

O-TOLUIDINE (D9, 98%) 2 MG/ML IN METHANOL

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: 18/04/2017 Revision date: 23/07/2018 Supersedes: 05/06/2018 Version: 1.2

DLM-3330-S

SECTION 1: Identification of the substance/mixture and of the company/undertaking **Product identifier** 1.1. Product form : Mixtures : O-TOLUIDINE (D9, 98%) 2 MG/ML IN METHANOL Product name : DLM-3330-S Product code Relevant identified uses of the substance or mixture and uses advised against 1.2. 1.2.1. **Relevant identified uses** : Professional use Main use category 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:vapour) 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 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:vapour)	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

Eyes, Kidney, Liver, Heart, Central nervous system. Highly flammable liquid and vapour. Causes damage to organs (eyes, kidneys, liver, heart, central nervous system) (if inhaled, if swallowed, in contact with skin). Toxic in contact with skin. Toxic if inhaled. Toxic if swallowed. Causes skin irritation. Causes serious eye irritation.



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P321 - Specific treatment (see Hazardous component(s) for labeling on this label)
P322 - 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+P364 - Take off immediately all contaminated clothing and wash it before reuse.
P362+P364 - Take off contaminated clothing and wash it before reuse.
P370+P378 - In case of fire: Use alcohol resistant foam, carbon dioxide (CO2), dry
extinguishing powder to extinguish.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P403+P235 - Store in a well-ventilated place. Keep cool.
P405 - Store locked up.
P501 - Dispose of contents/container to hazardous or special waste collection point, in
accordance with local, regional, national and/or international regulation

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2.3. Other hazards			
PBT: not relevant – no registration required			
SECTION 3: Composition/Information	on on ingredients		
3.1. Substances			
Not applicable			
.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	99.873737	F; R11 T; R39/23/24/25 Xi; R36/38
O-TOLUIDINE (D9, 98%)	(CAS-No.) 95-53-4 (Unlabeled) (EC-No.) 202-429-0 (Unlabeled) (EC Index-No.) 612-091-00-X (Unlabeled)	0.25	T; R23/25 Xi; R41 N; R50/53 Carc.Cat.1; R49 Carc.Cat.1; R45
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	99.873737	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
O-TOLUIDINE (D9, 98%)	(CAS-No.) 95-53-4 (Unlabeled) (EC-No.) 202-429-0 (Unlabeled) (EC Index-No.) 612-091-00-X (Unlabeled)	0.25	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Inhalation:dust,mist), H331 Eye Dam. 1, H318 Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Name	Product identifier	%	GHS-US classification
100% METHANOL UNLABELED	(CAS-No.) 67-56-1	99.873737	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
O-TOLUIDINE (D9, 98%)	(CAS-No.) 95-53-4 (Unlabeled)	0.25	Flam. Liq. 4, H227 Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Inhalation), H331 Eye Dam. 1, H318 Carc. 1B, H350 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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

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SECTION 4: First aid measures	
I.1. Description of first aid measure	
First-aid measures general	: If medical advice is needed, have product container or label at hand. Call a physician immediately. Evacuate danger area.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Call a doctor.
First-aid measures after skin contact	: 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.
First-aid measures after eye contact	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attentior
First-aid measures after ingestion	: Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth Call a physician immediately.
1.2. Most important symptoms and e	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.
.3. Indication of any immediate me	dical attention and special treatment needed
reat symptomatically.	
SECTION 5: Firefighting measure	S
.1. Extinguishing media	
Suitable extinguishing media	: Dry powder. Dry sand.
Insuitable extinguishing media	: Do not use a heavy water stream.
5.2. Special hazards arising from the	e substance or mixture
Fire hazard	: Highly flammable liquid and vapour.
Reactivity	: Vapors may form flammable mixture with air. Highly flammable liquid and vapour.
5.3. Advice for firefighters	
Firefighting instructions	: Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. Wear recommended personal protective equipment.
Other information	: Use water spray to cool exposed surfaces.
SECTION 6: Accidental release m	leasures
.1. Personal precautions, protective	e equipment and emergency procedures
5.1.1. 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".
.2. Environmental precautions	
Do not allow to enter drains or water courses	s. Avoid release to the environment. Prevent entry to sewers and public waters.
5.3. Methods and material for contai	nment and cleaning up
For containment	: Dike and contain spill.

: 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 Methods for cleaning up legislation. : Dispose of materials or solid residues at an authorized site.

6.4. **Reference to other sections**

For further information refer to section 13.

Other information

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SECTION 7: Handling a	nd storage		
7.1. Precautions for safe	handling		
Precautions for safe handling	sn pre co bre	noking. Ground/bond container and i ecautionary measures against static ontainer. Use explosion-proof equipm	parks, open flames and other ignition sources. No receiving equipment. Use only non-sparking tools. Take discharge. Flammable vapors may accumulate in the nent. Wear personal protective equipment. Do not s, mist. Do not get in eyes, on skin, or on clothing. Use ea.
Hygiene measures	ha		ning. Wash hands before breaks and immediately after ated clothing before reuse. Do not eat, drink or smoke hands after handling the product.
7.2. Conditions for safe	storage, including any	y incompatibilities	
Technical measures		round/bond container and receiving e ontainer tightly closed. Store locked u	equipment. Store in a well-ventilated place. Keep .p.
Storage conditions	: St	ore at room temperature away from	light and moisture.
7.3. Specific end use(s)			
No additional information availa	ble		
SECTION 8: Exposure of	ontrols/personal	protection	
8.1. Control parameters			
O-TOLUIDINE (D9, 98%) 2 M	G/ML IN METHANOL		
Italy - Portugal - USA ACGIH	ACGIH TWA (ppm)		200.0000000 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) (I	mg/m³)	260 mg/m ³ Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TWA) (J	ppm)	200 ppm Basis: NIOSH Recommended Exposure Limits

		Limits
USA NIOSH	NIOSH REL (STEL) (mg/m ³)	325 mg/m ³ 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/m ³ 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/m ³ 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.

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O-TOLUIDINE (D9, 98%) (95-			
Italy - Portugal - USA ACGIH	ACGIH TWA (pp	om)	2.0000000 ppm Remarks: Potential Occupational Carcinogen. See Appendix A. Potential for dermal absorption. Basis: USA. ACGIH threshold Limit Values. Substances for which there is a Biological Exposure Index or Indices (see BEI® section), see BEI® for Methemoglobin Inducers Confirmed animal carcinogen with unknown relevance to humans Danger of cutaneous absorption
USA OSHA	OSHA PEL (TW	A) (mg/m³)	22 mg/m ³ Remarks: Skin designation The value in mg/m3 is approximate. Potential Occupational Carcinogen. See Appendix A. Potential for dermal absorption. Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants.
USA OSHA	OSHA PEL (TW	A) (ppm)	5 ppm Remarks: Skin designation. Potential Occupational Carcinogen. See Appendix A. Potential for dermal absorption. Basis: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants.
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	VA) (mg/m³)	260 mg/m ³ Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (TV	VA) (ppm)	200 ppm Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (ST	EL) (mg/m³)	325 mg/m ³ Basis: NIOSH Recommended Exposure Limits
USA NIOSH	NIOSH REL (ST	EL) (ppm)	250 ppm Basis: NIOSH Recommended Exposure Limits
USA NIOSH	Remark (NIOSH	1)	Potential for dermal absorption.
USA OSHA	OSHA PEL (TW	A) (mg/m³)	260 mg/m ³ 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 (TW	A) (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 (STE	EL) (mg/m³)	325 mg/m ³ 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 (Cei	ling) (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.
O-TOLUIDINE (D9, 98%) 2 M	G/ML IN METHAN	IOL	
DNEL/DMEL (Workers)	2	10 ma/ka haduwaiaht/day	
Acute - systemic effects, derm		40 mg/kg bodyweight/day	
Acute - systemic effects, inhalation		260 mg/m ³ 260 mg/cm ²	
Acute - local effects, dermal		40 mg/kg bodyweight/day	
Long-term - systemic effects, dermal		40 mg/kg bodyweight/day	

Long-term - local effects, dermal

260 mg/cm²

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O-TOLUIDINE (D9, 98%) 2 MG/ML IN METHANOL	
Long-term - local effects, inhalation	260 mg/m ³
DNEL/DMEL (General population)	
Acute - systemic effects, dermal	8 mg/kg body weight
Acute - systemic effects, inhalation	50 mg/m³
Acute - systemic effects, oral	8 mg/kg body weight
Acute - local effects, inhalation	50 mg/m³
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
8.2. Exposure controls	

Appropriate engineering controls

: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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

Personal protective equipment

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Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear eye protection. Chemical goggles or face shield with safety glasses.
Skin and body protection	: Wear suitable protective clothing, gloves and eye/face 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 chemica	al properties
9.1. Information on basic physical an	d chemical properties
The properties listed below are for the solvent, the main com	ponent of this mixture.
Physical state	: Liquid
Appearance	: Liquid
Molecular mass	: 32.04 g/mol
Color	: Colorless
Odor	: Pungent
Odor threshold	: No data available
рН	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: -98 °C (-144 °F)
Freezing point	: No data available
Boiling point	: 64.7 °C (148.5 °F)
Flash point	: 9.7 °C (49.5 °F) - closed cup
Auto-ignition temperature	: 455 °C (851 °F) at 1,013 hPa (760 mmHg)
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: 130.3 hPa (97.7 mmHg) at 20 °C (68 °F); 169.27 hPa (126.96 mmHg) at 25 °C (77 °F)
Vapor pressure at 50 °C	: 546.6 hPa (410 mmHg) at 50 °C (122 °F)
Relative vapor density at 20 °C	: 1.11
Relative density	: No data available

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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
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)

9.2. **Other information**

No additional information available

No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
Vapors may form flammable mixture with air. High	nly flammable liquid and vapour.
10.2. Chemical stability	
See storage and expiration date on CoA.	
10.3. Possibility of hazardous reactions	
No dangerous reactions known under normal con	ditions of use.
10.4. Conditions to avoid	
Avoid contact with hot surfaces. Heat. No flames,	no sparks. Eliminate all sources of ignition
·	
10.5. Incompatible materials	
Acid anhydrides. Acid chlorides. Oxidizing agent.	Alkali Metal Amides. Reducing agents. Acids.
10.6. Hazardous decomposition products	
Carbon oxides (CO, CO2).	
SECTION 11: Toxicological information	on
11.1. Information on toxicological effects	
Acute toxicity	: Oral: Toxic if swallowed. Dermal: Toxic in contact with skin. Inhalation:vapour: Toxic if inhaled.
O-TOLUIDINE (D9, 98%) 2 MG/ML IN METHAN	IOL
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)	17.100 mg/kg body weight
ATE CLD (venere)	2.000 mg///4h

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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)	17.100 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.
O-TOLUIDINE (D9, 98%) (95-53-4 (Unlabele	d))
LD50 oral rat	670 mg/kg Remarks: Blood: Normocytic anemia. Blood: Pigmented or nucleated red blood cells. Blood: Methemoglobinemia- Carboxyhemoglobin.
LD50 dermal rabbit	3244 mg/kg
LC50 inhalation rat (ppm)	862 ppm/4h Remarks: Behavioral: Somnolence (general depressed activity). Behavioral: Tremor. Cyanosis
ATE CLP (oral)	100.000 mg/kg body weight
ATE CLP (dermal)	3244.000 mg/kg body weight
ATE CLP (gases)	862.000 ppmV/4h
ATE CLP (dust, mist)	0.500 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

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100% METHANOL UNLABELED (67-56-1)	
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
Carcinogenicity	: Not classified
Reproductive toxicity	: Damage to fetus not classifiable. Fertility classification not possible from current data.
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
Aspiration hazard	: No aspiration toxicity classification.
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.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: Toxic if swallowed.

SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

O-TOLUIDINE (D9, 98%) 2 MG/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
O-TOLUIDINE (D9, 98%) (95-53-4 (Unlabeled))	
LC50 fish 1	30 mg/l Leuciscus idus melanotus - 48 h
EC50 Daphnia 1	0.31 - 0.86 mg/l Daphnia magna (Water flea) - 48 h
EC50 other aquatic organisms 1	3.9 mg/l Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - 72 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

12.2. Persistence and degradability

O-TOLUIDINE (D9, 98%) 2 MG/ML IN METHAN	OL
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
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

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12.3. Bioaccumulative potential	
O-TOLUIDINE (D9, 98%) 2 MG/ML IN METHAN	
BCF fish 1	5 mg/l Cyprinus carpio (Carp) - 72 d at 20 °C
Bioconcentration factor (BCF REACH)	1
Log Pow	-0.77
O-TOLUIDINE (D9, 98%) (95-53-4 (Unlabeled))	
BCF fish 1	450 mg/l Cyprinodontidae - 48 h
Bioconcentration factor (BCF REACH)	2.2
Log Pow	1.32
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	
O-TOLUIDINE (D9, 98%) 2 MG/ML IN METHAN	0
Ecology - soil	Not degradable in the soil.
100% METHANOL UNLABELED (67-56-1) Ecology - soil	Not degradable in the soil.
12.5. Results of PBT and vPvB assessmen	
O-TOLUIDINE (D9, 98%) 2 MG/ML IN METHAN	IOL
PBT: not relevant – no registration required	
100% METHANOL UNLABELED (67-56-1)	
PBT: not relevant – no registration required	
12.6. 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	3
SECTION 13: Disposal considerations	5
13.1. Waste treatment methods	
13.1. Waste treatment methods	 Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations.
13.1. Waste treatment methods Regional legislation (waste)	: Waste materials should be disposed of under conditions which meet Federal, State, and local
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.
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. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed
13.1. Waste treatment methods Regional legislation (waste) Product/Packaging disposal recommendations Ecology - waste materials	 Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.
13.1. Waste treatment methods Regional legislation (waste) Product/Packaging disposal recommendations Ecology - waste materials SECTION 14: Transport information	 Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations. 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 as unused product.
13.1. Waste treatment methods Regional legislation (waste) Product/Packaging disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / AD	 Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations. 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 as unused product.
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13.1. Waste treatment methods Regional legislation (waste) Product/Packaging disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No.(DOT)	 Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations. 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 as unused product.
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13.1. Waste treatment methods Regional legislation (waste) Product/Packaging disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No.(DOT) DOT NA no. 14.2. UN proper shipping name Proper Shipping Name (DOT)	 Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations. 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 as unused product.
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13.1. Waste treatment methods Regional legislation (waste) Product/Packaging disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No.(DOT) DOT NA no. 14.2. UN proper shipping name Proper Shipping Name (DOT) Class (DOT)	 Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations. 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 as unused product. N 1230 1230 Methanol 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 3 - Flammable liquid
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13.1. Waste treatment methods Regional legislation (waste) Product/Packaging disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No.(DOT) DOT NA no. 14.2. UN proper shipping name Proper Shipping Name (DOT) Class (DOT)	 Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations. 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 as unused product. N 1230 UN1230 Wethanol 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 3 - Flammable liquid 6.1 - Poison
 13.1. Waste treatment methods Regional legislation (waste) Product/Packaging disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No.(DOT) DOT NA no. 14.2. UN proper shipping name Proper Shipping Name (DOT) Class (DOT) Hazard labels (DOT)	 Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations. 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 as unused product. N 1230 Wethanol 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 3 - Flammable liquid 6.1 - Poison
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13.1. Waste treatment methods Regional legislation (waste) Product/Packaging disposal recommendations Ecology - waste materials SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / AD 14.1. UN number UN-No.(DOT) DOT NA no. 14.2. UN proper shipping name Proper Shipping Name (DOT) Class (DOT) Hazard labels (DOT) DOT Symbols	 Waste materials should be disposed of under conditions which meet Federal, State, and local environmental control regulations. 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 as unused product. N 1230 Wethanol 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 3 - Flammable liquid 6.1 - Poison
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DOT Special Provisions (49 CFR 172.102)	 IB2 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized. T7 - 4 178.274(d)(2) Normal
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
DOT RQ	: 5000 lbs
Marine pollutant	: No
14.3. Additional information	
Emergency Response Guide (ERG) Number	: 131
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	336 1230
Tunnel restriction code (ADR)	: D/E
Limited quantities (ADR)	11
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" or 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	
Air transport DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 1L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 60 L
Civil Aeronautics Law	: Flammable liquids

14.4.	Environmental hazards	
Other inf	ormation	: No supplementary information available.

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Special precautions for user 14.5.

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

Not applicable

SECTION 15: Regulatory information	
15.1. US Federal regulations	
O-TOLUIDINE (D9, 98%) 2 MG/ML IN METHAN	IOL
Listed on the United States TSCA (Toxic Substa Subject to reporting requirements of United State	
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
O-TOLUIDINE (D9, 98%) (95-53-4 (Unlabeled))	
Subject to reporting requirements of United State	es SARA Section 313
SARA Section 302 Threshold Planning Quantity (TPQ)	Not subject to reporing requirements of the United States SARA Section 302.
SARA Section 311/312 Hazard Classes	Fire hazard Immediate (acute) health hazard Delayed (chronic) health hazard
100% METHANOL UNLABELED (67-56-1)	
Listed on the United States TSCA (Toxic Substa	nces 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		
O-TOLUIDINE (D9, 98%) 2 MG/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

100% METHANOL UNLABELED (67-56-1)

15.3. US State regulations

O-TOLUIDINE (D9, 98%) 2 MG/ML IN METHANOL	
U.S California - Proposition 65 - Carcinogens List	Yes
U.S California - Proposition 65 - Developmental Toxicity	Yes
U.S California - Proposition 65 - Reproductive Toxicity - Female	Yes
U.S California - Proposition 65 - Reproductive Toxicity - Male	Yes
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

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O-TOLUIDINE (D9, 98%) (95-53-4 (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)		
Yes	No	No	No			
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			
O-TOLUIDINE (D9, 98%) (95-53-4 (Unlabeled))						
State or local regulations						
U.S Massachusetts - Right To Know List U.S New Jersey - Right to Know Hazardous Substance List U.S Pennsylvania - RTK (Right to Know) List						
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.

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

text of K-, TF and Lot Fphilases.	
Acute Tox. 3 (Dermal)	Acute toxicity (dermal) Category 3
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3
Acute Tox. 3 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral) Category 3
Aquatic Acute 1	Hazardous to the aquatic environment - Acute Hazard Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment - Chronic Hazard Category 1
Carc. 1B	Carcinogenicity Category 1B
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 Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 1	Specific target organ toxicity (single exposure) Category 1
H225	Highly flammable liquid and vapour
H301	Toxic if swallowed
H311	Toxic in contact with skin
H315	Causes skin irritation
H318	Causes serious eye damage
H319	Causes serious eye irritation
H331	Toxic if inhaled
H350	May cause cancer
H370	Causes damage to organs
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
R11	Highly flammable
R23/25	Toxic by inhalation and if swallowed
R36/38	Irritating to eyes 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
R45	May cause cancer
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	R49	May cause cancer by inhalation		
	R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment		
	F	Highly flammable		
	N	Dangerous for the environment		
	Т	Toxic		
	Xi	Irritant		
NFP	A 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.		
Haza	rd Rating			
Health		: 2 Moderate Hazard - Temporary or minor injury may occur		
Flam	mability	: 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