

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: 05/01/2016 Revision date: 25/09/2019 Supersedes: 05/01/2016 Version: 1.1

EM-4173-1

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

1.1. Product identifier

Product form : Mixtures

Product name : LABELED CHLOROPHENOLIC DERIVATIVES MIX FOR METHOD 1653 REV A - VIAL 1

Product code : EM-4173-1

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

1.2.1. Relevant identified uses

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. 3 (Inhalation) H331
Skin Irrit. 2 H315
Eye Irrit. 2A H319
STOT SE 1 H370

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

T; R23/24/25 T; R39/23/24/25 Xi; R36/38

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
Acute Tox. 3 (Inhalation) H331
Skin Irrit. 2 H315
Eye Irrit. 2A H319
STOT SF 1 H370

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

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LABELED CHLOROPHENOLIC DERIVATIVES MIX FOR METHOD 1653

REV A - VIAL 1 EM-4173-1

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2.2. Label elements

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

Hazard pictograms (CLP)

Signal word (CLP)



GHS02





: Danger

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

H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled

H315 - Causes skin irritation H319 - Causes serious eye irritation

H370 - Causes damage to organs (eyes, heart, kidneys, liver, central nervous system) (in

contact with skin, if inhaled, if swallowed)

Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.
P241 - Use explosion-proof electrical equipment
P260 - Do not breathe 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.

GHS-US labeling

Hazard pictograms (GHS-US)







Signal word (GHS-US) : Danger

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

H301+H311+H331 - Toxic if swallowed, in contact with skin or if inhaled

H315 - Causes skin irritation H319 - Causes serious eye irritation

H370 - Causes damage to organs (central nervous system, eyes, heart, liver, kidneys)

(Inhalation, Dermal, oral)

Precautionary statements (GHS-US) : P210 - Keep away from heat, hot surfaces, open flames, sparks. - No smoking.

P233 - Keep container tightly closed.

P240 - Ground/Bond container and receiving equipment P241 - Use explosion-proof electrical equipment

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 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.
P280 - Wear protective clothing, protective gloves.

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 skip with water/shower.

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

P311 - Call a poison center or doctor

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

P361 - Take off immediately all contaminated clothing.

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P362 - Take off contaminated clothing and wash before reuse.

P363 - Wash contaminated clothing before reuse.

P370+P378 - In case of fire: Use Use personal protective equipment as required. to extinguish.

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

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

P405 - Store locked up.

P501 - Dispose of contents/container to Comply with applicable regulations

2.3. Other hazards

No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to Directive 67/548/EEC
100% METHANOL UNLABELED	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X (REACH-no) 01-2119433307-44	99.7477932	F; R11 T; R39/23/24/25 Xi; R36/38
2,4-DICHLOROPHENOL (13C6, 99%)	(CAS-No.) 1202864-83-2 (EC-No.) 204-429-6 (Unlabeled) (EC Index-No.) 604-011-00-7 (Unlabeled)	0.032	T+; R28 T; R24 C; R35 Xi; R41 N; R51/53
4-CHLOROGUAIACOL (RING-13C6, 99%)	(CAS-No.) 16766-30-6 (Unlabeled)	0.032	Xi; R36/37/38
4,5-DICHLOROCATECHOL (13C6, 99%)	(CAS-No.) 3428-24-8 (Unlabeled) (EC-No.) 222-331-1 (Unlabeled)	0.032	Xi; R36/37/38 N; R50
4,5,6-TRICHLOROGUAIACOL (RING-13C6, 99%)	(CAS-No.) 2668-24-8 (Unlabeled)	0.032	Xn; R22 Xi; R36/37/38
PENTACHLOROPHENOL (13C6, 99%)	(CAS-No.) 85380-74-1 (EC-No.) 201-778-6 (Unlabeled) (EC Index-No.) 604-002-00-8 (Unlabeled)	0.032	Xn; R22 R43
3,4,5,6-TETRACHLOROGUAIACOL (13C6, 99%)	(CAS-No.) 2539-17-5 (Unlabeled)	0.032	Xn; R22 Xi; R36/37/38
3,4,5,6-TETRACHLOROCATECHOL MONOHYDRATE (13C6, 99%)	(CAS-No.) 1198-55-6 (Unlabeled)	0.032	Xn; R22 Xi; R41
3,4,5-TRICHLOROPHENOL UNLABELED	(CAS-No.) 609-19-8 (EC-No.) 210-183-0	0.032	Xn; R20/21/22 Xi; R37/38 Xi; R41 N; R50/53
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
100% METHANOL UNLABELED	(CAS-No.) 67-56-1 (EC-No.) 200-659-6 (EC Index-No.) 603-001-00-X (REACH-no) 01-2119433307-44	99.7477932	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapour), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 1, H370
2,4-DICHLOROPHENOL (13C6, 99%)	(CAS-No.) 1202864-83-2 (EC-No.) 204-429-6 (Unlabeled) (EC Index-No.) 604-011-00-7 (Unlabeled)	0.032	Acute Tox. 2 (Oral), H300 Acute Tox. 3 (Dermal), H311 Skin Corr. 1A, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411
4-CHLOROGUAIACOL (RING-13C6, 99%)	(CAS-No.) 16766-30-6 (Unlabeled)	0.032	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
4,5-DICHLOROCATECHOL (13C6, 99%)	(CAS-No.) 3428-24-8 (Unlabeled) (EC-No.) 222-331-1 (Unlabeled)	0.032	Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
4,5,6-TRICHLOROGUAIACOL (RING-13C6, 99%)	(CAS-No.) 2668-24-8 (Unlabeled)	0.032	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
PENTACHLOROPHENOL (13C6, 99%)	(CAS-No.) 85380-74-1 (EC-No.) 201-778-6 (Unlabeled) (EC Index-No.) 604-002-00-8 (Unlabeled)	0.032	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
3,4,5,6-TETRACHLOROGUAIACOL (13C6, 99%)	(CAS-No.) 2539-17-5 (Unlabeled)	0.032	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335
3,4,5,6-TETRACHLOROCATECHOL MONOHYDRATE (13C6, 99%)	(CAS-No.) 1198-55-6 (Unlabeled)	0.032	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
3,4,5-TRICHLOROPHENOL UNLABELED	(CAS-No.) 609-19-8 (EC-No.) 210-183-0	0.032	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

Name	Product identifier	%	GHS-US classification
100% METHANOL UNLABELED	(CAS-No.) 67-56-1	99.7477932	Flam. Liq. 2, H225 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Acute Tox. 3 (Inhalation:vapour), H331 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 1, H370

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

SECTION 4: First aid measures

Description of first aid measures

First-aid measures after inhalation

: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

First-aid measures after eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes.

Most important symptoms and effects, both acute and delayed

Symptoms/effects after skin contact

: Repeated exposure to this material can result in absorption through skin causing significant

health hazard. Toxic in contact with skin. Causes skin irritation.

Symptoms/effects after ingestion

Toxic if swallowed. Swallowing a small quantity of this material will result in serious health

hazard.

Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

Extinguishing media

No additional information available

5.2. Special hazards arising from the substance or mixture

: Highly flammable liquid and vapor. Fire hazard

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

Advice for firefighters

No additional information available

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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

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

No additional information available

6.3. Methods and material for containment and cleaning up

No additional information available

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.

7.2. Conditions for safe storage, including any incompatibilities

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

2,4-DICHLOROPHENOL (130	6, 99%) (1202864-83-2)	
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)
PENTACHLOROPHENOL (13	3C6, 99%) (85380-74-1)	
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m³)	0.5 mg/m³ 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/m³)	0.5 mg/m³ Skin designation
100% METHANOL UNLABEL	ED (67-56-1)	
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)	200.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	ACGIH STEL (ppm)	250 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	Remark (ACGIH)	Headache. Nausea. Dizziness. Eye damage. Substances for which there is a Biological Exposure Index or Indices (see BEI section). Danger of cutaneous absorption.
USA NIOSH	NIOSH REL (TWA) (mg/m³)	260 mg/m³ Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TWA) (ppm)	200 ppm Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (mg/m³)	325 mg/m³ Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (STEL) (ppm)	250 ppm Basis: NIOSH Recommended Exposure Limits
USA NIOSH	Remark (NIOSH)	Potential for dermal absorption.

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100% METHANOL UNLABELED (67-56-1)		
USA OSHA	OSHA PEL (TWA) (mg/m³)	260 mg/m³ Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (TWA) (ppm)	200 ppm Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (STEL) (mg/m³)	325 mg/m³ Basis: USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (STEL) (ppm)	250 ppm Basis: USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000. California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	OSHA PEL (Ceiling) (ppm)	1000 ppm California permissible exposure limits for chemical contaminants (Title 8, Article 107)
USA OSHA	Remark (OSHA)	The value in mg/m3 is approximate. Skin notation.

8.2. Exposure controls

Hand protection : protective gloves.

Skin and body protection : Wear suitable protective clothing.

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

recommended.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Color : No data available Odor : No data available Odor threshold No data available рΗ No data available Relative evaporation rate (butyl acetate=1) : No data available Melting point : No data available Freezing point No data available Boiling point No data available Flash point : No data available : No data available Auto-ignition temperature Decomposition temperature No data available

Flammability (solid, gas) : Highly flammable liquid and vapor

Vapor pressure : No data available Relative vapor density at 20 °C : No data available Relative density No data available Solubility No data available Log Pow : No data available Log Kow No data available Viscosity, kinematic No data available : No data available Viscosity, dynamic Explosive properties : No data available : No data available Oxidizing properties **Explosion limits** : No data available

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

See storage and expiration date on CoA.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Open flame. Direct sunlight.

10.5. Incompatible materials

No additional information available

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: Toxic if inhaled.

LABELED CHLOROPHENOLIC DERIVATIVES MIX FOR METHOD 1653 REV A - VIAL 1	
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	300.000 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

2,4-DICHLOROPHENOL (13C6, 99%) (1202864-83-2)	
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

4,5,6-TRICHLOROGUAIACOL (RING-13C6, 99%) (2668-24-8 (Unlabeled))	
LD50 oral rat	2980 mg/kg
ATE CLP (oral)	500.000 mg/kg body weight

PENTACHLOROPHENOL (13C6, 99%) (85380-74-1)	
LD50 oral rat	27 mg/kg Remarks: Vascular:BP elevation not charactertized 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

3,4,5,6-TETRACHLOROGUAIACOL (13C6, 99%) (2539-17-5 (Unlabeled))	
LD50 oral rat	1690 - 4004 mg/kg
ATE CLP (oral)	1690.000 mg/kg body weight

3,4,5,6-TETRACHLOROCATECHOL MONOHYDRATE (13C6, 99%) (1198-55-6 (Unlabeled))

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3,4,5-TRICHLOROPHENOL UNLABELED (609-19-8)	
LD50 oral rat	372 mg/kg LD50 Intraperitoneal - rat
ATE CLP (oral)	372.000 mg/kg body weight
ATE CLP (dermal)	1100.000 mg/kg body weight
ATE CLP (gases)	4500.000 ppmV/4h
ATE CLP (vapors)	11.000 mg/l/4h

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3,4,5-TRICHLOROPHENOL UNLABELED (609-19-8)		
ATE CLP (dust, mist) 1.500 mg/l/4h		
100% METHANOL UNLABELED (67-56-1)		
LD50 oral rat	1187 - 2769 mg/kg	
LD50 dermal rabbit	17100 mg/kg	
LC50 inhalation rat (mg/l)	128.2 mg/l/4h ; 87.6 mg/l - 6 h	
ATE CLP (oral)	100.000 mg/kg body weight	
ATE CLP (dermal)	300.000 mg/kg body weight	
ATE CLP (vapors)	3.000 mg/l/4h	
ATE CLP (dust, mist)	128.200 mg/l/4h	
LDLO, oral, human	143 mg/kg Remarks: Lungs, Thorax, or Respiration: Dyspnea. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Not classified	
Specific target organ toxicity – single exposure	: Causes damage to organs (eyes, heart, kidneys, liver, central nervous system) (in contact with skin, if inhaled, if swallowed).	
Specific target organ toxicity – repeated exposure	: Not classified	
Aspiration hazard	: Not classified	
Potential Adverse human health effects and symptoms	: Toxic if swallowed. Toxic in contact with skin.	
Symptoms/effects after skin contact	: Repeated exposure to this material can result in absorption through skin causing significant health hazard. Toxic in contact with skin. Causes skin irritation.	
Symptoms/effects after ingestion	: Toxic if swallowed. Swallowing a small quantity of this material will result in serious health	

hazard.

SECTION 12: Ecological information

12.1. Toxicity

12.1. TOXICITY			
2,4-DICHLOROPHENOL (13C6, 99%) (1202864	2,4-DICHLOROPHENOL (13C6, 99%) (1202864-83-2)		
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		
4,5-DICHLOROCATECHOL (13C6, 99%) (3428-24-8 (Unlabeled))			
LC50 fish 1	0.89 mg/l Pimephales promelas (Fathead minnow) - 96 h		
EC50 Daphnia 1	6.64 mg/l Daphnia magna (Water flea) - 24 h		
ErC50 (algae)	0.45 mg/l Growth inhibition Pseudokirchneriella subcapitata - 96 h		
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		
3,4,5,6-TETRACHLOROCATECHOL MONOHYDRATE (13C6, 99%) (1198-55-6 (Unlabeled))			
LC50 fish 1	1.27 mg/l Pimephales promelas (fathead minnow) - 96 h		
EC50 Daphnia 1	2.23 mg/l Daphnia magna (Water flea) - 24 h		
ErC50 (algae)	0.08 mg/l Pseudokirchneriella subcapitata - 96 h		

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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

2,4-DICHLOROPHENOL (13C6, 99%) (1202864-83-2) Persistence and degradability No data available. 4-CHLOROGUAIACOL (RING-13C6, 99%) (16766-30-6 (Unlabeled)) Persistence and degradability Not available. 4,5-DICHLOROCATECHOL (13C6, 99%) (3428-24-8 (Unlabeled)) Persistence and degradability Not available. PENTACHLOROPHENOL (13C6, 99%) (85380-74-1) Persistence and degradability Not available. Biodegradation 99 % Biodegradable 3,4,5,6-TETRACHLOROGUAIACOL (13C6, 99%) (2539-17-5 (Unlabeled)) Persistence and degradability Not available. 3,4,5,6-TETRACHLOROCATECHOL MONOHYDRATE (13C6, 99%) (1198-55-6 (Unlabeled)) Persistence and degradability Not available. 100% METHANOL UNLABELED (67-56-1) Biochemical oxygen demand (BOD) 600 - 1200 mg/g Chemical oxygen demand (COD) 1420 mg/g ThOD 1500 mg/g Biodegradation 72 % - rapidly biodegradable aerobic - Exposure time 5 d	3,4,5-TRICHLOROPHENOL UNLABELED (609-19-8)		
	EC50 other aquatic organisms 1	0.68 mg/l Daphnia magna (Water flea) - 48h	
ECS0 Dephnia	100% METHANOL UNLABELED (67-56-1)		
ECSD Daphnia 2 2000 mg/l Growth inhibition ECSO - Scenedesmus capricomutum (fresh water algae) - 96 h NOEC (acute) 700 mg/l Gryzias latipes - 200 h 700 mg/l Gryzias latipes	LC50 fish 1	15400 mg/l mortality LC50 - Lepomis machrochirus (Bluegill) - 96 h	
NOEC (acute) 7900 mg/l Onyzias latipes - 200 h	EC50 Daphnia 1	> 10000 mg/l Daphnia magna (Water flea) - 48 h	
12.2. Persistence and degradability 2.4-DICHLOROPHENOL (13C6, 99%) (1202864-83-2) Persistence and degradability No data available. 4.5-DICHLOROCATECHOL (13C6, 99%) (3428-24-8 (Unlabeled)) Persistence and degradability Not available. 4.5-DICHLOROCATECHOL (13C6, 99%) (3428-24-8 (Unlabeled)) Persistence and degradability Not available. PERTACHLOROPHENOL (13C6, 99%) (35380-74-1) Persistence and degradability Not available. PERTACHLOROPHENOL (13C6, 99%) (85380-74-1) Persistence and degradability Not available. PERTACHLOROGUAIACOL (13C6, 99%) (2539-17-5 (Unlabeled)) Persistence and degradability Not available. 3.4.5.6-TETRACHLOROGUAIACOL (13C6, 99%) (2539-17-5 (Unlabeled)) Persistence and degradability Not available. 3.4.5.6-TETRACHLOROCATECHOL MONOHYDRATE (13C6, 99%) (1198-55-6 (Unlabeled)) Persistence and degradability Not available. 100% METHANOL UNLABELED (67-56-1) Biochemical oxygen demand (COD) 1200 mg/g Chemical oxygen demand (COD) 1420 mg/g Diodegradation 72 % - rapidly biodegradabile aerobic - Exposure time 5 d 12.3. Bioaccumulative potential 2.4-DICHLOROPHENOL (13C6, 99%) (1202864-83-2) BOF fish 1 8 mg/l Carassius auratus (goldfish) - 24 h Bioconcentration factor (BCF REACH) 34 4.5-DICHLOROCATECHOL (13C6, 99%) (85380-74-1) BOEC fish 1 0.0012 mg/l Oncorhynchus mykiss (rainbow trout) - 144 h Bioconcentration factor (BCF REACH) 482 Log Pow 5.12 3.4,5-FTERACHLOROGUAIACOL (13C6, 99%) (85380-74-1) BOEC fish 1 0.0012 mg/l Oncorhynchus mykiss (rainbow trout) - 144 h Bioconcentration factor (BCF REACH) Not available. Not available. Not available. Not available. Not available. 1.4-DICHLOROPHENOL UNLABELED (67-56-1) Bioconcentration factor (BCF REACH) 1 0.0012 mg/l Oncorhynchus mykiss (rainbow trout) - 144 h Bioconcentration factor (BCF REACH) 1 0.0012 mg/l Oncorhynchus mykiss (rainbow trout) - 144 h Bioconcentration factor (BCF REACH) 1 0.0012 mg/l Oncorhynchus mykiss (rainbow trout) - 144 h Bioconcentration factor (BCF REACH) 1 0.0012 mg/l Oncorhynchus mykiss (rainb	EC50 Daphnia 2	22000 mg/l Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) - 96 h	
2.4-DICHLOROPHENOL (13C6, 99%) (1202864-83-2) Persistence and degradability No data available. 4.6-DICNEOUALCOL (RING-13C6, 99%) (428-24-8 (Unlabeled)) Persistence and degradability Not available. 4.6-DICHLOROCATECHOL (13C6, 99%) (8380-74-1) Persistence and degradability Not available. PENTACHLOROPHENOL (13C6, 99%) (85380-74-1) Persistence and degradability Not available. PENTACHLOROPHENOL (13C6, 99%) (85380-74-1) Persistence and degradability Not available. Biodegradation 99 % Biodegradabile 3.4.5.6-TETRACHLOROGUAIACOL (13C6, 99%) (2539-17-5 (Unlabeled)) Persistence and degradability Not available. 3.4.5.6-TETRACHLOROCATECHOL MONOHYDRATE (13C6, 99%) (1198-55-6 (Unlabeled)) Persistence and degradability Not available. 100% METHANOL UNLABELED (67-58-1) Biochemical oxygen demand (BCD) 600 - 1200 mg/g Chemical oxygen demand (BCD) 1200 mg/g Diodegradation 72 % - rapidly biodegradabile aerobic - Exposure time 5 d 12.3. Bioaccumulative potential 2.4-DICHLOROPHENOL (13C6, 99%) (1202864-83-2) BOF fish 1 3 mg/l Carassius auratus (goldfish) - 24 h Bioconcentration factor (BCF REACH) 34 Log Pow 3.065 Bioaccumulative potential Not available. PENTACHLOROPHENOL (13C6, 99%) (85380-74-1) Bioconcentration factor (BCF REACH) 482 Log Pow 5.12 3.4,5.6-TETRACHLOROGUAIACOL (RING-13C6, 99%) (85380-74-1) Bioconcentration factor (BCF REACH) 482 Log Pow 5.12 3.4,5.6-TETRACHLOROGUAIACOL (RING-13C6, 99%) (85380-74-1) Bioconcentration factor (BCF REACH) 482 Log Pow 5.12 3.4,5.6-TETRACHLOROGUAIACOL (RING-13C6, 99%) (85380-74-1) Bioconcentration factor (BCF REACH) 5.12 Bioconcentration factor (BCF REACH) 7.12 Bioconcentration fact	NOEC (acute)	7900 mg/l Oryzias latipes - 200 h	
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Biodegradation 99 % Biodegradable 3,4,5,6-TETRACHLOROGUAIACOL (13C6, 99%) (2539-17-5 (Unlabeled)) Persistence and degradability Not available. 3,4,5,6-TETRACHLOROCATECHOL MONOHYDRATE (13C6, 99%) (1198-55-6 (Unlabeled)) Persistence and degradability Not available. 100% METHANOL UNLABELED (67-56-1) Biochemical oxygen demand (BOD) 600 - 1200 mg/g Chemical oxygen demand (BOD) 1500 mg/g Chemical oxygen demand (COD) 1420 mg/g ThOD 1500 mg/g Biodegradation 72 % - rapidly biodegradable aerobic - Exposure time 5 d 12.3. Bioaccumulative potential 2,4-DICHLOROPHENOL (13C6, 99%) (1202864-83-2) BCF fish 1 8 mg/ Carassius auratus (goldfish) - 24 h Bioconcentration factor (BCF REACH) 34 Log Pow 3.065 4-CHLOROGUAIACOL (RING-13C6, 99%) (1606-63-0-6 (Unlabeled)) Bioaccumulative potential Not available. 4,5-DICHLOROCATECHOL (13C6, 99%) (85380-71) BCF fish 1 0.0912 mg/l Oncorhynchus mykiss (rainbow trout) - 144 h Bioconcentration factor (BCF REACH) 482 Log Pow 5.12 3,4,5-FETRACHLOROGUAIACOL (13C6, 99%) (85380-71) BCF fish 1 0.0912 mg/l Oncorhynchus mykiss (rainbow trout) - 144 h Bioconcentration factor (BCF REACH) 482 Log Pow 3.774 100% METHANOL UNLABELED (67-56-1) BCF fish 1 5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C Bioconcentration factor (BCF REACH) 1 BCF fish 1 5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C Bioconcentration factor (BCF REACH) 1 Bioconc	. , , , ,	•	
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12.4. Mobility in soil 2,4-DICHLOROPHENOL (13C6, 99%) (1202864-83-2)	Bioconcentration factor (BCF REACH)	1	
2,4-DICHLOROPHENOL (13C6, 99%) (1202864-83-2)	Log Pow	-0.77	
2,4-DICHLOROPHENOL (13C6, 99%) (1202864-83-2)	•		
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140 data available.	, , , , , ,	·	
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4-CHLOROGUAIACOL (RING-13C6, 99%) (167	66-30-6 (Unlabeled))
Ecology - soil	Not available.

4,5-DICHLOROCATECHOL (13C6, 99%) (3428-24-8 (Unlabeled))

Not available. Ecology - soil

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

Ecology - soil Not available.

3,4,5,6-TETRACHLOROGUAIACOL (13C6, 99%) (2539-17-5 (Unlabeled))

Ecology - soil Not available

3,4,5,6-TETRACHLOROCATECHOL MONOHYDRATE (13C6, 99%) (1198-55-6 (Unlabeled))

Ecology - soil Not available.

100% METHANOL UNLABELED (67-56-1)

Not degradable in the soil. Ecology - soil

Results of PBT and vPvB assessment 12.5.

100% METHANOL UNLABELED (67-56-1)

PBT: not relevant - no registration required

Other adverse effects

No additional information available

SECTION 13: Disposal considerations

Waste treatment methods

Product/Packaging disposal recommendations : Dispose of contents/container to hazardous or special waste collection point, in accordance

with local, regional, national and/or international regulation.

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

Ecology - waste materials : Hazardous waste due to toxicity.

SECTION 14: Transport information

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

UN number 14.1.

UN-No.(DOT) 1230 DOT NA no. UN1230

14.2. **UN proper shipping name**

Proper Shipping Name (DOT) : Methanol

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

Hazard labels (DOT) 3 - Flammable liquid



DOT Symbols : D - Proper shipping name for domestic use only, or to and from Canada

: II - Medium Danger Packing group (DOT)

IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite DOT Special Provisions (49 CFR 172.102)

(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)
TP2 - a. The maximum degree of filling must not exceed the degree of filling determined by the following: (image) Where: tr is the maximum mean bulk temperature during transport, tf is the temperature in degrees celsius of the liquid during filling, and a is the mean coefficient of cubical expansion of the liquid between the mean temperature of the liquid during filling (tf) and the maximum mean bulk temperature during transportation (tr) both in degrees celsius. b. For liquids transported under ambient conditions may be calculated using the formula: (image) Where: d15 and d50 are the densities (in units of mass per unit volume) of the liquid at 15 C (59 F) and 50 C (122 F), respectively.

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

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14.3. **Additional information**

Other information : No supplementary information available.

Overland transport

: II Packing group (ADR)

Class (ADR) : 3 - Flammable liquid

EM-4173-1

Hazard identification number (Kemler No.) Classification code (ADR) : FT1

Hazard labels (ADR) : 3 - Flammable liquids

6.1 - Toxic substances



Orange plates

336

Tunnel restriction code (ADR) : D/E Limited quantities (ADR) 11 **EAC** •2WE APP : A(fl) Excepted quantities (ADR) : E2

Transport by sea

: B - (i) The material may be stowed "on deck" or "under deck" on a cargo vessel and on a **DOT Vessel Stowage Location**

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

DOT Vessel Stowage Other : 40 - Stow "clear of living quarters"

MFAG-No : 131

Air transport

DOT Quantity Limitations Passenger aircraft/rail : 1 L

(49 CFR 173.27)

DOT Quantity Limitations Cargo aircraft only (49 : 60 L

CFR 175.75)

Civil Aeronautics Law : Flammable liquids

Environmental hazards 14.4.

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

100% METHANOL UNLABELED (67-56-1)	
Listed on the United States TSCA (Toxic Substances Control Act) inventory	
CERCLA RQ	5000 lb
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	Subject to reporting requirements of United States SARA Section 313

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15.2. International regulations

CANADA

100% METHANOL UNLABELED (67-56-1)

Listed on the Canadian DSL (Domestic Substances List)

15.2.1. National regulations

No additional information available

15.3. US State regulations

LABELED CHLOROPHENOLIC DERIVATIVES MIX FOR METHOD 1653 REV A - VIAL 1()		
U.S California - Proposition 65 - Carcinogens List	No	
U.S California - Proposition 65 - Developmental Toxicity	No	
U.S California - Proposition 65 - Reproductive Toxicity - Female	No	
U.S California - Proposition 65 - Reproductive Toxicity - Male	No	

100% METHANOL UNLABE	ELED (67-56-1)			
U.S California - Proposition 65 -	No significant risk level (NSRL)			
Carcinogens List	Developmental Toxicity	Reproductive Toxicity - Female	Reproductive Toxicity - Male	(12.12)
No	Yes	No	No	

100% METHANOL UNLABELED (67-56-1)

State or local regulations

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

SECTION 16: Other information

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

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Acute Tox. 2 (Inhalation)	Acute toxicity (inhalation) 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:vapour)	Acute toxicity (inhalation:vapour) 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 (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
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
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H225	Highly flammable liquid and vapor

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H300	Fatal if swallowed
H301	Toxic if swallowed
H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H331	Toxic if inhaled
H332	Harmful if inhaled
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H370	Causes damage to organs
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
R11	Highly flammable
R20/21/22	Harmful by inhalation, 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
R28	Very toxic if swallowed
R35	Causes severe burns
R36/37/38	Irritating to eyes, respiratory system and skin
R36/38	Irritating to eyes and skin
R37/38	Irritating to respiratory system and skin
R39/23/24/25	Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed
R41	Risk of serious damage to eyes
R43	May cause sensitization by skin contact
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
С	Corrosive
F	Highly flammable
N	Dangerous for the environment
Т	Toxic
T+	Very toxic
Xi	Irritant
Xn	Harmful

Hazard Rating

CIL Mixture SDS

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

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