SAFETY DATA SHEET

Revision Date 01-Jan-2019 Revision Number 3

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier
Product Description: 1,3,5-Trimethylbenzene
Cat No. 125580000; 125580010; 125580050; 125582500
Synonyms: Mesitylene

Relevant identified uses of the substance or mixture and uses advised against
Recommended Use Laboratory chemicals
Uses advised against No Information available

Details of the supplier of the safety data sheet

Company
Aquachem Industrial Limited.
Qixiashan, Qixia district, Nanjing, Jiangsu, P.R. China, 210033
Tel: +86-25-8435-3911; +86-180-2010-7007
E-mail address: info@aquachemi.com

Emergency Telephone Number

For information call: +86-25-84353911

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture REGULATION (EC) No 1272/2008

<table>
<thead>
<tr>
<th>Specific target organ systemic toxicity (single exposure)</th>
<th>Category 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chronic aquatic toxicity</td>
<td>Category 2</td>
</tr>
<tr>
<td>Flammable liquids</td>
<td>Category 3</td>
</tr>
</tbody>
</table>

Classification according to EU Directives 67/548/EEC or 1999/45/EC
For the full text of the R phrases mentioned in this Section, see Section 16

Symbol(s)  
Xi - Irritant
N - Dangerous for the environment

R -phrase(s)  
R10 - Flammable
R37 - Irritating to respiratory system

Risk Combination Phrases
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Label Elements
Signal Word

Warning

Hazard Statements
H411 - Toxic to aquatic life with long lasting effects
H335 - May cause respiratory irritation
H226 - Flammable liquid and vapor
Environment Hazard: It is harmful to the aquatic environment.

Precautionary Statements - EU (§28, 1272/2008)
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
P273 - Avoid release to the environment
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
Environment Hazard: It is harmful to the aquatic environment.

Other Hazards
No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS #</th>
<th>EINECS #:</th>
<th>Weight %</th>
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<tbody>
<tr>
<td>1,3,5-Trimethylbenzene</td>
<td>108-67-8</td>
<td>203-604-4</td>
<td>99.0% min</td>
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<tr>
<td>1,2,4-Trimethylbenzene</td>
<td>95-63-6</td>
<td>202436-9</td>
<td>0.5% max</td>
</tr>
</tbody>
</table>

For the full text of the R phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

Description of first aid measures  Eye Contact
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes Obtain medical attention

Skin Contact
Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes Obtain medical attention

Ingestion
Clean mouth with water Get medical attention

Inhalation
Remove from exposure, lie down Move to fresh air If breathing is difficult, give oxygen If not breathing, give artificial respiration Obtain medical attention

Notes to Physician
Treat symptomatically

5. FIRE-FIGHTING MEASURES
Extinguishing media

Suitable Extinguishing Media
Water spray Carbon dioxide (CO2) Dry chemical chemical foam

Extinguishing media which must not be used for safety reasons
No information available.

Special hazards arising from the substance or mixture
Flammable

Advice for fire-fighters
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Ensure adequate ventilation

Environmental precautions
Prevent further leakage or spillage if safe to do so

Methods and material for containment and cleaning up
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust) Keep in suitable and closed containers for disposal Remove all sources of ignition Use spark-proof tools and explosion-proof equipment Do not let this chemical enter the environment

7. HANDLING AND STORAGE

Precautions for Safe Handling
Avoid contact with skin and eyes Do not breathe dust Do not breathe vapors or spray mist Do not ingest Use explosion-proof equipment Use only non-sparking tools

Conditions for safe storage, including any incompatibilities
Keep in a dry, cool and well-ventilated place Keep container tightly closed Keep away from heat and sources of ignition Flammables area

Specific End Uses

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters
Exposure limits

Derived No Effect Level (DNEL) No information available.
Predicted No Effect Concentration (PNEC) No information available.

Exposure controls
Engineering Measures
Ensure adequate ventilation, especially in confined areas Ensure that eyewash stations and safety showers are close to the workstation location

Personal protective equipment
Eye Protection Goggles
Hand Protection Protective gloves
Skin and body protection
Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory Protection
Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures
Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls
No information available.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State
Liquid

Appearance
Colorless, transparent with odor.

odor
Aromatic

pH
No information available.

Vapor Pressure
2.5 mbar @ 20 °C

Vapor Density
4.1 (Air = 1.0)

Boiling Point/Range
163 - 167°C / 325.4 - 332.6°F @ 760 mmHg

Melting Point/Range
-45°C / -49°F

Flash Point
44°C / 111.2°F

Explosion Limits
Lower 1%
Upper 6%

Water Solubility
2.9 g/L (20°C)

Specific Gravity
0.868

Molecular Formula
C9 H12

Molecular Weight
120.19

Viscosity
No information available

Other information

Dynamic viscosity
0.53 mPa.s (122 °F (50 °C))

Flash point class
Combustible II

Heat of vaporization
39.0 kJ/mol @ boiling point

Kinematic viscosity
0.63 mm²/s (122 °F (50 °C))

Molecular formula
C9-H12

Molecular weight
120.19 g/mol

Specific gravity
0.87

Surface tension
28.83 mN/m (68 °F (20 °C))

10. STABILITY AND REACTIVITY

Reactivity
Chemical Stability
Stable under normal conditions.

Possibility of Hazardous Reactions

Hazardous Polymerization
Hazardous polymerization does not occur.

Hazardous Reactions
No information available.

Conditions to Avoid
Keep away from open flames, hot surfaces and sources of ignition, Incompatible products.

Incompatible Materials
Strong oxidizing agents.

**Hazardous Decomposition Products**
Carbon monoxide (CO). Carbon dioxide (CO₂).

### 11. TOXICOLOGICAL INFORMATION

**Information on Toxicological Effects**

**Toxicity**

| Inhalation | May cause irritation to the respiratory system. |
| Skin contact | May be irritating to the skin. |
| Eye contact | Liquid or vapors may irritate the eyes. |
| Ingestion | May be harmful if swallowed and enters airways. Ingestion may cause nausea, vomiting, sorethroat, stomach-ache and eventually lead to a perforation of the intestine. |

**Symptoms related to the physical, chemical and toxicological characteristics**

Vapors may cause irritation to the eyes, respiratory system and the skin.

**Information on toxicological effects**

**Acute toxicity**

Vapors may cause irritation to the eyes, respiratory system and the skin. Maybe harmful if swallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Dermal Acute**

| LD50 Rat | 2000 mg/kg |
| LC50 Rat | 24000 mg/m³, 4 hours |
| Oral | 5000 mg/kg |

**Skin corrosion/irritation**

May be irritating to the skin.

**Serious eye damage/eye irritation**

Liquid or vapors may irritate the eyes.

**Respiratory or skin sensitization**

**Respiratory sensitization**

Not classified.

**Skin sensitization**

May cause sensitization by skin contact.

**Germ cell mutagenicity**

Not classified.

**Carcinogenicity**

Not classified.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Not listed.


Not regulated.

**US. National Toxicology Program (NTP) Report on Carcinogens**

Not listed.

**Reproductive toxicity**

Not classified.

**Specific target organ toxicity - single exposure**

Narcotic effects.

**Specific target organ toxicity - repeated exposure**

Not classified.

**Aspiration hazard**

May be harmful if swallowed and enters airways.

**Chronic effects**

Prolonged exposure may cause chronic effects.

**Further information**

The toxicological properties of this product have not been thoroughly investigated. Use appropriate precautions. Symptoms may be delayed.
12. ECOLOGICAL INFORMATION

Persistence and degradability
No information available

Bioaccumulative potential
No information available.

Mobility in soil
No information available.

Results of PBT and vPvB assessment
No information available.

Other adverse effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

| Waste from Residues / Unused Products | Dispose of in accordance with local regulations |
| Contaminated Packaging                | Empty containers should be taken for local recycling, recovery or waste disposal |

14. TRANSPORT INFORMATION

IMDG/IMO

<table>
<thead>
<tr>
<th>UN-No</th>
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<tbody>
<tr>
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<td>Packing Group</td>
<td>III</td>
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<td>Proper Shipping Name</td>
<td>1,3,5-TRIMETHYLBENZENE</td>
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ADR

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IATA

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15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

Legend

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
EINECS/ELINCS - European Inventory Lists
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
PICCS - Philippines Inventory of Chemicals and Chemical Substances
ENCS - Japan Existing and New Chemical Substances
China - China Inventory of Existing Chemical Substances
AICS - Inventory of Chemical Substances
KECL - Existing and Evaluated Chemical Substances

Chemical Safety Assessment

16. OTHER INFORMATION

Text of R phrases mentioned in Section 2-3
R10 - Flammable
R37 - Irritating to respiratory system
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

Revision Date 01-Jan-2019
Revision Summary Not applicable

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 Disclaimer
The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text

End of Safety Data Sheet