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

Specific target organ systemic toxicity (single exposure)	Category 3
Chronic aquatic toxicity	Category 2
Flammable liquids.	Category 3

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/INFORMA TION ON INGREDIENTS

Chemical Name	CAS #	EINECS #:	Weight %
1,3,5-Trimethylbenzene	108-67-8	203-604-4	99.0% min
1,2,4-Trimethylbenzene	95-63-6	202436-9	0.5% max

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 exposureFollow
Respiratory Protection	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	
Environmental exposure controls	Handle in accordance with good industrial hygiene and safety practice 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 (CO_2).

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 ifswallowed and enters airways. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Dermal Acute	LD50 Rat 2000 mg/kg
Inhalation	LC50 Rat 24000 mg/m3, 4 hours
Oral	LD50 Rat 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.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

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
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

UN-No	2325
Hazard Class	3
Packing Group	III
Proper Shipping Name	1,3,5-TRIMETHYLBENZENE

ADR

UN-No	2325
Hazard Class	3
Packing Group	III
Proper Shipping Name	1,3,5-TRIMETHYLBENZENE

IATA

UN-No	2325
Hazard Class	3
Packing Group	III
Proper Shipping Name	1,3,5-TRIMETHYLBENZENE

15. REGULATORY INFORMATION

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

International Inventories
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
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End of Safety Data Sheet