

Safety Data Sheet 1700103 according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 06/06/2018 Version: 1.0

SECTION 1: Identification	
1.1. Identification	
Product form	: Substance
Substance name	: Mesitylene
CAS No	: 108-67-8
Product code	: 1700-1-03
Formula	: C9H12
Synonyms	: Benzene, 1,3,5-trimethyl- / 3,5-Dimethyltoluene / Mesitylene / sym-Trimethylbenzene / Trimethylbenzene, 1,3,5- / 1,3,5-Trimethylbenzen
Other means of identification	: MFCD00008538
1.2. Relevant identified uses of the s	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 saf	ety data sheet
SynQuest Laboratories, Inc. P.O. Box 309 Alachua, FL 32615 - United States of Americ T (386) 462-0788 - F (386) 462-7097 info@synquestlabs.com - www.synquestlabs	
1.4. Emergency telephone number	
Emergency number	: (844) 523-4086 (3E Company - Account 10069)
SECTION 2: Hazard(s) identificati	on
2.1. Classification of the substance of	or mixture
Classification (GHS-US)	
Aquatic Acute 2 H401 - Toxic to aquatic	swallowed and enters airways
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	: GHS02 GHS07 GHS08 GHS09
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	 H226 - Flammable liquid and vapor H304 - May be fatal if swallowed and enters airways H315 - Causes skin irritation H319 - Causes serious eye irritation
	H335 - May cause respiratory irritation H411 - Toxic to aquatic life with long lasting effects
Precautionary statements (GHS-US)	

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		P271 - Use only outdoors or in a well-ventilated area
		P273 - Avoid release to the environment
		 P273 - Avoid release to the environment P280 - Wear protective gloves/protective clothing/eye protection/face protection P301+P310 - If swallowed: Immediately call a poison center/doctor/ P302+P352 - If on skin: Wash with plenty of soap and water P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P321 - Specific treatment (see supplemental first aid instructions on this label) P331 - Do NOT induce vomiting P332+P313 - If skin irritation occurs: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P370+P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish P391 - Collect spillage
		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 an approved waste disposal plant
2.3.	Other hazards	
No add	ditional information available	

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substance

: Mono-constituent Substance type

Name	Product identifier	%	Classification (GHS-US)
Mesitylene (Main constituent)	(CAS No) 108-67-8	<= 100	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Acute 2, H401 Aquatic Chronic 2, H411

Full text of H-phrases: see section 16

3.2.	Mixture
Not app	licable

. lot applicable		
SECTION 4: First aid measures		
4.1. Description of first aid measures		
First-aid measures general	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.	
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	: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth out with water. Get immediate medical advice/attention.	
4.2. Most important symptoms and effects	s, 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	Indication of any immediate medical attention and special treatment needed	
Treat symptomatically.		

SECTION 5: Firefighting measures 5.1. **Extinguishing media** Suitable extinguishing media : Dry powder. Use extinguishing media appropriate for surrounding fire.

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5.2. Spec	Special hazards arising from the substance or mixture		
Fire hazard		:	Thermal decomposition generates: Carbon oxides.
Explosion haza	ırd	:	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. Advid	ce for firefighters		
Firefighting inst	tructions	:	In case of fire: Evacuate area. Fight fire remotely due to the risk of explosion.
Protection durin	ng 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 measures			
6.1. Pe	1. Personal precautions, protective equipment and emergency procedures		
General mea	asures	: Evacuate unnecessary personnel. Ensure adequate air ventilation. Do not breathe gas, fumes, vapor or spray.	
6.1.1. For non-emergency personnel			
Emergency p	procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.	
6.1.2. Fo	r 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. En	vironmental precautions		
Avoid release to the environment. Notify authorities if product enters sewers or public waters.			

6.3.	Methods and material for containment and cleaning up		
For conta	ainment	: Stop leak if safe to do so. Dike for recovery or absorb with appropriate material.	
Methods	for cleaning up	: Take up large spills with pump or vacuum and finish with dry chemical absorbent. Use explosion-proof equipment. Take up small spills with dry chemical absorbent. Sweep or shovel spills into appropriate container for disposal. Ventilate area.	
Other inf	ormation	: For disposal of solid materials or residues refer to section 13 : "Disposal considerations".	

6.4. Reference to other sections

SECTION 7: Handling and storage			
7.1. Precautions for safe handling			
Additional hazards when processed	: Handle empty containers with care because residual vapors are flammable.		
Precautions for safe handling	: Do not handle until all safety precautions have been read and understood. Ensure good ventilation of the work station. Do not breathe fumes, mist, spray, vapors. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from ignition sources (including static discharges). Proper grounding procedures to avoid static electricity should be followed. Use only non-sparking tools.		
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.		
7.2. Conditions for safe storage, includi	ng any incompatibilities		
Technical measures	: Comply with applicable regulations.		
Storage conditions	: Keep container closed when not in use. Keep away from ignition sources. Keep contents under inert gas.		
Incompatible materials	: Refer to Section 10 on Incompatible Materials.		
Storage area	: Store in dry, cool, well-ventilated area.		

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Appropriate engineering controls

: Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

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Hand protection	: Protective gloves. 29 CFR 1910.138: Hand Protection.
Eye protection	: Chemical goggles or safety glasses. Face shield. 29 CFR 1910.133: Eye and Face Protection
Skin and body protection	: Wear suitable protective 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 chemical properties

9.1. Information on basic physical and c	hemical properties
Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Color	: Clear Colorless
Odor	: distinctive aromatic
Odor threshold	: No data available
рН	: No data available
Melting point	: -45 °C
Freezing point	: No data available
Boiling point	: 163 - 166 °C (@ 760 mm Hg)
Flash point	: 53 °C
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: 1.86 mm Hg (at 20 °C)
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 0.8637 g/ml (@ 20 °C)
Molecular mass	: 120.1916 g/mol
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: 559 °C
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
9.2. Other information	
Refractive index	: 1.4952 (@ 20 °C)

SECTION 10: Stability and reactivity		
10.1.	Reactivity	
No addit	ional information available	
10.2.	Chemical stability	
The product is stable at normal handling and storage conditions.		
10.3.	Possibility of hazardous reactions	
No additional information available		
10.4.	Conditions to avoid	
Keep away from heat, sparks and flame.		
10.5.	Incompatible materials	
Strong oxidizing agents.		
10.6.	Hazardous decomposition products	
Under normal conditions of storage and use, hazardous decomposition products should not be produced. Hazardous decomposition products in case of fire, see Section 5.		

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

: Inhalation:vapour: Not classified.

Mesitylene (108-67-8)	
LC50 inhalation rat (mg/l)	24 g/m ³ (Exposure time: 4 h)
ATE US (vapors)	24.000 mg/l/4h
ATE US (dust, mist)	24.000 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	: Not classified
Specific target organ toxicity (single exposure)	: May cause respiratory irritation.
Specific target organ toxicity (repeated exposure)	: Not classified
Aspiration hazard	: May be fatal if swallowed and enters airways.

SECTION 12: Ecological information		
12.1.	Toxicity	
Mesity	rlene (108-67-8)	
LC50 f	ish 1	3.48 mg/l (Exposure time: 96 h - Species: Pimephales promelas)
12.2.	Persistence and degradability	
No additional information available		
12.3.	Bioaccumulative potential	
No additional information available		
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 Waste disposal recommendations Additional information	 Remove to an authorized incinerator equipped with an afterburner and a flue gas scrubber. 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	: UN2325 1,3,5-Trimethylbenzene, 3, III
UN-No.(DOT)	: UN2325
Proper Shipping Name (DOT)	: 1,3,5-Trimethylbenzene
Transport hazard class(es) (DOT)	: 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120

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Hazard labels (DOT)	: 3 - Flammable liquid
Packing group (DOT)	: III - Minor Danger
Dangerous for the environment	: Yes : Yes
Marine pollutant	
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Special Provisions (49 CFR 172.102)	 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
	during transport, and tf is the temperature in degrees celsius of the liquid during filling.
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.
Emergency Response Guide (ERG) Number	: 129
Other information	: No supplementary information available.
TDG	
No additional information available	
Transport by sea	
UN-No. (IMDG)	: 2325
Proper Shipping Name (IMDG)	: 1,3,5-TRIMETHYLBENZENE
Class (IMDG)	: 3 - Flammable liquids
Packing group (IMDG)	: III - substances presenting low danger
Air transport	
UN-No. (IATA)	: 2325
Proper Shipping Name (IATA)	: 1,3,5-Trimethylbenzene
Class (IATA) Packing group (IATA)	: 3 - Flammable Liquids : III - Minor Danger

15.1. US Federal regulations

Mesitylene (108-67-8)

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

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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		
Mesitylene (108-67-8)		
Listed on the Canadian DSL (Domestic Sustance	s List)	
WHMIS Classification	Class B Division 3 - Combustible Liquid	
National regulations Mesitylene (108-67-8)		
Listed on NZIoC (New Zealand Inventory of Chemicals)		

Listed on PICCS (Philippines Inventory of Chemicals and Chemical Substances)

Japanese Pollutant Release and Transfer Register Law (PRTR Law)

Listed on the Canadian IDL (Ingredient Disclosure List)

Listed on INSQ (Mexican national Inventory of Chemical Substances)

Listed on Turkish inventory of chemical

Listed on the TCSI (Taiwan Chemical Substance Inventory)

15.3. US State regulations

Mesitylene	(108-67-8)
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State or local regulations

U.S. - Massachusetts - 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

Full text of H-phrases:

Aquatic Acute 2	Hazardous to the aquatic environment - Acute Hazard Category 2
Aquatic Chronic 2	Hazardous to the aquatic environment - Chronic Hazard Category 2 Hazardous to the aquatic environment - Chronic Hazard Category 2
Aquate Gritonic 2 Asp. Tox. 1	Aspiration hazard Category 1
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Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids Category 3
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H226	Flammable liquid and vapor
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H401	Toxic to aquatic life
H411	Toxic to aquatic life with long lasting effects

: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt

: 2 - Must be moderately heated or exposed to relatively high

: 0 - Normally stable, even under fire exposure conditions,

NFPA health hazard

NFPA fire hazard

NFPA reactivity

medical attention is given.

temperature before ignition can occur.

and are not reactive with water.

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: 2 Moderate Hazard - Temporary or minor injury may occur
* - Chronic (long-term) health effects may result from repeated overexposure
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)
: 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.