

MATERIAL SAFETY DATA SHEET

Hexamethylenetetramine

SECTION 1 . Product and Company Identification

Product Name and Synonym: Hexamethylenetetramine

Product Code: H1940

Material Uses:

Manufacturer: Science Stuff
1104 Newport Ave

Austin, TX 78753

(512) 837-6020

Entry Date : 6/5/2013

Print Date: 6/5/2013

24 Hour Emergency Assistance : Chemtrec 800-424-9300
Canutec 613-996-6666

Health:	2
Flammability:	2
Reactivity:	1

Hazard Rating:
Least Slight Moderate High Extreme
0 1 2 3 4
NA=Not Applicable NE=Not Established

SECTION 2 HAZARD IDENTIFICATION

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

SECTION 3 MIXTURE COMPONENTS

SARA 313	Component	CAS Number	Percent Comp.	Dimension	Exposure Limits
<input type="checkbox"/>	Hexamethylenetetramine	CAS# 100-97-0	100%	W/W	TXDS: orl- mouse LD \bullet <input type="checkbox"/> 569 mg/Kg

SECTION 4 FIRST AID MEASURES

Keep away from heat and ignition sources. Harmful if swallowed. Avoid breathing vapors. Use with adequate ventilation. Avoid contact with eyes, skin, and clothes. Wash thoroughly after handling. Keep container closed.

FIRST AID: SKIN: Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention

EYES: Wash eyes with plenty of water for at least 15 minutes, lifting lids occasionally. Seek Medical Aid. INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen

INGESTION: Give several glasses of milk or water. Vomiting may occur spontaneously, but DO NOT INDUCE! Never give anything by mouth to an unconscious person.

SECTION 5 FIRE FIGHTING MEASURES

Fire Extinguisher Type: Any means suitable for extinguishing surrounding fire

Fire / Explosion Hazards: Gives off irritating vapors

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and clothing.

Hexamethylenetetramine

SECTION 6 ACCIDENTAL RELEASE MEASURES

Remove all sources of ignition. Ventilate area of leak or spill. Wear protective equipment. Clean up in a manner that doesn't disperse dust.

SECTION 7 HANDLING AND STORAGE

Store in a cool dry well ventilated area. Keep away from heat and flame. Do not get in eyes, on skin, or on clothing.

SECTION 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection: NIOSH/MSHA-approved respirator
Ventilation
Local Exhaust
Mechanical
Protective Gloves: NIOSH Approved Gloves
Eye Protection: Splash Goggles
Other Protective Equipment: Wear appropriate clothing to prevent skin exposure

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Melting Point:	N/A	Percent Volatile by Volume:	N/A
Boiling Point:	N/A	Evaporation Rate	N/A
Vapor Pressure:	N/A	Evaporation Standard	
Vapor Density:	4.9	Auto Ignition Temp	Not applicable
Solubility in Water:	Soluble	Lower Flamm. Limit in Air	Not applicable
Appearance /Odors:	white crystalline powder, amine-like odor	Upper Flamm. Limit in Air	Not applicable
Flash Point:	250° C		
Specific Gravity:	1.30		

SECTION 10 STABILITY AND REACTIVITY INFORMATION

Stability: Stable
Conditions to Avoid: Avoid contact with incompatible materials.
Materials to Avoid: Oxidizing materials, acids
Hazardous Decomposition Products: oxides of carbon, Nitrogen. Formaldehyde
Hazardous polymerization: Will Not Occur
Conditions to Avoid: None known

SECTION 11 Toxicological Information

Routes of Entry:
Inhalation. Ingestion.
Toxicity to Animals:

Hexamethylenetetramine

Acute oral toxicity (LD50): 569 mg/kg [Mouse].
Chronic Effects on Humans:
MUTAGENIC EFFECTS: Mutagenic for bacteria and/or yeast.
Other Toxic Effects on Humans:
Hazardous in case of skin contact (irritant), of ingestion, of inhalation.
Special Remarks on Toxicity to Animals:
Not available.
Special Remarks on Chronic Effects on Humans:
May cause cancer (tumorigenic) based on animal data. May affect genetic material (mutagenic).
Special Remarks on other Toxic Effects on Humans:
Acute Potential Health Effects: Skin: Causes skin irritation. Eyes: Causes eye irritation.
Inhalation: Causes respiratory tract and mucous membrane irritation. May affect urinary system, and metabolism. Ingestion: Causes gastrointestinal tract irritation/distress with nausea, abdominal pain, vomiting. May affect the urinary system (bladder, kidneys), behavior (excitement, muscle contraction, spasticity, tremor)

SECTION 12 Ecological Information

Ecotoxicity:
Not available.
BOD5 and COD:
Not available.
Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.
Toxicity of the Products of Biodegradation:
The products of degradation are less toxic than the product itself.
Special Remarks on the Products of Biodegradation:
Not available.

SECTION 13 Disposal Considerations

Waste must be disposed of in accordance with federal, state and local environmental control regulations.

SECTION 14 Transport Information

DOT Classification: UN1328, Hexamethylenetetramine, 4.1, PG III

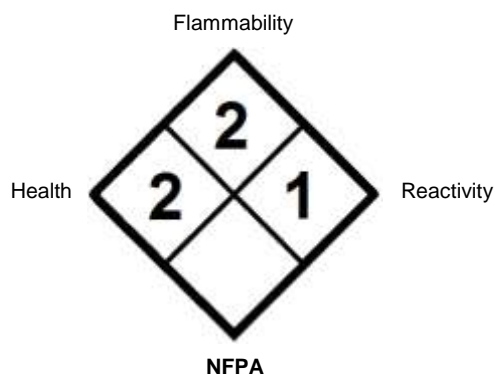
DOT Regulations may change from time to time. Please consult the most recent D.O.T. regulations.

SECTION 15 Regulatory Information

Federal and State Regulations:
New Jersey: Methenamine TSCA 8(b) inventory: Methenamine
Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200).
EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.
Other Classifications:
WHMIS (Canada):
CLASS B-4: Flammable solid. CLASS D-2B: Material causing other toxic effects (TOXIC).
DSCG (EEC):
R11- Highly flammable. R36/38- Irritating to eyes and skin. S2- Keep out of the reach of children. S46- If swallowed, seek medical advice immediately and show this container or label.

SECTION 16 Additional Information

Hexamethylenetetramine



Revisions

3/19/2013	0.1	Revised to 16 sections LS
3/4/2009	0	Creation date LS

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