Safety Data Sheet

1. Identification of the substance

1.1. Product identifiers:	Product Name: Hexamethylenetetramine Synonyms:		
	Catalog number: CAS Number:	QE-5199 100-97-0	
1.2. Identified use:	Laboratory chemicals, for scientific research and development only.		
1.3. Supplier:	Combi-Blocks, Inc., 7949 Silverton Ave # 915, San Diego, CA 92126, USA. Tel: 858-635-8950. Email: sales@combi-blocks.com.		
1.4. Emergency Contact:	During normal business hours (Monday-Friday 8am-5pm PST), call 1-858-635-8950. After business hours, call Infotrac at 1-800-535-5053 (USA) or 1-352-323-3500 (international).		

2. Hazards identification

2.1. Classification of the substance or mixture: GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Flammable solids (Category 1, 2), H228 Sensitisation, Skin (Category 1), H317

2.2. GHS Label elements, including precautionary statements:

Pictograms

Pictograms			
Signal word	Danger		
Hazard statement(s).			
H228	Flammable solid		
H317	May cause an allergic skin reaction		
Precautionary statement(s).			
P210	Keep away from heat/sparks/open flames/hot surfaces. No smoking.		
P240	Ground/bond container and receiving equipment.		
P241	Use explosion-proof electrical/ventilating/light equipment.		
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.		
P272	Contaminated work clothing should not be allowed out of the workplace.		
P280	Wear protective gloves/protective clothing/eye protection/face protection.		
P302+P352	If on skin: Wash with soap and water.		
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention.		
P363	Wash contaminated clothing before reuse.		
P370+P378	In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.		
P501	Dispose of contents/container to an approved waste disposal plant.		

3. Composition/information on ingredients.

3.1. Substances

Component	CLASSIFICATION	CONCENTRATION
Hexamethylenetetramine	H228, H317	≤ 100

See Section 2 for full text of hazard statements.

4. First aid measures

4.1. Description of first aid measures.

General advice:	Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.
If inhaled:	Remove victim to fresh air. In severe cases or if symptoms persist, seek medical attention.
In case of skin contact:	Wash with soap and water.

In case of eye contact: Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. Get medical attention.

If swallowed: Wash out mouth with copious amounts of water for at least 15 minutes. Seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed:

See Section 2.2 and/or in Section 11.

4.3. Indication of any immediate medical attention and special treatment needed: No data.

5. Fire fighting measures

- 5.1. *Extinguishing media:* Use dry sand, dry chemical or alcohol-resistant foam for extinction.
- 5.2. Special hazards arising from the substance or mixture: Carbon monoxide, nitrogen oxides.
- 5.3. Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.
- 5.4. Further information: No data available.

6. Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures: Ensure adequate ventilation. Use personal protective equipment.
- 6.2. *Environmental precautions:* Should not be released into the environment. See Section 12 for additional ecological information.
- 6.3. *Methods and materials for containment and cleaning up:* Sweep up or vacuum up spillage and collect in suitable container for disposal.
- 6.4. *Reference to other sections:* Refer to protective measures listed in Sections 8 and 13.

7. Handling and storage

- 7.1. *Precautions for safe handling:* Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Keep away from sources of ignition No smoking. Take measures to prevent the build up of electrostatic charge. For precautions see section 2.2.
- 7.2. Conditions for safe storage, including any incompatibilities: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
- 7.3. *Specific end use(s):* Laboratory chemicals, for scientific research and development only.

8. Exposure Controls / Personal protection

- 8.1. Control parameters: Components with workplace control parameters: Contains no substances with occupational exposure limit values.
- 8.2. Exposure controls:

Appropriate engineering controls: Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas. Use only under a chemical fume hood. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/light equipment.

Personal protective equipment:

Eye/face protection:	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.		
Skin protection:	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands		
Body Protection:	Complete suit protecting against chemicals, Flame retardant antistatic protective clothing., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.		
Respiratory protection:	No protective equipment is needed under normal use conditions.		
Control of environmenta	<i>l exposure:</i> Prevent further leakage or spillage if safe to do so. Do not let product enter drains.		

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance:	Solid
Odour:	No data
Odour Threshold:	No data
pH:	No data
Melting point/freezing point:	No date.
Initial boiling point and boiling range:	No data
Flash point:	No data
Evaporatoin rate:	No data
Flammability (solid, gas):	No data
Upper/lower flammability or explosive limits:	No data
Vapour pressure:	No data
Vapour density:	No data
Relative density:	No data
Water solubility:	No data
Partition coefficient: n-octanol/water:	No data
Auto-ignition:	No data
Decomposition temperature:	No data
Viscosity:	No data
Explosive properties:	No data
Oxidizing properties:	No data
	Odour: Odour: Odour Threshold: pH: Melting point/freezing point: Initial boiling point and boiling range: Flash point: Evaporatoin rate: Flammability (solid, gas): Upper/lower flammability or explosive limits: Vapour pressure: Vapour density: Relative density: Relative density: Water solubility: Partition coefficient: n-octanol/water: Auto-ignition: Decomposition temperature: Viscosity: Explosive properties:

9.2. Other safety information:

Formula	$C_6H_{12}N_4$
Molecular weight	140.2
CAS Number	100-97-0

10. Stability and reactivity

10.1.	Reactivity	No data		
10.2.	Chemical stability	Stable under recommended storage conditions.		
10.3.	Possibility of hazardous reactions No data			
10.4.	Conditions to avoid	Flame, heat, spark		
10.5.	Incompatible material	Explosives, flammable/toxic gases, flammable liquid, flammable solid, spontaneously com- bustible substances, substances which are dangerous when wet, oxidizing substances, or- ganic peroxides, poisons, infectious substances, radioactive materials.		
10.6.	Hazardous decomposition products:			
	Hazardous decomposition products formed under fire conditions: Carbon monoxide, nitrogen oxides.			

Hazardous decomposition products formed under fire conditions:Carbon monoxide, nitrogen oxides.Other decomposition products:No dataIn the event of fire:See Section 5.

11. Toxicological information

11.1 Information on toxicological effects

No data available.			
No data available.			
y - single exposure: No data available.			
Specific target organ system toxicity - repeated exposure: No data available.			
No data available.			
To the best of our knowledge, the chemical, physical and toxicological proper- ties of this substance have not been thoroughly investigated.			

12. Ecological information

12.1.	Toxicity	No data available.
12.2.	Persistence and degradability	No data available.
12.3.	Bioaccumulative potential	No data available
12.4.	Mobility in soil	No data available
12.5.	Results of PBT and vPvB assessment	t No data available.
12.6.	Other adverse effects	No data available.

13. Disposal Considerations

13.1. Waste treatment methods

ProductArrange disposal as special waste, by licensed disposal company, in consultation with
local waste disposal authority, in accordance with national and regional regulations.Contaminated packagingDispose of as unused product.

14. Transportation information

DOT (US), IMDG and IATA:

UN Number:	UN1328	Class: 4.1	Packing group: III
Proper shipping name:	HEXAMETHYLENETETRAMINE		

15. Regulatory information

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302, or have known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

16. Other information

This MSDS is correct to the best of our knowledge at the date of publication but does not purport to be all inclusive and shall be used only as a guide. Combi-Blocks shall not be held liable for any injury or damage resulting from handling or from contact with the above product.