlabeled)	0.494646	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Aquatic Chronic 2, H411
PHENOL (RING-D5, 98%)	(CAS-No.) 4165-62-2 (EC-No.) 203-632-7 (Unlabeled) (EC Index-No.) 604-001-00-2 (Unlabeled) (REACH-no) 01-2119471329-32	0.494639	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H311 Skin Corr. 1A, H314 Muta. 2, H341 STOT RE 2, H373

Name	Product identifier	%	GHS-US classification
BENZENE-D6 (D, 99.5%)	(CAS-No.) 1076-43-3	94.052215	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Muta. 1B, H340 Carc. 1A, H350 Asp. Tox. 1, H304
2,4-DINITROPHENOL (RING-D3, 98%)	(CAS-No.) 51-28-5 (Unlabeled)	0.506278	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation), H331 STOT RE 2, H373 Aquatic Acute 1, H400
4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%)	(CAS-No.) 93951-76-9	0.494732	Acute Tox. 2 (Oral), H300 Acute Tox. 2 (Dermal), H310 Acute Tox. 1 (Inhalation), H330 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 1, H410
2,4-DICHLOROPHENOL (RING-D3, 98%)	(CAS-No.) 93951-74-7	0.494717	Acute Tox. 2 (Oral), H300 Acute Tox. 3 (Dermal), H311 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411
2-CHLOROPHENOL UNLABELED	(CAS-No.) 95-57-8	0.494713	Flam. Liq. 4, H227 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

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Name	Product identifier	%	GHS-US classification
4-CHLORO-3-METHYLPHENOL (RING-2,6-D2, 98%)	(CAS-No.) 93951-72-5	0.494702	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Eye Dam. 1, H318 Resp. Sens. 1, H334 Aquatic Acute 1, H400
2,4,5-TRICHLOROPHENOL (RING-D2, 97-98%)	(CAS-No.) 95-95-4 (Unlabeled)	0.494701	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
PENTACHLOROPHENOL (13C6, 99%)	(CAS-No.) 85380-74-1	0.494678	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 1 (Inhalation), H330 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Carc. 2, H351 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
2-NITROPHENOL-RING-D4 (D, 98%)	(CAS-No.) 88-75-5 (Unlabeled)	0.494669	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H336 Aquatic Acute 3, H402 Aquatic Chronic 3, H412
2,4-DIMETHYLPHENOL (RING-D3, 98%)	(CAS-No.) 105-67-9 (Unlabeled)	0.494664	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Aquatic Acute 2, H401 Aquatic Chronic 2, H411
2,4,6-TRICHLOROPHENOL (RING-D2, 98%)	(CAS-No.) 93951-80-5	0.494646	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 Aquatic Acute 1, H400 Aquatic Chronic 2, H411
4-NITROPHENOL-RING-D4 (D, 98%)	(CAS-No.) 93951-79-2	0.494646	Acute Tox. 3 (Oral), H301 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 STOT RE 2, H373 Aquatic Chronic 2, H411
PHENOL (RING-D5, 98%)	(CAS-No.) 4165-62-2	0.494639	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Corr. 1B, H314 Eye Dam. 1, H318 Muta. 2, H341 STOT RE 2, H373

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 : Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
- 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. Immediately call a poison center or doctor/physician. Wash with plenty of soap and water. Specific measures (see Hazard pictograms (CLP) on this label). Wash contaminated clothing before reuse. If skin irritation occurs: Wash with plenty of soap and water. Get medical advice/attention. Specific treatment (see Hazard pictograms (CLP) on this label).
- First-aid measures after eye contact : Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
- First-aid measures after ingestion : Rinse mouth. Obtain emergency medical attention. Immediately call a poison center or doctor/physician.

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

- Symptoms/effects : May cause genetic defects (Inhalation, dermal, oral). May cause cancer (in contact with skin, if inhaled, if swallowed).
- Symptoms/effects after inhalation : Harmful if inhaled. Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.

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Symptoms/effects after skin contact	: Toxic in contact with skin. Causes skin irritation. May cause allergic skin reaction. Repeated exposure to this material can result in absorption through skin causing significant health hazard.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard. May be fatal if swallowed and enters airways.

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 : Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Highly flammable liquid and vapor.
Explosion hazard	: May form flammable/explosive vapor-air mixture.
Reactivity	: Highly flammable liquid and vapor. May form flammable/explosive vapor-air mixture.

5.3. Advice for firefighters

Firefighting instructions	: Wear self contained breathing apparatus for fire fighting if necessary.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
Other information	: Use water spray to cool exposed surfaces.

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 : Use personal protective equipment as required. Avoid breathing dust, fume, gas, mist, spray, vapors. Ensure adequate air ventilation. Eliminate all ignition sources if safe to do so. Evacuate unnecessary personnel. Special attention should be given to low areas/pits where flammable vapors can accumulate.

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 further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

6.3. Methods and material for containment and cleaning up

For containment	: For large spills, confine the spill in a dike and charge it with wet sand or earth for subsequent safe disposal. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Collect spillage. Clean up any spills as soon as possible, using an absorbent material to collect it. Vacuum with an equipment that avoids ignition risk.
Methods for cleaning up	: This material and its container must be disposed of in a safe way, and as per local legislation.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

No additional information available

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. Use only outdoors or in a well-ventilated area. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Eliminate all ignition sources if safe to do so.
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands, forearms and face thoroughly after handling.

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 electrical equipment.
Storage conditions	: Store at room temperature away from light and moisture.
Incompatible materials	: Heat sources.

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7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

PHENOL (RING-D5, 98%) (4165-62-2)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	5.00000000 ppm Central Nervous System impairment. Upper Respiratory Tract irritation. Lung damage. Not classifiable as a human carcinogen. Danger of cutaneous absorption.
Italy - Portugal - USA ACGIH	Remark (ACGIH)	ACGIH - Biological Indices (BEI) 250 mg/g Creatinine - Urine Remarks: End of shift (As soon as possible after exposure ceases).
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	19 mg/m ³ Potential for dermal absorption.
USA NIOSH	NIOSH REL (TWA) (ppm)	5 ppm Potential for dermal absorption.
USA NIOSH	NIOSH REL (ceiling) (mg/m ³)	60 mg/m ³ Potential for dermal absorption. 15 minute ceiling value
USA NIOSH	NIOSH REL (ceiling) (ppm)	15.6 ppm Potential for dermal absorption. 15 minute ceiling value.
USA OSHA	OSHA PEL (TWA) (mg/m ³)	19 mg/m ³ Skin notation. The value in mg/m ³ is approximate.
USA OSHA	OSHA PEL (TWA) (ppm)	5 ppm Skin notation.
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	19 mg/m ³ Skin. California permissible exposure limits for chemical contaminants.
USA OSHA	OSHA PEL (Ceiling) (ppm)	5 ppm Skin. California permissible exposure limits for chemical contaminants.
2,4-DICHLOROPHENOL (RING-D3, 98%) (93951-74-7)		
USA OSHA	Remark (OSHA)	Component: 2,4-Dichlorophenol CAS-No.: 120-83-2 Value: TWA Control parameters: 1.00000 ppm Remarks: Kin. Absorbed rapidly through the skin in molten or heated liquid form in amounts that have caused rapid death in humans. Basis: USA. Workplace Environmental Exposure Levels (WEEL)
4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%) (93951-76-9)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0.2 mg/m ³ Basal metabolism. Danger of cutaneous absorption
USA NIOSH	NIOSH REL (TWA) (mg/m ³)	0.2 mg/m ³ Potential for dermal asorption.
USA OSHA	OSHA PEL (TWA) (mg/m ³)	0.2 mg/m ³ Skin designation.
USA OSHA	OSHA PEL (Ceiling) (mg/m ³)	0.2 mg/m ³ Skin. California permissible exposure limits for chemical contaminants. (Title 8, Article 107)
PENTACHLOROPHENOL (13C6, 99%) (85380-74-1)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	0.5 mg/m ³ Central Nervous System impairment. Upper Respiratory Tract & Eye irritation.
USA NIOSH	NIOSH REL (TWA) (ppm)	0.5 ppm Potential for dermal absorption
USA OSHA	OSHA PEL (TWA) (mg/m ³)	0.5 mg/m ³ Skin designation
BENZENE-D6 (D, 99.5%) (1076-43-3)		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	0.50000000 ppm Leukemia Substances for which there is a Biological Exposure Index or Indices.
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	2.5 ppm Leukemia Substances for which there is a Biological Exposure Index or Indices.
USA OSHA	OSHA PEL (TWA) (ppm)	10 ppm

8.2. Exposure controls

Personal protective equipment

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



Hand protection

: Wear suitable protective clothing and gloves.

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Eye protection	: Wear safety glasses with side shields (or goggles) and a face shield.
Skin and body protection	: Wear suitable protective clothing.
Respiratory protection	: Wear appropriate mask.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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

Physical state	: Liquid
Appearance	: Liquid
Molecular mass	: 84.15 g/mol (labeled)
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	: 5.5 °C (41.9 °F) - lit
Freezing point	: No data available
Boiling point	: 80 °C (176 °F) - lit
Flash point	: -11 °C (12.2 °F) - closed cup
Auto-ignition temperature	: 562 °C (1,044 °F)
Decomposition temperature	: No data available
Flammability (solid, gas)	: Highly flammable liquid and vapor
Vapor pressure	: 221.3 hPa (166.0 mmHg) at 37.7°C (99.9°F), 99.5 hPa (74.6 mmHg) at 20°C (68°F)
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 0.95 g/ml at 25 °C (77 °F) (Labeled)
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	: 1.3 - 8 % (V)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Highly flammable liquid and vapor. 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.

10.5. Incompatible materials

Acids. Bases. Halogens. Metallic salts. Strong oxidizing agents.

10.6. Hazardous decomposition products

May release flammable gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:dust,mist: Harmful if inhaled.

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LD50 oral rat	2990 mg/kg
LD50 dermal rabbit	8263 mg/kg
LC50 inhalation rat (mg/l)	44700 mg/m ³ female - 4 h
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight
ATE CLP (vapors)	44.700 mg/l/4h
ATE CLP (dust, mist)	1.500 mg/l/4h
2,4-DIMETHYLPHENOL (RING-D3, 98%) (105-67-9 (Unlabeled))	
LD50 oral rat	2300 mg/kg
LD50 oral	530 mg/kg Mouse
LD50 dermal rat	1040 mg/kg
LC50 inhalation rat (mg/l)	> 30 mg/m ³
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight
PHENOL (RING-D5, 98%) (4165-62-2)	
LD50 oral rat	410.0 - 650.0 mg/kg
LD50 oral	317 mg/kg Rat Remarks: Behavioral: convulsions or effect on seizure threshold.
LD50 dermal rabbit	630 mg/kg
LC50 inhalation rat (mg/l)	900 mg/m ³ 8 h
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	630.000 mg/kg body weight
ATE CLP (vapors)	0.900 mg/l/4h
ATE CLP (dust, mist)	0.900 mg/l/4h
2-CHLOROPHENOL UNLABELED (95-57-8)	
LD50 oral rat	670 mg/kg
ATE CLP (oral)	670.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
ATE CLP (dust, mist)	1.500 mg/l/4h
2,4-DICHLOROPHENOL (RING-D3, 98%) (93951-74-7)	
LD50 oral rat	47 mg/kg Remarks: Behavioral: Food intake (animal). Lungs, Thorax, or Respiration: Dyspnea. Gastrointestinal: Other changes.
LD50 dermal	790 mg/kg Mammal
ATE CLP (oral)	47.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight
2,4,6-TRICHLOROPHENOL (RING-D2, 98%) (93951-80-5)	
LD50 dermal	700 mg/kg - Mammal
ATE CLP (oral)	500.000 mg/kg body weight
2,4,5-TRICHLOROPHENOL (RING-D2, 97-98%) (95-95-4 (Unlabeled))	
LD50 oral rat	820 mg/kg
ATE CLP (oral)	820.000 mg/kg body weight
2,4-DINITROPHENOL (RING-D3, 98%) (51-28-5 (Unlabeled))	
LD50 oral rat	30 mg/kg
LD50 dermal rat	25 mg/kg
ATE CLP (oral)	30.000 mg/kg body weight
ATE CLP (dermal)	25.000 mg/kg body weight
ATE CLP (gases)	700.000 ppmV/4h
ATE CLP (vapors)	3.000 mg/l/4h
ATE CLP (dust, mist)	0.500 mg/l/4h
4-NITROPHENOL-RING-D4 (D, 98%) (93951-79-2)	
LD50 oral rat	202 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Behavioral:Convulsions or effect on seizure threshold. Lungs, Thorax, or Respiration:Dyspnea.
LD50 dermal rat	1024 mg/kg
ATE CLP (oral)	202.000 mg/kg body weight
ATE CLP (dermal)	1024.000 mg/kg body weight
ATE CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	11.000 mg/l/4h

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4-NITROPHENOL-RING-D4 (D, 98%) (93951-79-2)	
ATE CLP (dust, mist)	1.500 mg/l/4h
2-NITROPHENOL-RING-D4 (D, 98%) (88-75-5 (Unlabeled))	
LD50 oral rat	334 mg/kg
LD50 dermal rabbit	> mg/kg
ATE CLP (oral)	334.000 mg/kg body weight
4-CHLORO-3-METHYLPHENOL (RING-2,6-D2, 98%) (93951-72-5)	
LD50 oral rat	1830 mg/kg (OECD Test Guideline 401)
LD50 dermal rat	2000 mg/kg - Female - (OECD Test Guideline 402)
LC50 inhalation rat (mg/l)	> 2.87 mg/l - male and female - 4 h - (OECD Test Guideline 403)
ATE CLP (oral)	1830.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%) (93951-76-9)	
LD50 oral rat	7 mg/kg
LD50 dermal rat	200 mg/kg
LD50 dermal rabbit	1000 mg/kg
ATE CLP (oral)	7.000 mg/kg body weight
ATE CLP (dermal)	50.000 mg/kg body weight
ATE CLP (dust, mist)	0.050 mg/l/4h
PENTACHLOROPHENOL (13C6, 99%) (85380-74-1)	
LD50 oral rat	27 mg/kg Remarks: Vascular:BP elevation not characterized in autonomic section. Endocrine:Hyperglycemia. Nutritional and Gross Metabolic:Changes in:Body temperature increase
LD50 dermal rat	96 mg/kg Remarks: Behavioral:Excitement. Behavioral:Muscle contraction or spasticity. Lungs, Thorax, or Respiration:Dyspnea.
LC50 inhalation rat (mg/l)	Remarks: Behavioral:Excitement. Behavioral:Muscle contraction or spasticity. Lungs, Thorax, or Respiration:Dyspnea.
ATE CLP (oral)	27.000 mg/kg body weight
ATE CLP (dermal)	300.000 mg/kg body weight
ATE CLP (gases)	100.000 ppmV/4h
ATE CLP (vapors)	0.500 mg/l/4h
ATE CLP (dust, mist)	0.050 mg/l/4h
BENZENE-D6 (D, 99.5%) (1076-43-3)	
LD50 oral rat	2990 mg/kg
LD50 dermal rabbit	8263 mg/kg
LC50 inhalation rat (mg/l)	44700 mg/m ³ female - 4 h
ATE CLP (oral)	2990.000 mg/kg body weight
ATE CLP (dermal)	8263.000 mg/kg body weight
ATE CLP (vapors)	44.700 mg/l/4h
ATE CLP (dust, mist)	44.700 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation. Skin - Rabbit - Skin irritation
Serious eye damage/irritation	: Causes serious eye irritation. Eyes - Rabbit - Eye irritation
Respiratory or skin sensitization	: May cause an allergic skin reaction.
Germ cell mutagenicity	: May cause genetic defects (in contact with skin, if inhaled, if swallowed).
Carcinogenicity	: May cause cancer (if inhaled, if swallowed, in contact with skin).
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: Not classified
Specific target organ toxicity – repeated exposure	: Not classified
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. Harmful if inhaled. Toxic if swallowed. Toxic in contact with skin.
IARC group	: 1

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Symptoms/effects after inhalation	: Harmful if inhaled. Danger of serious damage to health by prolonged exposure through inhalation. May cause cancer by inhalation.
Symptoms/effects after skin contact	: Toxic in contact with skin. Causes skin irritation. May cause allergic skin reaction. Repeated exposure to this material can result in absorption through skin causing significant health hazard.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health hazard. May be fatal if swallowed and enters airways.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water : Harmful to aquatic life with long lasting effects.

ACID EXTRACTABLES MIXTURE-3	
LC50 fish 1	5.9 mg/l Oncorhynchus mykiss (Rainbow trout) - 96 h
LC50 other aquatic organisms 1	230 mg/l Lepomis macrochirus (Bluegill) - 96 h
EC50 Daphnia 1	22 mg/l Daphnia magna (Water flea) - 48 h
LC50 fish 2	15 - 32 mg/l Pimephales promelas (Fathead minnow) - 96 h
LC50 other aquatic organisms 2	9.2 mg/l Daphnia magna (Water flea) - 48 h
ErC50 (algae)	29 mg/l Pseudokirchneriella subcapitata (Green algae) - 72 h
LOEC (acute)	17.2 mg/l Pimephales promelas (Fathead minnow) - 7 d
NOEC (chronic)	10.2 mg/l Pimephales promelas (Fathead minnow) - 7 d
2,4-DIMETHYLPHENOL (RING-D3, 98%) (105-67-9 (Unlabeled))	
LC50 fish 1	9.2 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 Daphnia 1	2.1 mg/l Daphnia magna (Water flea) - 48 h
PHENOL (RING-D5, 98%) (4165-62-2)	
LC50 fish 1	14 - 25 mg/l - 25 mg/l - Leuciscus idus (Golden orfe) - 48 h
LC50 other aquatic organisms 1	36.1 - 68.8 mg/l Carassius auratus (Goldfish) - 96 h
EC50 Daphnia 1	56 mg/l Daphnia magna (Water flea) - 48 h
EC50 other aquatic organisms 1	370 mg/l Chlorella vulgaris (Fresh water algae) - 96 h
2-CHLOROPHENOL UNLABELED (95-57-8)	
LC50 fish 1	5.7 - 12 mg/l Lepomis macrochirus (Bluegill) - 96 h
LC50 other aquatic organisms 1	10.7 - 15.2 mg/l Carassius auratus (goldfish) - 96 h
EC50 Daphnia 1	6.3 - 17.9 mg/l Daphnia magna (Water flea) - 24 h
EC50 other aquatic organisms 1	70 mg/l Pseudokirchneriella subcapitata (Green algae) - 96 h
LC50 fish 2	6 - 16 mg/l Pimephales promelas (fathead minnow) - 96 h
LC50 other aquatic organisms 2	170 mg/l Chlorella vulgaris (Fresh water algae) - 96 h
ErC50 (algae)	3.91 mg/l Daphnia magna (Water flea) - 48 h
2,4-DICHLOROPHENOL (RING-D3, 98%) (93951-74-7)	
LC50 fish 1	1.6 - 2.6 mg/l Lepomis macrochirus (Bluegill) - 96 h
LC50 other aquatic organisms 1	9.2 mg/l Growth inhibition EC50 - Chlorella vulgaris (Fresh water algae) - 96 h
EC50 Daphnia 1	2.7 - 3.9 mg/l Daphnia magna (Water flea) - 24 h
LC50 fish 2	2.2 - 3.1 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 Daphnia 2	9.2 mg/l Chlorella vulgaris (Fresh water algae) - 96 h
2,4,6-TRICHLOROPHENOL (RING-D2, 98%) (93951-80-5)	
EC50 Daphnia 1	3.34 mg/l Immobilization EC50 - Daphnia magna (Water flea) - 48 h
LOEC (acute)	> 1.76 mg/l - Jordanella floridae - 10.0 d
2,4,5-TRICHLOROPHENOL (RING-D2, 97-98%) (95-95-4 (Unlabeled))	
LC50 fish 1	0.274 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 Daphnia 1	0.9 mg/l Immobilization EC50 - Daphnia magna (Water flea) - 48 h
NOEC (acute)	1 mg/l Cyprinodon variegatus (sheepshead minnow) - 96 h
2,4-DINITROPHENOL (RING-D3, 98%) (51-28-5 (Unlabeled))	
LC50 fish 1	13 - 36.3 mg/l Cyprinodon variegatus (sheepshead minnow) - 96 h
LC50 other aquatic organisms 1	1.76 - 5.9 mg/l Lepomis macrochirus (Bluegill) - 96 h
EC50 Daphnia 1	6.1 - 7 mg/l Daphnia magna (Water flea) - 24 h
EC50 other aquatic organisms 1	40 mg/l Desmodesmus subspicatus (green algae) - 48 h
LC50 fish 2	0.39 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 other aquatic organisms 2	5.55 - 17.4 mg/l SELENASTRUM - 72 h

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4-NITROPHENOL-RING-D4 (D, 98%) (93951-79-2)	
LC50 fish 1	26.7 - 31.3 mg/l Cyprinodon variegatus (sheepshead minnow) - 96 h
LC50 other aquatic organisms 1	3.8 - 18 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 Daphnia 1	3.1 - 24 mg/l Daphnia magna (Water flea) - 48 h
LC50 other aquatic organisms 2	30.4 - 67 mg/l Pimephales promelas (fathead minnow) - 96 h
EC50 Daphnia 2	11 mg/l No information available. - 48 h.
ErC50 (algae)	11 mg/l 48 h
NOEC (acute)	5.31 mg/l Oncorhynchus mykiss (rainbow trout) - 14 d

2-NITROPHENOL-RING-D4 (D, 98%) (88-75-5 (Unlabeled))	
EC50 Daphnia 1	17 mg/l Daphnia magna (Water flea) - 48 h
NOEC (chronic)	24 mg/l Cyprinodon variegatus (sheepshead minnow) - 96 h

4-CHLORO-3-METHYLPHENOL (RING-2,6-D2, 98%) (93951-72-5)	
LC50 fish 1	0.92 mg/l Oncorhynchus mykiss (rainbow trout) - 96.0 h
EC50 Daphnia 1	41.4 mg/l activated sludge - 3 h - (OECD Test Guideline 209)
LC50 fish 2	2.29 mg/l Daphnia magna (Water flea) - 48 h
ErC50 (algae)	30.62 mg/l Desmodesmus subspicatus (green algae) - 72 h - (OECD Test Guideline 201)

4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%) (93951-76-9)	
LC50 fish 1	1.54 mg/l Pimephales promelas (fathead minnow) - 96 h
EC50 Daphnia 1	2.7 mg/l Immobilization EC50 - Daphnia magna (Water flea) - 48 h
LOEC (acute)	0.5 mg/l Cyprinus carpio (Carp) - 5 d
LOEC (chronic)	2 mg/l Cyprinus carpio (Carp) - 513 d
NOEC (chronic)	0.25 mg/l Cyprinus carpio (Carp) - 5 d
NOEC chronic fish	1 mg/l Cyprinus carpio (Carp) - 13 d

PENTACHLOROPHENOL (13C6, 99%) (85380-74-1)	
LC50 fish 1	0.16 - 0.5 mg/l Cyprinodon variegatus (sheepshead minnow) - 96 h
LC50 other aquatic organisms 1	0.16 - 0.38 mg/l Carassius auratus (goldfish) - 96 h
EC50 Daphnia 1	0.3 - 1.3 mg/l Daphnia magna (Water flea) - 48 h
EC50 other aquatic organisms 1	10.3 mg/l Chlorella vulgaris (Fresh water algae) - 96 h
LC50 other aquatic organisms 2	0.075 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 Daphnia 2	0.08 mg/l Scenedesmus quadricauda (Green algae) - 96 h
LOEC (acute)	0.1 mg/l other fish - 24 h
NOEC (chronic)	0.01 mg/l other fish - 24 h

BENZENE-D6 (D, 99.5%) (1076-43-3)	
LC50 fish 1	5.9 mg/l Oncorhynchus mykiss (Rainbow trout) - 96 h
LC50 other aquatic organisms 1	230 mg/l Lepomis macrochirus (Bluegill) - 96 h
EC50 Daphnia 1	22 mg/l Daphnia magna (Water flea) - 48 h
LC50 fish 2	15 - 32 mg/l Pimephales promelas (Fathead minnow) - 96 h
LC50 other aquatic organisms 2	9.2 mg/l Daphnia magna (Water flea) - 48 h
ErC50 (algae)	29 mg/l Pseudokirchneriella subcapitata (Green algae) - 72 h
LOEC (acute)	17.2 mg/l Pimephales promelas (Fathead minnow) - 7 d
NOEC (chronic)	10.2 mg/l Pimephales promelas (Fathead minnow) - 7 d

12.2. Persistence and degradability

ACID EXTRACTABLES MIXTURE-3	
Persistence and degradability	May cause long-term adverse effects in the environment.

2,4-DIMETHYLPHENOL (RING-D3, 98%) (105-67-9 (Unlabeled))	
Persistence and degradability	Not available.

PHENOL (RING-D5, 98%) (4165-62-2)	
Persistence and degradability	Readily biodegradable.

2,4,6-TRICHLOROPHENOL (RING-D2, 98%) (93951-80-5)	
Persistence and degradability	May cause long-term adverse effects in the environment.

4-NITROPHENOL-RING-D4 (D, 98%) (93951-79-2)	
Biodegradation	90 % - Readily biodegradable. aerobic - Exposure time 28 d.

4-CHLORO-3-METHYLPHENOL (RING-2,6-D2, 98%) (93951-72-5)	
Persistence and degradability	Aerobic - exposure time: 28 d - Result: 85 % - Readily biodegradable - (OECD Test Guideline 301D).
ThOD	1852 mg/g

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PENTACHLOROPHENOL (13C6, 99%) (85380-74-1)	
Biodegradation	99 % Biodegradable

BENZENE-D6 (D, 99.5%) (1076-43-3)	
Persistence and degradability	Readily biodegradable.

12.3. Bioaccumulative potential

2,4-DIMETHYLPHENOL (RING-D3, 98%) (105-67-9 (Unlabeled))	
BCF fish 1	0.0102 mg/l <i>Lepomis macrochirus</i> - 28 d
Bioconcentration factor (BCF REACH)	150
Log Pow	2.35

PHENOL (RING-D5, 98%) (4165-62-2)	
BCF fish 1	2 mg/l <i>Danio rerio</i> (zebra fish) - 5 h
Bioconcentration factor (BCF REACH)	17.5 Remarks: Does not bioaccumulate.
Log Pow	1.46

2-CHLOROPHENOL UNLABELED (95-57-8)	
BCF fish 1	0.00918 mg/l <i>Lepomis macrochirus</i> (Bluegill) - 28 d
Bioconcentration factor (BCF REACH)	214
Log Pow	2.17

2,4-DICHLOROPHENOL (RING-D3, 98%) (93951-74-7)	
BCF fish 1	8 mg/l <i>Carassius auratus</i> (goldfish) - 24 h
Bioconcentration factor (BCF REACH)	34
Log Pow	3.065

2,4,6-TRICHLOROPHENOL (RING-D2, 98%) (93951-80-5)	
BCF fish 1	0.0005 mg/l Bioaccumulation - <i>Poecilia reticulata</i> (guppy) - 36 d
Bioconcentration factor (BCF REACH)	12180

2,4,5-TRICHLOROPHENOL (RING-D2, 97-98%) (95-95-4 (Unlabeled))	
BCF fish 1	0.0048 mg/l <i>Pimephales promelas</i> (fathead minnow) - 28 d
Bioconcentration factor (BCF REACH)	1900

2,4-DINITROPHENOL (RING-D3, 98%) (51-28-5 (Unlabeled))	
Bioconcentration factor (BCF REACH)	10

4-NITROPHENOL-RING-D4 (D, 98%) (93951-79-2)	
BCF fish 1	0.0441 mg/l <i>Pimephales promelas</i> (fathead minnow) - 28 d
Bioconcentration factor (BCF REACH)	280
Log Pow	1.91

4-CHLORO-3-METHYLPHENOL (RING-2,6-D2, 98%) (93951-72-5)	
BCF fish 1	0.002 mg/l <i>Cyprinus carpio</i> (Carp) - 6 Weeks at 25 °C - (Chlorocresol)
Bioconcentration factor (BCF REACH)	5.5 - 11
Log Pow	0.47 at 30 °C (86 °F) - Bioaccumulation is not expected.

PENTACHLOROPHENOL (13C6, 99%) (85380-74-1)	
BCF fish 1	0.0912 mg/l <i>Oncorhynchus mykiss</i> (rainbow trout) - 144 h
Bioconcentration factor (BCF REACH)	482
Log Pow	5.12

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

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 : Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dispose of contents/container to Comply with applicable regulations.
- Additional information : Handle empty containers with care because residual vapors are flammable.

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Ecology - waste materials : Dispose of as unused product. Hazardous waste due to toxicity.

SECTION 14: Transport information

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

14.1. UN number

UN-No.(DOT) : 1114
DOT NA no. UN1114

14.2. UN proper shipping name

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



Packing group (DOT) : II - Medium Danger
DOT Special Provisions (49 CFR 172.102) : IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized.
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx) : 150
DOT Packaging Non Bulk (49 CFR 173.xxx) : 202
DOT Packaging Bulk (49 CFR 173.xxx) : 242

14.3. Additional information

Other information : No supplementary information available.

Overland transport

Packing group (ADR) : II
Class (ADR) : 3 - Flammable liquid
Hazard identification number (Kemler No.) : 33
Classification code (ADR) : F1
Hazard labels (ADR) : 3 - Flammable liquids



Orange plates : An orange rectangular label with a black border. It contains the number "33" in the top half and "1114" in the bottom half, both in black text.

Tunnel restriction code (ADR) : D/E
Limited quantities (ADR) : 11
EAC : 3WE
APP : A(fl)
Excepted quantities (ADR) : E2

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.
DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"
MFAg-No : 130

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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)

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

ACID EXTRACTABLES MIXTURE-3

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 Delayed (chronic) health hazard
-------------------------------------	---

SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.
---------------------------------------	--

2,4-DIMETHYLPHENOL (RING-D3, 98%) (105-67-9 (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 311/312 Hazard Classes	Immediate (acute) health hazard
-------------------------------------	---------------------------------

SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313
---------------------------------------	---

PHENOL (RING-D5, 98%) (4165-62-2)

SARA Section 302 Threshold Planning Quantity (TPQ)	Listed on the United States SARA Section 302
--	--

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
-------------------------------------	--

SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313;
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2-CHLOROPHENOL UNLABELED (95-57-8)

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 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard
-------------------------------------	--

SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313
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2,4-DICHLOROPHENOL (RING-D3, 98%) (93951-74-7)

Subject to reporting requirements of United States SARA Section 313

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 Delayed (chronic) health hazard
-------------------------------------	--

2,4,6-TRICHLOROPHENOL (RING-D2, 98%) (93951-80-5)

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 Delayed (chronic) health hazard
-------------------------------------	--

SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313
---------------------------------------	---

2,4,5-TRICHLOROPHENOL (RING-D2, 97-98%) (95-95-4 (Unlabeled))

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 Delayed (chronic) health hazard
-------------------------------------	--

SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313
---------------------------------------	---

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2,4-DINITROPHENOL (RING-D3, 98%) (51-28-5 (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	Fire hazard Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313

4-NITROPHENOL-RING-D4 (D, 98%) (93951-79-2)	
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 311/312 Hazard Classes	Immediate (acute) health hazard
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313

2-NITROPHENOL-RING-D4 (D, 98%) (88-75-5 (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	Subject to reporting requirements of United States SARA Section 313

4-CHLORO-3-METHYLPHENOL (RING-2,6-D2, 98%) (93951-72-5)	
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 Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313

4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%) (93951-76-9)	
SARA Section 302 Threshold Planning Quantity (TPQ)	Listed on the United States SARA Section 302
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313

PENTACHLOROPHENOL (13C6, 99%) (85380-74-1)	
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 Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313

BENZENE-D6 (D, 99.5%) (1076-43-3)	
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 Delayed (chronic) health hazard
SARA Section 313 - Emission Reporting	Not subject to reporting requirements of the United States SARA Section 313.

15.2. International regulations

CANADA

2,4-DICHLOROPHENOL (RING-D3, 98%) (93951-74-7)
Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

ACID EXTRACTABLES MIXTURE-3
Listed on the Canadian NDSL (Non-Domestic Substances List)
BENZENE-D6 (D, 99.5%) (1076-43-3)
Listed on the Canadian NDSL (Non-Domestic Substances List)

15.3. US State regulations

ACID EXTRACTABLES MIXTURE-3()	
U.S. - California - Proposition 65 - Carcinogens List	Yes
U.S. - California - Proposition 65 - Developmental Toxicity	Yes

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ACID EXTRACTABLES MIXTURE-3()				
U.S. - California - Proposition 65 - Reproductive Toxicity - Female		No		
U.S. - California - Proposition 65 - Reproductive Toxicity - Male		Yes		
State or local regulations		RTK - U.S. - Pennsylvania - RTK (Right to Know) List RTK - U.S. - New Jersey - Right to Know Hazardous Substance List		
2,4-DIMETHYLPHENOL (RING-D3, 98%) (105-67-9 (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	
PHENOL (RING-D5, 98%) (4165-62-2)				
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	
2-CHLOROPHENOL UNLABELED (95-57-8)				
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-DICHLOROPHENOL (RING-D3, 98%) (93951-74-7)				
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-TRICHLOROPHENOL (RING-D2, 98%) (93951-80-5)				
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	No	No	No	
2,4,5-TRICHLOROPHENOL (RING-D2, 97-98%) (95-95-4 (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-DINITROPHENOL (RING-D3, 98%) (51-28-5 (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	
4-NITROPHENOL-RING-D4 (D, 98%) (93951-79-2)				
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	
2-NITROPHENOL-RING-D4 (D, 98%) (88-75-5 (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)

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2-NITROPHENOL-RING-D4 (D, 98%) (88-75-5 (Unlabeled))				
No	No	No	No	
4-CHLORO-3-METHYLPHENOL (RING-2,6-D2, 98%) (93951-72-5)				
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	
4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%) (93951-76-9)				
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	
PENTACHLOROPHENOL (13C6, 99%) (85380-74-1)				
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	No	No	No	
BENZENE-D6 (D, 99.5%) (1076-43-3)				
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	Yes	No	Yes	
2,4-DIMETHYLPHENOL (RING-D3, 98%) (105-67-9 (Unlabeled))				
State or local regulations				
RTK - U.S. - Massachusetts - Right To Know List RTK - U.S. - Pennsylvania - RTK (Right to Know) List RTK - U.S. - New Jersey - Right to Know Hazardous Substance List				
PHENOL (RING-D5, 98%) (4165-62-2)				
State or local regulations				
RTK - U.S. - Massachusetts - Right To Know List RTK - U.S. - Pennsylvania - RTK (Right to Know) List RTK - U.S. - New Jersey - Right to Know Hazardous Substance List				
2-CHLOROPHENOL UNLABELED (95-57-8)				
State or local regulations				
RTK - U.S. - Massachusetts - Right To Know List RTK - U.S. - Pennsylvania - RTK (Right to Know) List RTK - U.S. - New Jersey - Right to Know Hazardous Substance List				
2,4-DICHLOROPHENOL (RING-D3, 98%) (93951-74-7)				
State or local regulations				
RTK - U.S. - Massachusetts - Right To Know List RTK - U.S. - New Jersey - Right to Know Hazardous Substance List RTK - U.S. - Pennsylvania - RTK (Right to Know) List				
2,4,6-TRICHLOROPHENOL (RING-D2, 98%) (93951-80-5)				
State or local regulations				
RTK - U.S. - Massachusetts - Right To Know List RTK - U.S. - New Jersey - Right to Know Hazardous Substance List RTK - U.S. - Pennsylvania - RTK (Right to Know) List				
2,4,5-TRICHLOROPHENOL (RING-D2, 97-98%) (95-95-4 (Unlabeled))				
State or local regulations				
RTK - U.S. - Massachusetts - Right To Know List RTK - U.S. - Pennsylvania - RTK (Right to Know) List RTK - U.S. - New Jersey - Right to Know Hazardous Substance List				

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2,4-DINITROPHENOL (RING-D3, 98%) (51-28-5 (Unlabeled))
State or local regulations
RTK - U.S. - Massachusetts - Right To Know List RTK - U.S. - Pennsylvania - RTK (Right to Know) List RTK - U.S. - New Jersey - Right to Know Hazardous Substance List
4-NITROPHENOL-RING-D4 (D, 98%) (93951-79-2)
State or local regulations
RTK - U.S. - Massachusetts - Right To Know List RTK - U.S. - Pennsylvania - RTK (Right to Know) List RTK - U.S. - New Jersey - Right to Know Hazardous Substance List
2-NITROPHENOL-RING-D4 (D, 98%) (88-75-5 (Unlabeled))
State or local regulations
RTK - U.S. - Massachusetts - Right To Know List RTK - U.S. - Pennsylvania - RTK (Right to Know) List RTK - U.S. - New Jersey - Right to Know Hazardous Substance List
4-CHLORO-3-METHYLPHENOL (RING-2,6-D2, 98%) (93951-72-5)
State or local regulations
RTK - U.S. - Massachusetts - Right To Know List RTK - U.S. - Pennsylvania - RTK (Right to Know) List RTK - U.S. - New Jersey - Right to Know Hazardous Substance List
4,6-DINITRO-2-METHYLPHENOL (RING-D2, 98%) (93951-76-9)
State or local regulations
RTK - U.S. - Massachusetts - Right To Know List RTK - U.S. - New Jersey - Right to Know Hazardous Substance List RTK - U.S. - Pennsylvania - RTK (Right to Know) List
PENTACHLOROPHENOL (13C6, 99%) (85380-74-1)
State or local regulations
RTK - U.S. - Massachusetts - Right To Know List RTK - U.S. - Pennsylvania - RTK (Right to Know) List RTK - U.S. - New Jersey - Right to Know Hazardous Substance List
BENZENE-D6 (D, 99.5%) (1076-43-3)
State or local regulations
RTK - U.S. - Pennsylvania - RTK (Right to Know) List RTK - 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 Tox. 2 (Dermal)	Acute toxicity (dermal) Category 2
Acute Tox. 2 (Inhalation)	Acute toxicity (inhalation) Category 2
Acute Tox. 2 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 2
Acute Tox. 2 (Oral)	Acute toxicity (oral) Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation)	Acute toxicity (inhalation) Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
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 (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 3	Hazardous to the aquatic environment - Chronic Hazard Category 3

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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
Muta. 1B	Germ cell mutagenicity Category 1B
Muta. 2	Germ cell mutagenicity Category 2
Resp. Sens. 1	Respiratory sensitization, Category 1
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Corr. 1B	Skin corrosion/irritation Category 1B
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 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
H300	Fatal if swallowed
H301	Toxic if swallowed
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H310	Fatal in contact with skin
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
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
H331	Toxic if inhaled
H332	Harmful if inhaled
H334	May cause an allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H340	May cause genetic defects
H341	Suspected of causing genetic defects
H350	May cause cancer
H351	Suspected of causing cancer
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
H412	Harmful to aquatic life with long lasting effects
EUH208	Contains . May produce an allergic reaction
R11	Highly flammable
R20/21	Harmful by inhalation and in contact with skin
R20/21/22	Harmful by inhalation, in contact with skin and if swallowed
R21/22	Harmful in contact with skin and if swallowed
R22	Harmful if swallowed
R23/24/25	Toxic by inhalation, in contact with skin and if swallowed
R24	Toxic in contact with skin
R25	Toxic if swallowed
R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed
R27	Very toxic in contact with skin
R28	Very toxic if swallowed
R35	Causes severe burns
R36	Irritating to eyes
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
R42	May cause sensitization by inhalation
R43	May cause sensitization by skin contact

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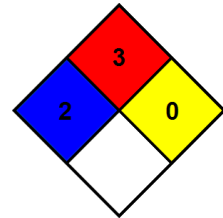
ES-2036

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

R45	May cause cancer
R46	May cause heritable genetic damage
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation
R48/23/24/25	Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed
R48/25	Toxic: danger of serious damage to health by prolonged exposure if swallowed
R49	May cause cancer by inhalation
R50	Very toxic to aquatic organisms
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R65	Harmful: may cause lung damage if swallowed
R68	Possible risk of irreversible effects
C	Corrosive
F	Highly flammable
N	Dangerous for the environment
T	Toxic
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 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