

### 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: 08/09/2016 Revision date: 31/07/2018 Supersedes: 08/09/2016 Version: 1.1

ULM-7525-S

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

1.1. Product identifier

Product form : Mixtures

Product name : 2,4,5-TRICHLOROPHENOL UNLABELED 100 UG/ML IN METHANOL

Product code : ULM-7525-S

#### 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. 3 (Inhalation) H331
Skin Irrit. 2 H315
Eye Irrit. 2 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 Xi; R36/38 T; R23/24 T; R39/25

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 SE 1 H370

Full text of H statements : see section 16

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#### Adverse physicochemical, human health and environmental effects

No additional information available

#### **Label elements**

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

Hazard pictograms (CLP)



GHS02





Signal word (CLP) : Danger

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

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 (brain, heart, kidneys, liver, eyes) (in contact with skin, if

inhaled, if swallowed)

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

smoking

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

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

P260 - Do not breathe dust, fume, gas, mist, spray, vapors. P264 - Wash 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.

P307+P311 - IF exposed: Call a POISON CENTER or doctor/physician.

### **GHS-US** labeling

Hazard pictograms (GHS-US)







Signal word (GHS-US) : Danger

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

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 (brain, heart, kidneys, liver, eyes) (Dermal, Inhalation, 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, lighting, ventilating equipment

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge. P260 - Do not breathe dust, gas, fume, spray, mist, 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 eye protection, face protection, 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 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.

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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.

P362 - Take off contaminated clothing and wash 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+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

#### Other hazards

PBT: not relevant - no registration required

#### **SECTION 3: Composition/Information on ingredients**

#### **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	99.987359	F; R11 T; R39/23/24/25 Xi; R36/38
2,4,5-TRICHLOROPHENOL UNLABELED	(CAS-No.) 95-95-4 (EC-No.) 202-467-8 (EC Index-No.) 604-017-00-X	0.013	Xi; R36 N; R50/53 Xi; R38 Xn; R22
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	99.987359	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
2,4,5-TRICHLOROPHENOL UNLABELED	(CAS-No.) 95-95-4 (EC-No.) 202-467-8 (EC Index-No.) 604-017-00-X	0.013	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Name	Product identifier	%	GHS-US classification
100% METHANOL UNLABELED	(CAS-No.) 67-56-1	99.987359	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**

First-aid measures after skin contact

First-aid measures after eye contact

## **Description of first aid measures**

First-aid measures general : If medical advice is needed, have product container or label at hand. Call a physician immediately. Evacuate danger area.

Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial First-aid measures after inhalation respiration. Call a doctor.

> Rinse skin with water/shower. Take immediately victim to hospital. Remove/Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.

Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth. Call a physician immediately.

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#### Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation : Toxic if inhaled.

Symptoms/effects after skin contact Toxic in contact with skin. Causes skin irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : Toxic if swallowed.

#### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### **SECTION 5: Firefighting measures**

#### **Extinguishing media**

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

#### Special hazards arising from the substance or mixture

Fire hazard : Highly flammable liquid and vapour.

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

Reactivity : Vapors may form flammable mixture with air. Highly flammable liquid and vapour.

#### **Advice for firefighters**

Firefighting instructions : Wear self contained breathing apparatus for fire fighting if necessary.

: Do not enter fire area without proper protective equipment, including respiratory protection. Protection during firefighting

#### **SECTION 6: Accidental release measures**

#### 6.1. Personal precautions, protective equipment and emergency procedures

#### 6.1.1. For non-emergency personnel

**Emergency procedures** 

: Wear respiratory protection. Do not breathe dust, mist, gas, spray, vapors, fume. Avoid contact with skin, eyes and clothing. Ventilate spillage area. Remove all sources of ignition. No open flames, no sparks, and no smoking. Ensure adequate air ventilation. 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".

#### **Environmental precautions**

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses. Avoid release to the environment.

#### Methods and material for containment and cleaning up

For containment : Dike and contain spill.

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

waters. This material and its container must be disposed of in a safe way, and as per local

legislation.

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

#### Reference to other sections

For further information refer to section 13.

### **SECTION 7: Handling and storage**

#### Precautions for safe handling

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

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

Hygiene measures Do not eat, drink or smoke when using this product. Wash Both hands thoroughly after

handling.

#### Conditions for safe storage, including any incompatibilities

Technical measures : Keep container tightly closed in a cool, dry and well-ventilated place.

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

Incompatible materials : Heat sources.

#### Specific end use(s)

No additional information available

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SECTION 8: Exposure controls/personal protection			
8.1. Control parameters			
2,4,5-TRICHLOROPHENOL UNLABELED 100 UG/ML IN METHANOL			
Italy - Portugal - USA ACGIH	ACGIH TWA (pp		200.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	ACGIH STEL (p	pm)	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.
100% METHANOL UNLABEL	.ED (67-56-1)		
Italy - Portugal - USA ACGIH	ACGIH TWA (pp	om)	200.00000000 ppm Basis: USA. ACGIH Threshold Limit Values (TLV)
Italy - Portugal - USA ACGIH	ACGIH STEL (p	pm)	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 (TV	/A) (mg/m³)	260 mg/m³ Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TV	/A) (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.
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.
2,4,5-TRICHLOROPHENOL UNLABELED 100 UG/ML IN METHANOL			
DNEL/DMEL (Workers)			
Acute - systemic effects, dermal 40 mg/kg bodyweight/day			
Acute - systemic effects, inhalation		260 mg/m³	
Acute - local effects, dermal		260 mg/cm <sup>2</sup>	
Long-term - systemic effects, of	dermal	40 mg/kg bodyweight/day	
Long-term - local effects, derm		260 mg/cm <sup>2</sup>	
Long term local effects inhelation		260 mg/m3	

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260 mg/m<sup>3</sup>

50 mg/m<sup>3</sup>

50 mg/m<sup>3</sup>

8 mg/kg body weight

8 mg/kg body weight

Long-term - local effects, inhalation DNEL/DMEL (General population)

Acute - systemic effects, dermal Acute - systemic effects, inhalation

Acute - systemic effects, oral

Acute - local effects, inhalation

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2,4,5-TRICHLOROPHENOL UNLABELED 100	UG/ML IN METHANOL
Long-term - systemic effects,oral	8 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	50 mg/m³
Long-term - systemic effects, dermal	8 mg/kg bodyweight/day
Long-term - local effects, inhalation	50 mg/m³
PNEC (Water)	
PNEC aqua (freshwater)	154 mg/l
PNEC aqua (marine water)	15.4 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	570.4 mg/kg dwt
PNEC (Soil)	
PNEC soil	23.5 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	100 mg/kg

#### **Exposure controls**

: Wash hands and other exposed areas with mild soap and water before eating, drinking or Appropriate engineering controls

smoking and when leaving work.

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









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

Eye protection Wear eye protection. Chemical goggles or face shield with safety glasses.

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

Respiratory protection : In case of inadequate ventilation wear respiratory protection. Approved supplied air respirator.

Environmental exposure controls : Avoid release to the environment.

## **SECTION 9: Physical and chemical properties**

# 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 : 32.04 g/mol Molecular mass : Colorless Color Odor : Pungent

: No data available Odor threshold : No data available рΗ Relative evaporation rate (butyl acetate=1) : No data available : -98 °C (-144 °F) Melting point Freezing point : No data available : 64.7 °C (148.5 °F) Boiling point

Flash point : 9.7 °C (49.5 °F) - closed cup

: 455 °C (851 °F) at 1,013 hPa (760 mmHg) Auto-ignition temperature

Decomposition temperature : No data available Flammability (solid, gas) : No data available

: 130.3 hPa (97.7 mmHg) at 20 °C (68 °F); 169.27 hPa (126.96 mmHg) at 25 °C (77 °F) Vapor pressure

: 546.6 hPa (410 mmHg) at 50 °C (122 °F) Vapor pressure at 50 °C

Relative vapor density at 20 °C : 1.11

Relative density : No data available

Specific gravity / density : 0.791 g/ml at 25 °C (77 °F) Solubility : Water: Completely miscible

Log Pow : -0.77

Log Kow : No data available Viscosity, kinematic : No data available

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Viscosity, dynamic : No data available Explosive properties : Product is not explosive.

Oxidizing properties : Non oxidizing material according to EC criteria.

**Explosion limits** : 6 - 36 % (V)

#### Other information

No additional information available

## **SECTION 10: Stability and reactivity**

#### Reactivity

Vapors may form flammable mixture with air. Highly flammable liquid and vapour.

#### 10.2. **Chemical stability**

See storage and expiration date on CoA.

#### Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

#### **Conditions to avoid**

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

#### Incompatible materials

Acid anhydrides. Acid chlorides. Oxidizing agent. Alkali Metal Amides. Reducing agents. Acids.

#### **Hazardous decomposition products** 10.6.

Carbon oxides (CO, CO2).

Carcinogenicity

#### **SECTION 11: Toxicological information**

#### Information on toxicological effects

Acute toxicity : Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation: Toxic if inhaled.

2,4,5-TRICHLOROPHENOL UNLABELED 100 UG/ML IN METHANOL	
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.

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2,4,5-TRICHEOROFHEROL GREADELED (95-95-4)	
LD50 oral rat	820 mg/kg
ATE CLP (oral)	820.000 mg/kg body weight

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 : Skin - Rabbit. Result: No skin irritation Serious eye damage/irritation : Eyes - Rabbit. Result: No eye irritation

Respiratory or skin sensitization : Maximisation Test . Guinea pig. Did not cause sensitization. (OECD 406 method) Germ cell mutagenicity : AMES test : S. tymphimurium. Result: negative. fibroblast. Result: Negative. Mutation in

mammalian somatic cells. Mutagenicity (in vivo mammalian bone-marrow cystogenetic test, chromosomal analysis) - Mouse - male and female Result: negative. Mouse - male and

female. Result: Negative

: Damage to fetus not classifiable. Fertility classification not possible from current data. Reproductive toxicity

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Specific target organ toxicity - single exposure : Causes damage to organs through prolonged or repeated exposure

Causes damage to organs

Specific target organ toxicity - repeated

exposure

: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

No data available

No aspiration toxicity classification. Aspiration hazard

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. Effects due to Ingestion may include: Headache. Dizziness. Drowsiness. metabolic acidosis. Coma. May be fatal if swallowed and enters airways. If swallowed there is a risk of blindness. Effects on humans.

stomach.

Symptoms/effects after inhalation Toxic if inhaled.

Symptoms/effects after skin contact Toxic in contact with skin. Causes skin irritation.

: Causes serious eye irritation. Symptoms/effects after eye contact

Symptoms/effects after ingestion : Toxic if swallowed.

#### **SECTION 12: Ecological information**

#### **Toxicity**

Ecology - general

: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

2,4,5-TRICHLOROPHENOL UNLABELED 100 UG/ML IN METHANOL	
LC50 fish 1	15400 mg/l mortality LC50 - Lepomis machrochirus (Bluegill) - 96 h
EC50 Daphnia 1	> 10000 mg/l Daphnia magna (Water flea) - 48 h
EC50 Daphnia 2	22000 mg/l Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) - 96 h
NOEC (acute)	7900 mg/l Oryzias latipes - 200 h
2,4,5-TRICHLOROPHENOL UNLABELED (95-95-4)	
LC50 fish 1	0.274 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 Daphnia 1	0.9 mg/l Immobilization Daphnia magna (Water flea) - 48 h
NOEC (acute)	1 mg/l NOEC - Cyprinodon variegatus (sheepshead minnow) - 96.0 h
100% METHANOL UNLABELED (67-56-1)	
LC50 fish 1	15400 mg/l mortality LC50 - Lepomis machrochirus (Bluegill) - 96 h
EC50 Daphnia 1	> 10000 mg/l Daphnia magna (Water flea) - 48 h
EC50 Daphnia 2	22000 mg/l Growth inhibition EC50 - Scenedesmus capricornutum (fresh water algae) - 96 h
NOEC (acute)	7900 mg/l Oryzias latipes - 200 h

#### Persistence and degradability 12.2.

2.4.5 TRICHI OROBUENOL LINI ARELED (05.05.4)

2,4,5-TRICHLOROPHENOL UNLABELED 100 UG/ML IN METHANOL	
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

2,4,5-TRICHEOROFHEROL UNLABELED (95-95-4)	
Persistence and degradability	No data 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

#### 12.3 **Bioaccumulative potential**

2,4,5-TRICHLOROPHENOL UNLABELED 100 UG/ML IN METHANOL	
BCF fish 1	5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C
Bioconcentration factor (BCF REACH)	1
Log Pow	-0.77

2,4,5-TRICHLOROPHENOL UNLABELED (95-95-4)		5-4)
	BCF fish 1	0.0048 mg/l Pimephales promelas (fathead minnow) - 28 d
	Bioconcentration factor (BCF REACH)	1900

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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	
Log Pow	-0.77	

#### 12.4. Mobility in soil

2,4,5-TRICHLOROPHENOL UNLABELED 100 UG/ML IN METHANOL		
	Ecology - soil	Not degradable in the soil.

#### 2,4,5-TRICHLOROPHENOL UNLABELED (95-95-4)

Ecology - soil No data available

#### 100% METHANOL UNLABELED (67-56-1)

Ecology - soil Not degradable in the soil.

#### Results of PBT and vPvB assessment

#### 2,4,5-TRICHLOROPHENOL UNLABELED 100 UG/ML IN METHANOL

PBT: not relevant - no registration required

#### 100% METHANOL UNLABELED (67-56-1)

PBT: not relevant - no registration required

#### Other adverse effects

Other adverse effects : Avoid release to the environment.

Other information Stability in water: at 19 °C - (83 - 91%) - 72 h. Remarks: Hydrolyses on contact with water.

Hydrolyses readily.

#### SECTION 13: Disposal considerations

#### Waste treatment methods

: Dispose of contents/container to Comply with applicable regulations. Product/Packaging disposal recommendations

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

: Hazardous waste due to toxicity. Ecology - waste materials

#### **SECTION 14: Transport information**

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

### **UN** number

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

#### 14.2. **UN** proper shipping name

Proper Shipping Name (DOT) : Methanol

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

Hazard labels (DOT) : 3 - Flammable liquid

6.1 - Poison





**DOT Symbols** + - Fixes (cannot be altered) proper shipping name, hazard class, and packing group,I - Proper

shipping name appropriate for international and domestic transportation

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.

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

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DOT Packaging Bulk (49 CFR 173.xxx) : 242

#### **Additional information**

Other information : No supplementary information available.

#### **Overland transport**

Packing group (ADR) : 11

Class (ADR) : 3 - Flammable liquid

Hazard identification number (Kemler No.) : 336 Classification code (ADR) : FT1

Hazard labels (ADR) : 3 - Flammable liquids

6.1 - Toxic substances



Orange plates

230

: D/E Tunnel restriction code (ADR) 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

section is exceeded.

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

#### 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

2,4,5-TRICHLOROPHENOL UNLABELED 100 U	JG/ML IN METHANOL			
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			

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2,4,5-TRICHLOROPHENOL UNLABELED 100 UG/ML IN METHANOL				
SARA Section 313 - Emission Reporting	Subject to reporting requirements of United States SARA Section 313			
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			

#### 15.2. International regulations

#### **CANADA**

#### 2,4,5-TRICHLOROPHENOL UNLABELED 100 UG/ML IN METHANOL

Listed on the Canadian DSL (Domestic Substances List)

#### 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

2,4,5-TRICHLOROPHENOL UNLABELED 100 UG/ML	IN METHANOL
U.S California - Proposition 65 - Carcinogens List	No
U.S California - Proposition 65 - Developmental Toxicity	Yes
U.S California - Proposition 65 - Reproductive Toxicity - Female	No
U.S California - Proposition 65 - Reproductive Toxicity - Male	No
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

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

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.

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

if swallowed
ment
ment
ment
nment
nment
if swa

NFPA health hazard

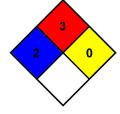
2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard

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

NFPA reactivity

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



#### **Hazard Rating**

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

Flammability : 3 Serious Hazard Physical : 0 Minimal Hazard

#### **CIL Mixture SDS**

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

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