

Safety Data Sheet 17005Z0 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Version: 1.0

Date of issue: 03/06/2018

1.1. Identification	
Product form	: Substance
Substance name	: 2-Chlorotoluene
CAS No	: 95-49-8
Product code	: 1700-5-Z0
Formula	: C7H7Cl
Synonyms	: 1-Chloro-2-methylbenzene
Other means of identification	: MFCD00000562
1.2. Relevant identified use	es of the substance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemicals
	Manufacture of substances Scientific research and development
1.3. Details of the supplier	of the safety data sheet
SynQuest Laboratories, Inc.	
P.O. Box 309	
Alachua, FL 32615 - United States T (386) 462-0788 - F (386) 462-70	
info@synquestlabs.com - www.sy	
1.4. Emergency telephone	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) ide	entification
2.1. Classification of the se	ubstance or mixture
Classification (GHS-US)	
Flam. Liq. 3	H226 - Flammable liquid and vapour
Acute Tox. 4 (Inhalation:vapour)	H332 - Harmful if inhaled
Skin Irrit. 2	H315 - Causes skin irritation
Eye Irrit. 2A Repr. 2	H319 - Causes serious eye irritation H361 - Suspected of damaging fertility or the unborn child
STOT SE 3	H335 - May cause respiratory irritation
Aquatic Acute 3	H402 - Harmful to aquatic life
Aquatic Acute 2	H401 - Toxic to aquatic life H411 - Toxic to aquatic life with long lasting effects
Aquatic Chronic 2	
Full text of H-phrases: see section	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	GHS02 GHS07 GHS08 GHS09
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H226 - Flammable liquid and vapor
	H315 - Causes skin irritation
	H319 - Causes serious eye irritation H332 - Harmful if inhaled
	H335 - May cause respiratory irritation
	H361 - Suspected of damaging fertility or the unborn child
	H402 - Harmful to aquatic life
Precautionary statements (GHS-L	H402 - Harmful to aquatic life H411 - Toxic to aquatic life with long lasting effects

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	<ul> <li>P241 - Use explosion-proof electrical/ventilating/lighting equipment</li> <li>P242 - Use only non-sparking tools</li> <li>P243 - Take precautionary measures against static discharge</li> <li>P261 - Avoid breathing fumes, mist, spray, vapors</li> <li>P264 - Wash skin thoroughly after handling</li> <li>P271 - Use only outdoors or in a well-ventilated area</li> <li>P273 - Avoid release to the environment</li> <li>P280 - Wear protective gloves/protective clothing/eye protection/face protection</li> <li>P302+P352 - If on skin: Wash with plenty of soap and water</li> <li>P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower</li> <li>P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing</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>P308+P313 - If exposed or concerned: Get medical advice/attention</li> <li>P312 - Call a POISON CENTER or doctor/physician if you feel unwell</li> <li>P32+P313 - If skin irritation occurs: Get medical advice/attention</li> <li>P332+P313 - If skin irritation persists: Get medical advice/attention</li> <li>P332+P313 - If skin irritation persists: Get medical advice/attention</li> <li>P332+P313 - If skin eye irritation persists: Get medical advice/attention</li> <li>P332+P313 - If skin irritation persists: Get medical advice/attention</li> <li>P332+P313 - If skin irritation persists: Get medical advice/attention</li> <li>P332+P313 - If a colo fine: Use dry sand, dry chemical or alcohol-resistant foam to extinguish</li> <li>P304+P233 - Store in a well-ventilated place. Keep container tightly closed</li> <li>P403+P233 - Store in a well-ventilated place. Keep cool</li> <li>P403+P233 - Store in a well-ventilated place. Keep cool</li> <li>P403+P235 - Store in a well-ventilated place. Keep cool</li> <li>P405 - Store locked up</li> <li>P501 - Dispose of contents/container to an approv</li></ul>
Other hazards	

### No additional information available

### 2.4. Unknown acute toxicity (GHS US)

### Not applicable

2.3.

### SECTION 3: Composition/information on ingredients

### 3.1. Substance

Substance type

: Mono-constituent

Name	Product identifier	%	Classification (GHS-US)
2-Chlorotoluene (Main constituent)	(CAS No) 95-49-8	<= 100	Flam. Liq. 3, H226 Acute Tox. 4 (Inhalation:vapour), H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Repr. 2, H361 STOT SE 3, H335 Aquatic Acute 3, H402 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

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

3.2. Mixture			
Not applicable			
SECTION 4: First aid measures			
4.1. Description of first aid measures			
First-aid measures general :	<ul> <li>In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). Move the affected personnel away from the contaminated area.</li> </ul>		
First-aid measures after inhalation :	Remove person to fresh air and keep comfortable for breathing. If not breathing, give artificial respiration. Get immediate medical advice/attention.		
First-aid measures after skin contact :	: Wash with plenty of soap and water. Get immediate medical advice/attention.		
First-aid measures after eye contact :	: Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.		
First-aid measures after ingestion :	<ul> <li>Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.</li> </ul>		
4.2. Most important symptoms and effects	, both acute and delayed		
Symptoms/injuries :	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.		
4.3. Indication of any immediate medical a	attention and special treatment needed		

### Treat symptomatically.

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SECTION 5: Firefighting measures	S
5.1. Extinguishing media	
Suitable extinguishing media	: Alcohol resistant foam. Carbon dioxide. Dry powder. Water spray. Use extinguishing media appropriate for surrounding fire.
5.2. Special hazards arising from the	substance or mixture
Fire hazard	: Thermal decomposition generates: Carbon oxides. Hydrogen chloride.
Explosion hazard	: Risk of explosion if heated under confinement. Use water spray or fog for cooling exposed containers. May form flammable/explosive vapor-air mixture.
5.3. Advice for firefighters	
Firefighting instructions	: In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection during firefighting	: Wear gas tight chemically protective clothing in combination with self contained breathing apparatus. For further information refer to section 8: "Exposure controls/personal protection".
SECTION 6: Accidental release me	easures
6.1. Personal precautions, protective	equipment and emergency procedures
General measures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
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".
Emergency procedures	: Gas/vapor heavier than air. May accumulate in confined spaces, particularly at or below ground
	level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of ignition.
6.2. Environmental precautions	level. Consider the risk of potentially explosive atmospheres. Eliminate every possible source of
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8.1. Control parameters	rols/personal protection	
2-Chlorotoluene (95-49-8)		
	GIH TWA (ppm)	50 ppm
	mark (ACGIH)	URT, eye, & skin irr
8.2. Exposure controls		
Appropriate engineering controls	: Ensure good ventilation	on of the work station. Emergency eye wash fountains and safety shower
Appropriate engineering controls		the immediate vicinity of any potential exposure.
Hand protection	: Protective gloves. 29	CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or s	afety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection.
Skin and body protection	: Wear suitable protecti	ve clothing.
Respiratory protection	: In case of inadequate	ventilation wear respiratory protection. 29 CFR 1910.134: Respiratory
	Protection.	
Other information	: Safety shoes. 29 CFR	1910.136: Foot Protection.
SECTION 9: Physical and c	hemical properties	
	vsical and chemical properties	
Physical state	: Liquid	
Appearance	: Colorless liquid.	
Color	: Colorless	
Odor	: No data available	
Odor threshold	: No data available	
pH	: No data available	
Melting point	: -36 °C	
Freezing point	: No data available	
Boiling point	: 157 - 159 °C	
Flash point	: 42 °C	
Relative evaporation rate (butyl acet	-	
Flammability (solid, gas)	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
Vapor pressure	: 3.5 hPa (at 20 °C)	
	: No data available	
Relative density		
Relative vapor density at 20 °C	: No data available	
Specific gravity / density	: 1.0826 g/ml (@ 20 °C	)
Molecular mass	: 126.583 g/mol	) °C)
Solubility	: Water: 0.047 g/l (at 20 : 3.42	
Log Pow		
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	

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

### 10.1. Reactivity

No additional information available

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10.2.	Chemical stability
The pro	duct is stable at normal handling and storage conditions.
10.3.	Possibility of hazardous reactions
No addi	itional information available
10.4.	Conditions to avoid
Keep av	way from heat, sparks and flame.
10.5.	Incompatible materials
Strong	oxidizing agents.
10.6.	Hazardous decomposition products
Under	

Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.

SECTION 11: Toxicological information	
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### 11.1. Information on toxicological effects

Acute toxicity	: Oral: Not classified. Dermal: Not classified. Inhalation:vapour: Harmful if inhaled.	
2-Chlorotoluene (95-49-8)		
LD50 oral rat	3227 mg/kg	
LD50 dermal rabbit	> 2165 mg/kg	
ATE US (oral)	3227.000 mg/kg body weight	
ATE US (vapors)	11.000 mg/l/4h	
Skin corrosion/irritation	: Causes skin irritation.	
Serious eye damage/irritation	: Causes serious eye irritation.	
Respiratory or skin sensitization	: Not classified	
Germ cell mutagenicity	: Not classified	
Carcinogenicity	: Not classified	
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.	
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.	
Specific target organ toxicity (repeated exposure)	: Not classified	
Aspiration hazard	: Not classified	

SECT	ION 12: Ecological information		
12.1.	Toxicity		
2-Chl	orotoluene (95-49-8)		
LC50	fish 1	70 - 100 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])	
12.2.	Persistence and degradability		
No add	No additional information available		
10.0	Pieseeumulative notential		

12.3. Bioaccumulative potential		
2-Chlorotoluene (95-49-8)		
BCF fish 1	20 - 112	
Log Pow	3.42	
12.4. Mobility in soil		

No additional information available

### 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations			
13.1. Waste treatment methods			
Waste treatment methods	: Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber.		

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Waste disposal recommendations

Additional information

Dispose of contents/container in accordance with licensed collector's sorting instructions.
Recycle the material as far as possible.

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

### Department of Transportation (DOT)

In accordance with DOT Transport document description

UN-No.(DOT)
Proper Shipping Name (DOT)
Transport hazard class(es) (DOT)
Hazard labels (DOT)

Packing group (DOT) Dangerous for the environment Marine pollutant

DOT Packaging Non Bulk (49 CFR 173.xxx)
DOT Packaging Bulk (49 CFR 173.xxx)
DOT Special Provisions (49 CFR 172.102)

:	UN2238	Chlorotoluenes,	3.	ш
	0	0	٠,	

- : UN2238
- : Chlorotoluenes
- : 3 Class 3 Flammable and combustible liquid 49 CFR 173.120
- : 3 Flammable liquid







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B1 - If the material has a flash point at or above 38 C (100 F) and below 93 C (200 F), then the bulk packaging requirements of 173.241 of this subchapter are applicable. If the material has a flash point of less than 38 C (100 F), then the bulk packaging requirements of 173.242 of this subchapter are applicable.
IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). 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, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).

T2 - 1.5 178.274(d)(2) Normal...... 178.275(d)(3) TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = 97 / 1 + a (tr - tf) Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

		during transport, and this the temperature in degrees ceisids of the liquid during hinnig.
DOT Packaging Exceptions (49 CFR 173.xxx)	:	150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	:	60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	220 L
DOT Vessel Stowage Location	:	A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.
Other information	:	No supplementary information available.
TDG		
No additional information available		
-		

#### Transport by sea

UN-No. (IMDG)	: 2238
Proper Shipping Name (IMDG)	: CHLOROTOLUENES
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger

### Air transport

IATA)

: 2238

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Proper Shipping Name (IATA)	: Chlorotoluenes
Class (IATA)	: 3 - Flammable Liquids
Packing group (IATA)	: III - Minor Danger

### SECTION 15: Regulatory information

### 15.1. US Federal regulations

2-Chlorotoluene (95-49-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations		
CANADA		
2-Chlorotoluene (95-49-8)		
Listed on the Canadian DSL (Domestic Sustances List)		
WHMIS Classification	Class B Division 3 - Combustible Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects	

#### **EU-Regulations**

No additional information available

#### **National regulations**

2-Chlorotoluene (95-49-8)
isted on the AICS (Australian Inventory of Chemical Substances)
isted on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)
isted on the Japanese ENCS (Existing & New Chemical Substances) inventory
isted on the Japanese ISHL (Industrial Safety and Health Law)
isted on the Korean ECL (Existing Chemicals List)
isted on NZIoC (New Zealand Inventory of Chemicals)
isted on PICCS (Philippines Inventory of Chemicals and Chemical Substances)
lapanese Pollutant Release and Transfer Register Law (PRTR Law)
isted on the Canadian IDL (Ingredient Disclosure List)
isted on INSQ (Mexican national Inventory of Chemical Substances)
isted on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations	
2-Chlorotoluene (95-49-8)	
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

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer and/or reproductive harm

### **SECTION 16: Other information**

### Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Full text of H-phrases:	
Acute Tox. 4 (Inhalation:vapour)	Acute toxicity (inhalation:vapour) Category 4
Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Acute 3	Hazardous to the aquatic environment - Acute Hazard Category 3
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2
Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids Category 3
Repr. 2	Reproductive toxicity Category 2
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H361	Suspected of damaging fertility or the unborn child
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H411	Toxic to aquatic life with long lasting effects

NFPA health hazard	: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard	: 2 - Must be moderately heated or exposed to relatively high temperature before ignition can occur.
NFPA reactivity	: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.
HMIS III Rating	
Health	: 1 Slight Hazard - Irritation or minor reversible injury possible
	* - Chronic (long-term) health effects may result from repeated overexposure
Flammability	2 Moderate Hazard - Materials which must be moderately heated or exposed to high ambient temperatures before ignition will occur. Includes liquids having a flash point at or above 100 F but below 200 F. (Classes II & IIIA)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

#### SDS US (GHS HazCom 2012)

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is offered solely for your consideration, investigation, and verification. It does not represent any guarantee of the properties of the product nor that the hazard precautions or procedures described are the only ones which exist. SynQuest shall not be held liable or any damage resulting from handling or from contact with the above product.