

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

<b>SECTION 1: Identification</b>	
1.1. Identification	
Product form	: Substance
Substance name	: 2,4-Dimethylphenol
CAS-No.	: 105-67-9
Product code	: (US) W2422
Formula	: C8H10O
Synonyms	: 2,3-Dimethylphenol / Dimethylphenol, 2,4- / Xylenol, 2,4- / 2,4-Xylenol / m-Xylenol / Phenol, 2,4- dimethyl- / 1-Hydroxy-2,4-dimethylbenzene

#### Recommended use and restrictions on use 1.2.

No additional information available

#### Supplier 1.3.

Synerzine 5340 Hwy 42 S Ellenwood, Georgia 30294 - USA T 404-524-6744 - F 404-577-1651 info@synerzine.com - www.synerzine.com

#### 1.4. Emergency telephone number

Emergency number

2.1.

: Infotrac 1-800-535-5053 (Contract# 102471) Dial +1-352-323-3500 when outside the US

### SECTION 2: Hazard(s) identification

Classification of the substance or mixture

GHS-US classification		
Acute toxicity (oral) Category 3	H301	Toxic if swallowed
Acute toxicity (dermal) Category 3	H311	Toxic in contact with skin
Skin corrosion/irritation Category 1B	H314	Causes severe skin burns and eye damage
Serious eye damage/eye irritation Category 1	H318	Causes serious eye damage
Hazardous to the aquatic environment - Chronic Hazard Category 2	H411	Toxic to aquatic life with long lasting effects

Full text of H statements : see section 16

2.2. GHS Label elements, includ	ing precautionary statements
GHS-US labeling	
Hazard pictograms (GHS-US)	
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	<ul> <li>H301+H311 - Toxic if swallowed or in contact with skin</li> <li>H314 - Causes severe skin burns and eye damage</li> <li>H318 - Causes serious eye damage</li> <li>H411 - Toxic to aquatic life with long lasting effects</li> </ul>
Precautionary statements (GHS-US)	<ul> <li>P260 - Do not breathe dust.</li> <li>P264 - Wash hands, forearms and face 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+P310 - If swallowed: Immediately call a doctor, a POISON CENTER</li> <li>P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting</li> <li>P302+P352 - If on skin: Wash with plenty of water</li> </ul>

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- 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
  - P310 Immediately call a doctor, a POISON CENTER
  - P312 Call a doctor, a POISON CENTER if you feel unwell
  - P321 Specific treatment (see supplemental first aid instructions on this label)
  - P330 Rinse mouth.
  - P361 Take off immediately all contaminated clothing.
  - P363 Wash contaminated clothing before reuse.
  - P391 Collect spillage.
  - P405 Store locked up.
  - P501 Dispose of contents/container to an approved waste disposal plant

### 2.3. Other hazards which do not result in classification

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No additional information available
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2.4. Unknown acute toxicity (GHS US)

#### Not applicable

### SECTION 3: Composition/Information on ingredients

3.1. Substances			
Name	Product identifier	%	GHS-US classification
2,4-Dimethylphenol (Main constituent)	(CAS-No.) 105-67-9	98 - 100	Acute Tox. 3 (Oral), H301 Acute Tox. 3 (Dermal), H311 Skin Corr. 1B, H314 Eye Dam. 1, H318 Aquatic Chronic 2, H411

Full text of hazard classes and H-statements : see section 16

3.2. Mixtures	
Not applicable	
SECTION 4: First-aid measure	S
4.1. Description of first aid me	asures
First-aid measures general	: Call a physician immediately.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Call a physician immediately.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.
First-aid measures after ingestion	: Rinse mouth. Call a physician immediately. Do not induce vomiting.
4.2. Most important symptoms	and effects (acute and delayed)
Symptoms/effects after skin contact	: Burns.
Symptoms/effects after eye contact	: Serious damage to eyes.
Symptoms/effects after ingestion	: Burns.
4.3. Immediate medical attenti	on and special treatment, if necessary
Treat symptomatically.	
SECTION 5: Fire-fighting meas	sures
5.1. Suitable (and unsuitable) e	extinguishing media
Suitable extinguishing media	: Water spray. Dry powder. Foam.
5.2. Specific hazards arising fro	om the chemical
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.

### 5.3. Special protective equipment and precautions for fire-fighters

Protection during firefighting

: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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SECTION 6: Accidental release n	neasures
5.1. Personal precautions, protect	tive equipment and emergency procedures
<b>5.1.1.</b> For non-emergency personnel Emergency procedures	: Avoid contact with skin, eyes and clothing. Do not breathe dust.
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".
5.2. Environmental precautions	
Avoid release to the environment.	
6.3. Methods and material for con	
For containment	: Collect spillage.
Methods for cleaning up Other information	<ul><li>Mechanically recover the product.</li><li>Dispose of materials or solid residues at an authorized site.</li></ul>
	. Dispose of materials of some residues at an authorized site.
6.4. Reference to other sections For further information refer to section 13.	
SECTION 7: Handling and storag	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Do not get in eyes, on skin, or on clothing. Wear
	personal protective equipment. Do not breathe dust.
Hygiene measures	: Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, i	ncluding any incompatibilities
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep cool.
SECTION 8: Exposure controls/p	ersonal protection
8.1. Control parameters	
No additional information available	
8.2. Appropriate engineering cont	rols
Appropriate engineering controls	: Ensure good ventilation of the work station.
Environmental exposure controls	: Avoid release to the environment.
8.3. Individual protection measure	es/Personal protective equipment
Hand protection:	
Protective gloves	
Eye protection:	
Safety glasses	
Skin and body protection:	
Wear suitable protective clothing	
Respiratory protection:	

In case of insufficient ventilation, wear suitable respiratory equipment

SECTION 9: Physical and chemical properties		
9.1. Information on ba	sic physical and chemical properties	
Physical state	: Solid	
Appearance	: A low-melting solid.	
Color	: yellow to brown	

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Odor	: medic odor similar to phenols and other xylenols	
Odor threshold	: No data available	
pH	: No data available	
Melting point	: 27 - 28 °C	
Freezing point	: Not applicable	
Boiling point	: 210 °C	
Flash point	: Not applicable	
Relative evaporation rate (butyl acetate=1)	: No data available	
Flammability (solid, gas)	: Non flammable.	
Vapor pressure	: 10 mm Hg (at 92.3 °C)	
Relative vapor density at 20 °C	: No data available	
Relative density	: Not applicable	
Specific gravity / density	: $1.005 - 1.015 \text{ g/cm}^3$	
Solubility	: Water: 7868 mg/l (at 25 °C)	
Log Pow	: 2.42	
Auto-ignition temperature	: Not applicable	
Decomposition temperature	: No data available	
Viscosity, kinematic	: Not applicable	
Viscosity, dynamic	: No data available	
Explosion limits	: Not applicable	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
9.2. Other information		
No additional information available		
SECTION 10: Stability and reactiv	ty	
10.1. Reactivity		
The product is non-reactive under normal conditions of use, storage and transport.		
10.2. Chemical stability		
Stable under normal conditions.		
10.3. Possibility of hazardous reactio		

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

### SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Not classified

2,4-Dimethylphenol (105-67-9)	
LD50 oral rat	2300 mg/kg
LD50 dermal rat	1040 mg/kg
ATE US (oral)	100 mg/kg body weight
ATE US (dermal)	300 mg/kg body weight
Skin corrosion/irritation	Causes severe skin burns and eye damage.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitization	Not classified

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Germ cell mutagenicity	:	Not classified
Carcinogenicity	:	Not classified
Reproductive toxicity	:	Not classified
Specific target organ toxicity – single exposure	:	Not classified
Specific target organ toxicity – repeated exposure	:	Not classified
Aspiration hazard	:	Not classified
Symptoms/effects after skin contact	:	Burns.
Symptoms/effects after eye contact	:	Serious damage to eyes.
Symptoms/effects after ingestion	:	Burns.

2.1. Toxicity	
Ecology - general	: Toxic to aquatic life with long lasting effects.
2,4-Dimethylphenol (105-67-9)	
LC50 fish 1	15.4 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	1.77 - 3.17 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	6.3 - 9.6 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])

No additional information available

12.3. Bioaccumulative potential	
2,4-Dimethylphenol (105-67-9)	
Log Pow	2.42
12.4. Mobility in soil	

No additional information available

### 12.5. Other adverse effects

No additional information available

SECTION 13: Disposal considerations	
13.1. Disposal methods	
Regional legislation (waste)	<ul> <li>U.S RCRA (Resource Conservation &amp; Recovery Act) - Basis for Listing - Appendix VII. U.S RCRA (Resource Conservation &amp; Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261.</li> <li>U.S RCRA (Resource Conservation &amp; Recovery Act) - List for Hazardous Constituents. U.S RCRA (Resource Conservation &amp; Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards. U.S. - RCRA (Resource Conservation &amp; Recovery Act) - TSD Facilities Ground Water Monitoring. U.S RCRA (Resource Conservation &amp; Recovery Act) - U Series Wastes - Acutely Toxic Wastes &amp; Other Hazardous Characteristics.</li> </ul>
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
SECTION 14: Transport infor	mation
Department of Transportation (DOT)	

In accordance with DOT	
Transport document description	: UN2261 Xylenols, solid, 6.1, II
UN-No.(DOT)	: UN2261
Proper Shipping Name (DOT)	: Xylenols, solid
Class (DOT)	: 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Packing group (DOT)	: II - Medium Danger

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Hazard labels (DOT)	: 6.1 - Poison
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Dangarous for the anvironment	
Dangerous for the environment Marine pollutant	: Yes : Yes
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DOT Packaging Non Bulk (49 CFR 173.xxx)	: 212
DOT Packaging Bulk (49 CFR 173.xxx)	: 242
DOT Special Provisions (49 CFR 172.102)	<ul> <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>IP2 - When IBCs other than metal or rigid plastics IBCs are used, they must be offered for transportation in a closed freight container or a closed transport vehicle.</li> <li>IP4 - Flexible, fiberboard or wooden IBCs must be sift-proof and water-resistant or be fitted with a sift-proof and water-resistant liner.</li> <li>T3 - 2.65 178.274(d)(2) Normal</li></ul>
DOT Packaging Exceptions (49 CFR 173.xxx)	: 153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 25 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 100 kg
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.
Transportation of Dangerous Goods	
Transport by sea	
Transport document description (IMDG)	: UN 2261 XYLENOLS, SOLID, 6.1, II, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
UN-No. (IMDG)	: 2261
Proper Shipping Name (IMDG)	: XYLENOLS, SOLID
Class (IMDG)	: 6.1 - Toxic substances
Packing group (IMDG)	: II - substances presenting medium danger
Limited quantities (IMDG)	: 500 g
Marine pollutant	: Yes
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### Air transport

Transport document description (IATA)	: UN 2261 Xylenols, solid, 6.1, II, ENVIRONMENTALLY HAZARDOUS
UN-No. (IATA)	: 2261
Proper Shipping Name (IATA)	: Xylenols, solid
Class (IATA)	: 6.1 - Toxic Substances
Packing group (IATA)	: II - Medium Danger

SECTION 15: Regulatory information	
15.1. US Federal regulations	
2,4-Dimethylphenol (105-67-9)	
Listed on the United States TSCA (Toxic Substances Control Act) inver Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	100 lb

### 15.2. International regulations

CANADA

2,4-Dimethylphenol (105-67-9)

Listed on the Canadian NDSL (Non-Domestic Substances List)

### **EU-Regulations**

2,4-Dimethylphenol (105-67-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

2,4-Dimethylphenol (105-67-9)	
Listed on the AICS (Australian Inventory of Chemical Substances)	
Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)	
Listed on the Japanese ENCS (Existing & New Chemical Substances) inventory	
Listed on the Japanese ISHL (Industrial Safety and Health Law)	
Listed on the Korean ECL (Existing Chemicals List)	
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 INSQ (Mexican National Inventory of Chemical Substances)	
Listed on CICR (Turkish Inventory and Control of Chemicals)	
Listed on the TCSI (Taiwan Chemical Substance Inventory)	

2,4-Dimethylphenol (105-67-9)	
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) - Environmental Hazard List U.S Pennsylvania - RTK (Right to Know) List

### SECTION 16: Other information

Full text of H-phrases:

H301	Toxic if swallowed
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H411	Toxic to aquatic life with long lasting effects

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NFPA health hazard	: 3 - Materials that, under emergency conditions, can cause serious or permanent 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.	
Hazard Rating		
Health	: 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given	
Flammability	: 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)	
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.	
Personal protection	: G	
	G - Safety glasses, Gloves, Vapor respirator	

Synerzine US

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