AK Scientific, Inc.

Safety Data Sheet (United States) 2,2,4(2,4,4)-Trimethyl-1,6-hexanediamine

1.Identification	
Product name:	2,2,4(2,4,4)-Trimethyl-1,6-hexanediamine
Catalog#:	1419AQ
IUPAC name:	2,2,4-Trimethyl-1,6-hexanediamine - 2,4,4-trimethyl-1,6-hexanediamine (1:1)
Product use restrictions:	Only for research and development use by, or directly under the supervision of, a technically qualified individual.
Company:	AK Scientific, Inc.
1	30023 Ahern Ave.
	Union City, CA 94587
Telephone:	(510) 429-8835
Fax:	(510) 429-8836
Website:	www.aksci.com
Emergency contact number	:: 1-800-633-8253 United States & Canada
	1-801-629-0667 International

2.Hazard Identification:

GHS Classification (United States)

Acute toxicity, Oral (Category 4) Skin corrosion (Category 1B) Serious eye damage (Category 1) Skin sensitization (Category 1) Short-term (acute) aquatic hazard (Category 3) Long-term (chronic) aquatic hazard (Category 3)

Pictogram(s)



Signal word:

Danger

Hazard statement(s)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statement(s):

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P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
P264	Wash skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312+P330	If swallowed: Call a poison center or doctor if you feel unwell. Rinse mouth.
P30+P330+P331	-
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated
	clothing. Rinse skin with water/shower.
P304+P340+P310	-
P305+P351+P338+P310	If in eyes: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing. Immediately call a poison
	center or doctor.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.	
P363 Wash contaminated clothing before reuse.	
P405 Store locked up.	
P501 Dispose of contents/container to an approved waste disposal p	olant.

Hazards not otherwise classified (HNOC) or not covered by GHS: None

3.Composition/Information on Ingredients		
Synonyms:	Not available.	
CAS#:	25620-58-0	
Purity:	99%	
EC:	247-134-8	

4. First Aid Measures

General Information: Immediately remove any clothing contaminated by the product. Move out of dangerous area. Consult a physician and show this safety data sheet.

Inhalation: Move person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Obtain medical aid.

Skin contact: Immediately flush skin with running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Obtain medical aid immediately.

Eye contact: Immediately flush open eyes with running water for at least 15 minutes. Obtain medical aid immediately.

Ingestion: Do NOT induce vomiting without medical advice. Rinse mouth with water. Never administer anything by mouth to an unconscious person. Obtain medical aid immediately.

Most important symptoms and effects, both acute and delayed: No further information available. Please see sections 2 and 11.

Indication of any immediate medical attention and special treatment needed: No further information available.

5. Fire Fighting Measures

Suitable extinguishing media: Use water spray, dry chemical, carbon dioxide, or chemical foam. Specific hazards arising from the chemical: Carbon oxides, Nitrogen oxides.

Advice for firefighters: As in any fire, wear a NIOSH-approved or equivalent, pressure-demand, self-contained breathing apparatus and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Wear protective equipment and keep unprotected personnel away. Ensure adequate ventilation. Remove all sources of ignition. Prevent further leak or spill if safe to do so. For personal protective equipment, please refer to section 8.

Environmental precautions: Do not let product enter drains, other waterways, or soil.

Methods and materials for containment and cleaning up: Prevent further leak or spill if safe to do so. Vacuum, sweep up, or absorb with inert material and place into a suitable disposal container. Consult local regulations for disposal. See section 13 for further disposal information.

7. Handling and Storage

Precautions for safe handling: Avoid contact with skin, eyes, and personal clothing. Wash hands

thoroughly after handling. Avoid breathing fumes. Use only with adequate ventilation. Wear suitable protective clothing, gloves, and eye/face protection. Keep away from sources of ignition. Minimize dust generation and accumulation. Keep container tightly closed. Open and handle container with care. Do not eat, drink, or smoke while handling.

Conditions for safe storage, including any incompatibilities: Store in a tightly-closed container when not in use. Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from sources of ignition. ,Store long-term in a cool, dry place.

8. Exposure Controls/Personal Protection

Exposure limits:

OSHA PEL:Not available.NIOSH REL:Not available.ACGIH TLV:Not available.

Appropriate engineering controls: Avoid contact with skin, eyes, and clothing. Wash hands before breaks and immediately after handling the product. Facilities storing or utilizing this material should be equipped with an eyewash fountain. Use adequate general and local exhaust ventilation to keep airborne concentrations low.

Not Available.
Not Available.
Not Available.
Not Available.

9. Physical and Chemical Properties	
Physical State:	Liquid
Molecular Formula:	C18H44N4
Molecular Weight:	316.56
Odor:	Not available.
pH:	Not available.
Boiling Point Range:	232°C
Freezing/Melting Point:	Not available.
Flash Point:	104°C
Evaporation Rate:	Not available.
Flammability(solid,gas):	Please see section 2.
Explosive limits:	Not available.
Vapor Pressure:	Not available.
Vapor Density:	Not available.
Solubility:	Not available.
Relative Density:	0.867
Refractive Index:	Not available.
Volatility:	Not available.
Auto-ignition Temperature:	Not available.
Decomposition Temperature:	Not available.
Partition Coefficient:	Not available.

10. Stability and Reactivity

Reactivity: Chemical stability: Possibility of hazardous reactions: Conditions to avoid: Incompatible materials: Hazardous decomposition products: Not available. Stable under recommended temperatures and pressures. Not available. Dust generation. Strong oxidizing agents. Carbon oxides, Nitrogen oxides. **11. Toxicological Information**

Not available.
Not available.
Inhalation,eye contact, skin contact
l and Skin contact may result in inflamn
characterized by itching, scaling, r
blistering, pain or dryness. Eye con
in redness, pain or severe eye dam
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ct, ingestion. mation reddening, ontact may result nage. Inhalation may cause irritation of the lungs and respiratory system. Overexposure may result in serious illness or death.

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Carcinogenicity	
IARC: Not classified.	
NTP: Not listed.	
OSHA: Not Available	
	eye is characterized by redness, watering, and itching. Skin acterized by itching, scaling, reddening, or, occasionally,
12. Ecological Information	
Ecotoxicity:	Not available.
Persistence and degradability:	Not available.
Bioaccumulative potential:	Not available.
Mobility in soil:	Not available.
Other adverse effects:	Not available.
13. Disposal Considerations	
Disposal of waste:	Not listed
Disposal of packaging:	Not listed
14. Transportation Information	
DOT (United States)	
UN number:	UN2327
Proper shipping name:	Trimethylhexamethylenediamines
Transport hazard class:	8;Corrosive
Packing group:	III
ΙΑΤΑ	
UN Number:	UN2327
Proper shipping name:	Trimethylhexamethylenediamines
Transport hazard class:	8;Corrosive
Packing group:	III
15. Regulatory Information	
TSCA (United States)	
Not Available.	
California Proposition 65:	Not Available

California Proposition 65: NFPA Rating:

Not Available.. Health: Flammability: Instability:

Not available. Not available. Not available.

16. Additional Information

Revision Date: 03/07/2024 Printed Date: 03/07/2024

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall AK Scientific be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if AK Scientific has been advised of the possibility of such damages.