

Safety Data Sheet

according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 07/01/2011

Revision date: 06/01/2017

Supersedes: 18/02/2015

Version: 4.0

DLM-

Revision	uale:	06/0	1/201

1.1. Product identifier	ostance/mixture and of the company/undertaking
Product form	: Substance
Substance name	: 2,4,5-TRICHLOROPHENOL (RING-D2, 97-98%)
EC index no	: 604-017-00-X (Unlabeled)
EC no	: 202-467-8 (Unlabeled)
CAS No	: 95-95-4 (Unlabeled)
Product code	: DLM-2143
Formula	: C6D2Cl3OH
1.2. Relevant identified uses of the sub	stance 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
No additional information available 1.3. Details of the supplier of the safety	data sheet
Cambridge Isotope Laboratories, Inc. 50 Frontage Road Andover, MA 01810 USA	
USA: 1-800-322-1174 Int: 1-978-749-8000 <u>cilsales@isotope.com</u> www.isotope.com	
Emergency telephone number	
Emergency numbers:	
Chemtrec: 1-800-424-9300 (24 hours) International: 1-703-741-5970 (24 hours)	
SECTION 2: Hazards identification	

Acute Tox. 4 (Oral) H302 H315 Skin Irrit. 2 Eye Irrit. 2 H319 H400 Aquatic Acute 1 Aquatic Chronic 1 H410

Full text of H-statements: see section 16

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

Xi; R36 N; R50/53 Xi; R38 Xn; R22 Full text of R-phrases: see section 16

## **GHS-US** classification

Acute Tox. 4 (Oral) H302 Skin Irrit. 2 H315 Eye Irrit. 2A H319 Aquatic Acute 1 H400 Aquatic Chronic 1 H410

Adverse physicochemical, human health and environmental effects

Lungs, Liver, Kidney, Eyes.

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Signal word (CLP)       : Warning         +azard statements (CLP)       : Warning         +azard statements (CLP)       : Warning         Precautionary statements (CLP)       : Warning         Precautionary statements (CLP)       : P264 - Wash both hands thoroughly after handling         P270 - Do not eat, drink or smoke when using this product       P273 - Avoid release to the environment         P273 - Avoid release to the environment       P273 - Avoid release to the environment         P280 - Wear protective clothing, protective gloves       P301+P312 - IF SWALLOWED: Call a doctor if you feel unwell         P302+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing       P303 - Rinse mouth         GHS-US labelling       : Warning       : Warning         +azard pictograms (GHS-US)       : Warning       : Warning         +azard statements (GHS-US)       : Warning       : Warning         +azard statements (GHS-US)       : Warning       : Warning         +azard statements (GHS-US)       : Warning       : Warning         Precautionary statements (GHS-US)       : Warning       : Warning         Precautionary statements (GHS-US)       : Warning       : Warning         P422 - IF ON State when using this product       : P273 - On ot eat, drink or smoke when using this product	2.2. Label elements	
$ \begin{array}{llllllllllllllllllllllllllllllllllll$		lo. 1272/2008 [CLP]
Signal word (CLP)       : Warning         Hazard statements (CLP)       : H302 - Harmful if swallowed         H315 - Causes serious eye initiation       H319 - Causes serious eye initiation         H410 - Very toxic to aquatic life with long lasting effects       Precautionary statements (CLP)         Precautionary statements (CLP)       : P264 - Wash both hands thoroughly after handling         P270 - Do not eat, drink or smoke when using this product       P273 - Avoid release to the environment         P280 - Wash poth hands thoroughly after handling       P202 - P35 - IF ON SKIN: Wash with plenty of water         P302+P352 - IF SWALLOWED: Call a doctor if you feel numell       P302+P352 - IF ON SKIN: Wash with plenty of water         P302+P352 - IF ON SKIN: Wash with plenty of water       P3030 - Rinse mouth         GHS-US labelling	Hazard pictograms (CLP)	
Signal word (CLP)       : Warning         Hazard statements (CLP)       : H302 - Harmful if swallowed         H315 - Causes serious eye initiation       H319 - Causes serious eye initiation         H410 - Very toxic to aquatic life with long lasting effects       Precautionary statements (CLP)         Precautionary statements (CLP)       : P264 - Wash both hands thoroughly after handling         P270 - Do not eat, drink or smoke when using this product       P273 - Avoid release to the environment         P280 - Wash poth hands thoroughly after handling       P202 - P35 - IF ON SKIN: Wash with plenty of water         P302+P352 - IF SWALLOWED: Call a doctor if you feel numell       P302+P352 - IF ON SKIN: Wash with plenty of water         P302+P352 - IF ON SKIN: Wash with plenty of water       P3030 - Rinse mouth         GHS-US labelling		
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Hazard statements (CLP)       I: H322 - Harmful if swallowed         H315 - Causes skin initiation       H316 - Quises skin initiation         H410 - Very toxic to aquatic life with long lasting effects       Precautionary statements (CLP)         Precautionary statements (CLP)       P244 - Wash both hands thoroughly after handling         P273 - Avoid release to the environment       P200 - V0 are protective colting, protective gloves         P304 - P312 - IF SWALLOWED: Call a doctor if you feel unwell       P304 P312 - IF SWALLOWED: Call a doctor if you feel unwell         P304 - P312 - IF SWALLOWED: Call a doctor if you feel unwell       P304 P312 - IF SWALLOWED: Call a doctor if you feel unwell         P304 - P312 - IF SWALLOWED: Call a doctor if you feel unwell       P304 P312 - IF SWALLOWED: Call a doctor if you feel unwell         P304 - P312 - IF SWALLOWED: Call a doctor if you feel unwell       P304 P312 - IF SWALLOWED: Call a doctor if you feel unwell         P304 - P312 - IF SWALLOWED: Call a doctor if you feel unwell       P304 P312 - IF SWALLOWED: Call a P304 Unset if water         GHS-US labeling	Signal word (CLP)	
H315 - Causes skin iritation         H315 - Causes skin iritation         H316 - Causes skin iritation         H317 - Causes skin iritation         H316 - Causes skin iritation         H317 - Causes skin iritation         Precautionary statements (CLP)         Precautionary statements (CHS-US)         Precautionary statements (GHS-US)		0
H410 - Very toxic to aquisic life with long lasting effects         Precautionary statements (CLP)       : P264 - Wash both hands thoroughly after handling         P277 - Do not eat, dink or smoke when using this product       P273 - Avoid release to the environment         P280 - Weap protective clohing, protective gloves       P301+P312 - IF SWALLOWED: Call a doctor if you feel unwell         P304-P321 - FI SWALLOWED: Call a doctor if you feel unwell       P304-P333 - IF IN EYES; Rinse cautiously with water for several minutes. Remove contact lineses, if present and easy to do. Continue rinsing         GHS-US labelling       :		
Precautionary statements (CLP)       : P264 - Wash both hands thoroughly after handling         P270 - Do not eat, drink or smoke when using this product       P273 - Do not eat, drink or smoke when using this product         P270 - Wear protective clothing, protective gloves       P201 - P302 + P312 - IF SWALLOWED: Call a doctor if you feel unwell         P302+P322 - IF ON SKIN: Wash with plenty of water       P302+P312 - IF SWALLOWED: Call a doctor if you feel unwell         P302+P312 - IF SWALLOWED: Call a doctor if you feel unwell       P302+P312 - IF SWALLOWED: Call a doctor if you feel unwell         P302+P312 - IF SWALLOWED: Call a doctor if you feel unwell       P302+P312 - IF SWALLOWED: Call a doctor if you feel unwell         P302+P312 - IF SWALLOWED: Call a doctor if you feel unwell       P302+P312 - IF SWALLOWED: Call a doctor if you feel unwell         P302+P312 - IF SWALLOWED: Call a doctor if you feel unwell       P302+P312 - IF SWALLOWED: Call a doctor if you feel unwell         P303 - Rinse mouth       If washing       If washing         Hazard pictograms (GHS-US)       :       If washing         Hazard statements (GHS-US)       :       Warning         Hazard statements (GHS-US)       :       P264 - Wash Both hands throroughly after handling         Precautionary statements (GHS-US)       :       P264 - Wash Both hands throroughly after handling         P270 - Do not eat, drink or smoke when using this product       P273 - Void release to the environment     <		
P270 - Do not eat, drink or smoke when using this product         P280 - Wear protective clothing, protective gloves         P301+P312 - IF SWALLOWED: Call a doctor if you feel unwell         P302+P352 - IF ON SKIN: Wash with plenty of water         P305+P332 - IF SWALLOWED: Call a doctor if you feel unwell         P302+P352 - IF ON SKIN: Wash with plenty of water         P305+P331 - IF SWALLOWED: Call a doctor if you feel unwell         P302+P352 - IF ON SKIN: Wash with plenty of water         P305+P331 - IF SWALLOWED: Call a doctor if you feel unwell         P302 - Rinse mouth    GHS9 - Rinse mouth          GHS-US labelling     Hazard pictograms (GHS-US)          #azard statements (GHS-US)       : Warning         Hazard statements (GHS-US)       : H302 - Harmful if swallowed         H315 - Causes skin irritation       H315 - Causes skin irritation         H319 - Causes skin use yei irritation       H319 - Causes skin use yei irritation         H410 - Very toxic to aqualic life with long lasting effects       P264 - Wash Both hands thoroughly after handling         P270 - Do not eat, drink or smoke when using this product       P273 - Avoid release to the environment         P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell       P305+P331+P333 - If in eyes: Rinse cautioby with water for several minutes. Remove contact leneses, if present and easy to do. Continue rinsing		
P273 - Avoid release to the environment       P280         P280 - Wear protective clothing, protective gloves       P301+P312 - IF SWALLOWED: Call a doctor if you feel unwell         P302+P352 - IF ON SKIN: Wash with plenty of water       P305+P354 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing         P300 - Rinse mouth       P300 - Rinse mouth         GHS-US labelling	Precautionary statements (CLP)	
P280 - Wear protective clothing, protective glowes       P301+P312 - IF SWALLOWED: Call a doctor if you feel unwell         P305+P325 - IF ON SKIN: Wash with plenty of water       P305+P325 - IF ON SKIN: Wash with plenty of water         P305+P330 - Rinse mouth       P305+P330 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue finsing         CHS-US labelling       Image: Control of the several minutes in the several minutes. Remove contact lenses, if present and easy to do. Continue finsing         Signal word (GHS-US)       Image: Control of the several minutes. Remove contact lenses, if present and easy to do. Continue finsing         Signal word (GHS-US)       Image: Warning         Hazard statements (GHS-US)       Image: Warning         Hazard statements (GHS-US)       Hang: Causes skin iritration         H312 - Causes scious evel iritration       H319 - Causes scious evel iritration         H410 - Very toxic to aquatic life with long lasting effects       P204 - Wash Both hands thoroughly after handling         P270 - Do not eat, drink or smoke when using this product       P273 - Avoid release to the environment         P280 - Wear evel protection, face protection, protective gloves       P305+P351+P332 - IF ON SKIN: Wash with plenty of sap and water         P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing         P321 - Specific treatment (see Hazard pictograms (CLP) on t		
P301+P312 - IF SWALLOWED: Call a doctor if you feel unwell         P305+P351 - IF IN EVES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing         P300 - Rinse mouth         GHS-US labelling         Hazard pictograms (GHS-US)       :		
P305+P331+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P330 - Rinse mouth         GHS-US labelling         Hazard pictograms (GHS-US)       :		
GHS-US labelling         Hazard pictograms (GHS-US)       : : : : : : : : : : : : : : : : : : :		
P330 - Rinse mouth         GHS-US labelling         Hazard pictograms (GHS-US)       : <ul> <li></li></ul>		
Hazard pictograms (GHS-US)       :		
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Signal word (GHS-US)       :       Warning         Hazard statements (GHS-US)       :       H302 - Harmful if swallowed         H315 - Causes skin irritation       H319 - Causes serious eye irritation         H410 - Very toxic to aquatic life with long lasting effects         Precautionary statements (GHS-US)       :       P424 - Wash Both hands thoroughly after handling         P270 - Do not eat, drink or smoke when using this product       P273 - Avoid release to the environment         P280 - Wear eye protection, face protection, protective clothing, protective gloves       P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell         P302+P352 - IF ON SKIN:       P302+P352 - IF ON SKIN: weak with plenty of soap and water         P302+P352 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell         P302+P352 - IF SWALLOWED: call a ADVice/Attention         P332+P313 - If skin irritation occurs: Get medical advice/attention         P332+P313 - If skin irritation persists: Get medical advice/attention         P337+P313 - If skin irritation persists: Get medical advice/attention         P337+P313 - If skin irritation persists: Get medical advice/attention         P337+P313 - If skin irritation persists: Get medical advice/attention         P337+P313 - If skin irritation persists: Get medical advice/attention         P337+P313 - If skin irritation persists: Get medical advice/attention         P337+P313 -	one consening	
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Signal word (GHS-US)       : Warning         Hazard statements (GHS-US)       : H302 - Harmful if swallowed H315 - Causes skin irritation H319 - Causes serious eye irritation H410 - Very toxic to aquatic life with long lasting effects         Precautionary statements (GHS-US)       : P264 - Wash Both hands thoroughly after handling P270 - Do not eat, drink or smoke when using this product P273 - Avoid release to the environment P280 - Wear eye protection, face protection, protective clothing, protective gloves P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell P302+P352 - IF ON SKIN: Wash with plenty of soap and water P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P321 - Specific treatment (see Hazard pictograms (CLP) on this label) P330 - If swallowed, rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse P391 - Collect spillage P501 - Dispose of contents/container to Comply with applicable regulations		$\langle \downarrow \rangle \langle \cancel{2}_{2} \rangle$
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<ul> <li>H319 - Causes serious eye irritation</li> <li>H410 - Very toxic to aquatic life with long lasting effects</li> <li>P264 - Wash Both hands thoroughly after handling</li> <li>P270 - Do not eat, drink or smoke when using this product</li> <li>P273 - Avoid release to the environment</li> <li>P280 - Wear eye protection, face protection, protective clothing, protective gloves</li> <li>P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell</li> <li>P302+P352 - IF ON SKIN: Wash with plenty of soap and water</li> <li>P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing</li> <li>P321 - Specific treatment (see Hazard pictograms (CLP) on this label)</li> <li>P332+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P332+P313 - If skin irritation persists: Get medical advice/attention</li> <li>P362 - Take off contaminated clothing and wash before reuse</li> <li>P391 - Collect spillage</li> <li>P501 - Dispose of contents/container to Comply with applicable regulations</li> </ul>	Hazard statements (GHS-US)	
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Precautionary statements (GHS-US)       : P264 - Wash Both hands thoroughly after handling         P270 - Do not eat, drink or smoke when using this product         P273 - Avoid release to the environment         P280 - Wear eye protection, face protection, protective clothing, protective gloves         P301+P312 - IF SWALLOWED: call a POISON CENTER or doctor/physician if you feel unwell         P302+P352 - IF ON SKIN: Wash with plenty of soap and water         P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact         lenses, if present and easy to do. Continue rinsing         P321 - Specific treatment (see Hazard pictograms (CLP) on this label)         P330 - If swallowed, rinse mouth         P332+P313 - If skin irritation occurs: Get medical advice/attention         P332+P313 - If ske off contaminated clothing and wash before reuse         P391 - Collect spillage         P501 - Dispose of contents/container to Comply with applicable regulations		
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P330 - If swallowed, rinse mouth P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362 - Take off contaminated clothing and wash before reuse P391 - Collect spillage P501 - Dispose of contents/container to Comply with applicable regulations		
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P501 - Dispose of contents/container to Comply with applicable regulations		P362 - Take off contaminated clothing and wash before reuse

## No additional information available

<b>SECTION 3: Composition/information on</b>	ingredients		
3.1. Substance			
Name	Product identifier	%	Classification according to Directive 67/548/EEC
2,4,5-TRICHLOROPHENOL (RING-D2, 97-98%) (Main constituent)	(CAS No) 95-95-4 (Unlabeled) (EC no) 202-467-8 (Unlabeled) (EC index no) 604-017-00-X (Unlabeled)	100	Xi; R36 N; R50/53 Xi; R38 Xn; R22

Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2,4,5-TRICHLOROPHENOL (RING-D2, 97-98%) (Main constituent)	(CAS No) 95-95-4 (Unlabeled) (EC no) 202-467-8 (Unlabeled) (EC index no) 604-017-00-X (Unlabeled)	100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

## Full text of R- and H-statements: see section 16

Name	Product identifier	%	GHS-US classification
2,4,5-TRICHLOROPHENOL (RING-D2, 97-98%) (Main constituent)	(CAS No) 95-95-4 (Unlabeled)	100	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

## Full text of H-statements: see section 16

3.2. Mixture	
Not applicable	
SECTION 4: First aid measures	
4.1. Description of first aid measure	S
First-aid measures general	: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
First-aid measures after inhalation	: If breathed in, move person to fresh air. If not breathing, give artificial respiration. Consult a physician.
First-aid measures after skin contact	: Wash off with soap and plenty of water. Consult a physician.
First-aid measures after eye contact	: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
First-aid measures after ingestion	: Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms/injuries after inhalation	: May be harmful if inhaled. May cause respiratory tract irritation.
Symptoms/injuries after skin contact	: Harmful if absorbed through skin. Causes skin irritation.
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Harmful if swallowed.
4.3. Indication of any immediate me	dical attention and special treatment needed
No additional information available	
SECTION 5: Firefighting measure	es
5.1. Extinguishing media	
Suitable extinguishing media	: Use water spray, alcohol-resistant foam, dry chemical, or carbon dioxide.
5.2. Special hazards arising from the	e substance or mixture
No additional information available	
5.3. Advice for firefighters	
Firefighting instructions	: Wear self contained breathing apparatus for fire fighting if necessary.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.
SECTION 6: Accidental release m	Deasures
	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
6.1.2. For emergency responders	
No additional information available	
6.2. Environmental precautions	
	do so. Do not let product enter drains. Discharge into the environment must be avoided.
6.3. Methods and material for contain	nment and cleaning up
For containment	: Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

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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	: Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed.
Precautions for safe handling	<ul> <li>Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs.</li> </ul>
Hygiene measures	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
7.2. Conditions for safe storage, inclu	
Technical measures	: Keep container tightly closed in a dry and well-ventilated place.
Storage conditions	: Store at room temperature away from light and moisture.
7.3. Specific end use(s)	
No additional information available	
<b>SECTION 8: Exposure controls/per</b>	sonal protection
8.1. Control parameters	
No additional information available	
8.2. Exposure controls	
Appropriate engineering controls	: Handle in accordance with good industrial hygiene and safety practice. Wash hands before
	breaks and at the end of workday.
Personal protective equipment	: Gloves. Protective goggles. Protective clothing. Self-contained breathing apparatus.
Materials for protective clothing	: Wear suitable protective clothing and gloves.
Hand protection	: Wear suitable protective clothing and gloves.
Eye protection	: Wear safety glasses with side shields (or goggles) and a face shield.
Skin and body protection	: Choose body protection according to the amount and concentration of the dangerous substance at the work place.
Respiratory protection	: When appropriate, use NIOSH/CEN approved respirator.
Environmental exposure controls	: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
<b>SECTION 9: Physical and chemica</b>	properties
9.1. Information on basic physical and	
Physical state	: Solid
Appearance	: Powder.
Molecular mass	: 199.46 g/mol (Labeled)
Colour	: Beige.
Odour	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 67 - 69 °C (153 - 156 °F) - lit.
Freezing point	: No data available
Boiling point	: 248 °C (478 °F) at 987 hPa (740 mmHg) - lit.
Flash point	: 133 °C (271.4 °F) - closed cup
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
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Solubility	: No data available
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2. Other information	
No additional information available	
SECTION 10: Stability and reactivity	
10.1. Reactivity	
No additional information available	
10.2. Chemical stability	
Stable if stored under recommended conditions.	
10.3. Possibility of hazardous reactions	
No additional information available	
10.4. Conditions to avoid	
No data available.	
10.5. Incompatible materials	
Oxidizing agents.	
10.6. Hazardous decomposition products	5
Carbon oxides (CO, CO2). Hydrogen chloride ga	as.
SECTION 11: Toxicological information	tion
11.1. Information on toxicological effects	<b>i</b>
Acute toxicity	: Harmful if swallowed.
2,4,5-TRICHLOROPHENOL (RING-D2, 97-98	%) (95-95-4 (Unlabeled))
LD50 oral rat	820 mg/kg
ATE CLP (oral)	820.000 mg/kg bodyweight
Skin corrosion/irritation	: Causes skin irritation.
	No data available
Serious eye damage/irritation	: Causes serious eye irritation.
Despiratory or alvin consideration	No data available
Respiratory or skin sensitisation	: No data available No data available
Germ cell mutagenicity	: No data available
Carcinogenicity	: Not classified
Reproductive toxicity	: No data available
Specific target organ toxicity (single exposure)	: Not classified
	No data available

Specific target organ toxicity (repeated exposure)

Aspiration hazard

Potential adverse human health effects and symptoms

#### our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. IARC group : 2B Symptoms/injuries after inhalation : May be harmful if inhaled. May cause respiratory tract irritation. : Harmful if absorbed through skin. Causes skin irritation. Symptoms/injuries after skin contact Symptoms/injuries after eye contact : Causes serious eye irritation. Symptoms/injuries after ingestion

Depending on the intensity and duration of exposure, effects vary from mild irritation to severe

destruction of tissue. Prolonged or repeated exposure can cause damage to the eyes. Damage

to the lungs. Liver injury may occur. Kidney injury may occur. Damage to the eyes. To the best of

: Harmful if swallowed.

: Not classified

: Not classified

:

No data available

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	ing to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
<b>SECTION 12: Ecological informatio</b>	n
12.1. Toxicity	
2,4,5-TRICHLOROPHENOL (RING-D2, 97-94	8%) (95-95-4 (Unlabeled))
LC50 fish 1	0.274 mg/l Oncorhynchus mykiss (rainbow trout) - 96 h
EC50 Daphnia 1	0.9 mg/l Immobilization EC50 - Daphnia magna (Water flea) - 48 h
NOEC (acute)	1 mg/l Cyprinodon variegatus (sheepshead minnow) - 96 h
· · ·	
12.2. Persistence and degradability	
2,4,5-TRICHLOROPHENOL (RING-D2, 97-9	8%) (95-95-4 (Unlabeled))
Persistence and degradability	No data available.
12.3. Bioaccumulative potential	
2,4,5-TRICHLOROPHENOL (RING-D2, 97-9	8%) (95-95-4 (Unlabeled))
BCF fish 1	0.0048 mg/l Pimephales promelas (fathead minnow) - 28 d
Bioconcentration factor (BCF REACH)	1900
12.4. Mobility in soil	
2,4,5-TRICHLOROPHENOL (RING-D2, 97-9	8%) (95-95-4 (Unlabeled))
Ecology - soil	No data available.
12.5. Results of PBT and vPvB assessm	nent .
No additional information available	
12.6. Other adverse effects	
Other adverse effects	: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal
	Very toxic to aquatic life with long lasting effects.
SECTION 13: Disposal consideration	ons
13.1. Waste treatment methods	
Regional legislation (waste)	<ul> <li>Waste materials should be disposed of under conditions which meet Federal, State, and Local environmental control regulations.</li> </ul>
Waste disposal recommendations	: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed
	professional waste disposal service to dispose of this material.
Ecology - waste materials	professional waste disposal service to dispose of this material. : Dispose as unused product.
Ecology - waste materials SECTION 14: Transport information	Dispose as unused product.
	Dispose as unused product.
SECTION 14: Transport information	Dispose as unused product.
SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA /	Dispose as unused product.
SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / J 14.1. UN number	: Dispose as unused product. ADN
SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / J 14.1. UN number UN-No.(DOT) DOT NA no.	: Dispose as unused product. ADN : 3077
SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A 14.1. UN number UN-No.(DOT) DOT NA no. 14.2. UN proper shipping name	: Dispose as unused product. ADN : 3077 UN3077
SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A 14.1. UN number UN-No.(DOT) DOT NA no. 14.2. UN proper shipping name Proper Shipping Name (DOT)	<ul> <li>Dispose as unused product.</li> <li>ADN</li> <li>3077 UN3077</li> <li>Environmentally hazardous substances, solid, n.o.s.</li> </ul>
SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A 14.1. UN number UN-No.(DOT) DOT NA no. 14.2. UN proper shipping name Proper Shipping Name (DOT) Transport hazard class(es) (DOT)	<ul> <li>Dispose as unused product.</li> <li>ADN</li> <li>3077 UN3077</li> <li>Environmentally hazardous substances, solid, n.o.s.</li> <li>9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140</li> </ul>
SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A 14.1. UN number UN-No.(DOT) DOT NA no. 14.2. UN proper shipping name Proper Shipping Name (DOT)	<ul> <li>Dispose as unused product.</li> <li>ADN</li> <li>3077 UN3077</li> <li>Environmentally hazardous substances, solid, n.o.s.</li> </ul>
SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / J 14.1. UN number UN-No.(DOT) DOT NA no. 14.2. UN proper shipping name Proper Shipping Name (DOT) Transport hazard class(es) (DOT) Hazard labels (DOT)	<ul> <li>Dispose as unused product.</li> <li>ADN</li> <li>: 3077 UN3077</li> <li>: Environmentally hazardous substances, solid, n.o.s.</li> <li>: 9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140</li> <li>: 9 - Class 9 (Miscellaneous dangerous materials)</li> </ul>
SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / A 14.1. UN number UN-No.(DOT) DOT NA no. 14.2. UN proper shipping name Proper Shipping Name (DOT) Transport hazard class(es) (DOT)	<ul> <li>Dispose as unused product.</li> <li>ADN</li> <li>3077 UN3077</li> <li>Environmentally hazardous substances, solid, n.o.s.</li> <li>9 - Class 9 - Miscellaneous hazardous material 49 CFR 173.140</li> </ul>

# 2,4,5-TRICHLOROPHENOL (RING-D2, 97-98%) DLM-2143 Safety Data Sheet according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and R

DOT Special Provisions (49 CFR 172.102)	: 8 - A hazardous substance that is not a hazardous waste may be shipped under the shipping description "Other regulated substances, liquid or solid, n.o.s.", as appropriate. In addition, for
	solid materials, special provision B54 applies. 146 - This description may be used for a material that poses a hazard to the environment but does not meet the definition for a hazardous waste or a hazardous substance, as defined in 171.8 of this subchapter, or any hazard class as defined in Part 173 of this subchapter, if it is designated as environmentally hazardous by the Competent Authority of the country of origin, transit or destination. 335 - Mixtures of solids that are not subject to this subchapter and environmentally hazardous liquids or solids may be classified as "Environmentally hazardous substances, solid, n.o.s,"
	<ul> <li>UN3077 and may be transported under this entry, provided there is no free liquid visible at the time the material is loaded or at the time the packaging or transport unit is closed. Each transport unit must be leakproof when used as bulk packaging.</li> <li>A112 - Notwithstanding the quantity limits shown in Column (9A) and (9B) for this entry, the following IBCs are authorized for transportation aboard passenger and cargo-only aircraft. Each IBC may not exceed a maximum net quantity of 1,000 kg:</li> <li>a. Metal: 11A, 11B, 11N, 21A, 21B and 21N</li> <li>b. Rigid plastics: 11H1, 11H2, 21H1 and 21H2</li> </ul>
	c. Composite with plastic inner receptacle: 11HZ1, 11HZ2, 21HZ1 and 21HZ2
	<ul> <li>d. Fiberboard: 11G</li> <li>e. Wooden: 11C, 11D and 11F (with inner liners)</li> <li>f. Flexible: 13H2, 13H3, 13H4, 13H5, 13L2, 13L3, 13L4, 13M1 and 13M2 (flexible IBCs must be sift-proof and water resistant or must be fitted with a sift-proof and water resistant liner).</li> <li>B54 - Open-top, sift-proof rail cars are also authorized.</li> <li>IB8 - Authorized IBCs: Metal (11A, 11B, 11N, 21A, 21B, 21N, 31A, 31B and 31N); Rigid plastics (11H1, 11H2, 21H1, 21H2, 31H1 and 31H2); Composite (11HZ1, 11HZ2, 21HZ1, 21HZ2, 31HZ1 and 31HZ2); Fiberboard (11G); Wooden (11C, 11D and 11F); Flexible (13H1, 13H2, 13H3, 13H4, 13H5, 13L1, 13L2, 13L3, 13L4, 13M1 or 13M2).</li> <li>IP3 - Flexible IBCs must be sift-proof and water-resistant or must be fitted with a sift-proof and water-resistant liner.</li> <li>N20 - A 5M1 multi-wall paper bag is authorized if transported in a closed transport vehicle.</li> <li>T1 - 1.5 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 155 : 213
DOT Packaging Non Bulk (49 CFR 173.xxx) DOT Packaging Bulk (49 CFR 173.xxx)	: 240
DOT RQ	: 10 lbs
Marine pollutant	No
14.3. Additional information	
Other information	: No supplementary information available.
Special transport precautions	: EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packages with Dangerous Goods > 5L for liquids or > 5kg for solids.
Overland transport	
Packing group (ADR)	: 111
Class (ADR)	: 9 - Miscellaneous dangerous substances and articles

- : 9 Miscellaneous dangerous substances and articles
- : 90

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according to Regulation (EC) No. 453/2010 and according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Danger labels (ADR)	: 9 - Miscellaneous dangerous substances and articles
Orange plates	90 3077
Tunnel restriction code	: E
Limited quantities (ADR)	5kg
EAC code	: 2Z
Excepted quantities (ADR)	: E1
Transport by sea	
DOT Vessel Stowage Location	: A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
MFAG-No	: 171
Air transport	
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: No limit
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: No limit
Civil Aeronautics Law	: Miscellaneous dangerous substances & articles(Hazardous materials notice Appended Table 1 Article 194 of the Enforcement Regulations)
14.4. Environmental hazards	
Dangerous for the environment	
Other information	: No supplementary information available.

Special transport precautions	: EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packages with Dangerous Goods > 5L for liquids or > 5kg for solids.

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

Not applicable

14.5.

SECTION 15: Regulatory information		
15.1. US Federal regulations		
2,4,5-TRICHLOROPHENOL (RING-D2, 97-98%) (95-95-4 (Unlabeled))		
Subject to reporting requirements of United States 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	Immediate (acute) health hazard Delayed (chronic) health hazard	

# 15.2. International regulations

Special precautions for user

## CANADA

2,4,5-TRICHLOROPHENOL (RING-D2, 97-98%) (95-95-4 (Unlabeled))	
Listed on the Canadian DSL (Domestic Substances List)	

## 15.2.1. National regulations

No additional information available

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15.3. US State regulations	
2,4,5-TRICHLOROPHENOL (RING-D2, 97-98%)(95-95-4 (Unlabeled))	
State or local regulations	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 This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## **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-statements:	

Acute toxicity (oral), Category 4
Hazardous to the aquatic environment — Acute Hazard, Category 1
Hazardous to the aquatic environment — Chronic Hazard, Category 1
Serious eye damage/eye irritation, Category 2
Skin corrosion/irritation, Category 2
Harmful if swallowed
Causes skin irritation
Causes serious eye irritation
Very toxic to aquatic life
Very toxic to aquatic life with long lasting effects
Harmful if swallowed
Irritating to eyes
Irritating to skin
Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Dangerous for the environment
Irritant
Harmful

NFPA health hazard	: 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.
NFPA fire hazard	: 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity	: 0 - Material that in themselves are normally stable, even under fire conditions.
HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
Flammability	: 1 Slight Hazard

Houldh	: Emodorato mazara
Flammability	: 1 Slight Hazard
Physical	: 0 Minimal Hazard

## CIL Multi-Solvent Mixture SDS

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