



PRODUCT SPECIFICATION

Product Name	Hexamine
Alternative Name	Hexamethylene tetramine
Product Grades	Crystalline, Crystalline Free-flowing, Coarse Crystalline
Specification Reference	1300005/1 (00/02/0051201)

SALES SPECIFICATION

Property	Value
Crystalline	
Content of hexamethylene tetramine	>=99.0
Water Content	<=0.5
Ash Content	<=0.05
Particles >200 micron	>=50
Crystalline Free-Flowing	
Content of hexamethylene tetramine	>=97.0
Water Content	<=0.5
Ash Content	0.5-1.5
Coarse Crystalline	
Content of hexamethylene tetramine	>=99.0
Water Content	<=0.5
Ash Content	<=0.05
Particles >250 micron	>=70

Further information

Storage

Although Hexamethylene tetramine is moisture sensitive, it is not hygroscopic. It should be stored in the driest possible atmosphere at relatively humidity below 60%. This is most important for bags which have been opened. They should be sealed airtight and stored without pressure. Pallets should not be double-stacked.

Characteristics

HMT shows weak basic action (pH of a 10% solution: 7 – 9). Hexamine crystals can agglomerate even with extremely low moisture content. The finer these crystals are, the stronger is this tendency. The agglomeration is favoured by pressure and heat as well as by high relative atmospheric humidity.

All free flowing grades contain silica as an anti-caking agent.

Handling

Dusty hexamethylenetetramine, when mixed with air, tends to generate dust explosions. Take measures against electrostatically charging.

NOTES

Exclusion of Liability

Information contained in this publication is accurate to the best of the knowledge and belief of Tennants.

Any information or advice obtained from Tennants otherwise than by means of this publication and whether relating to Tennants materials or other materials, is also given in good faith. However, it remains at all times the responsibility of the customer to ensure that Tennants materials are suitable for the particular purpose intended.

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Health and Safety

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on the handling precautions and emergency procedures. This must be consulted fully before handling, storage and use.



SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY

Product Identifier

Product Name Hexamethylene tetramine
Trade Name Hexamethylene tetramine course crystalline
REACH Registration Number 01-2119474895-20-XXXX
CAS Number 100-97-0
Index Number 612-101-00-2
EC Number 202-905-8

Relevant identified uses of the substance or mixture and uses advised against

Identified uses: Industrial use, chemical
Recommended restrictions on use: Not applicable

Details of the supplier of the safety data sheet

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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Flammable solids, Category 2 H228: Flammable solid.

Skin sensitisation, Category 1 H317: May cause an allergic skin reaction.

2.2 Label elements

Label in accordance with (EC) No 1272/2008 as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)



Signal Word: Warning

Hazard Statements

H228 Flammable solid.

H317 May cause an allergic skin reaction.

Precautionary Statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P241 Use explosion-proof electrical/ventilating/lighting 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.

Response

P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.

Acquisition, possession or use by the general public is restricted.

Hazardous components which must be listed on the label: Hexamethylenetetramine

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Substance name: Hexamethylenetetramine. Concentration: >=90 - <=100 % w/w



EC No. 202-905-8 CAS No. 100-97-0 Index No. 612-101-00-2
4. FIRST AID MEASURES
4.1 Description of first aid measures
General information In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first aiders First Aid responders should pay attention to self-protection and use the recommended personal protective equipment when the potential for exposure exists.
Inhalation If inhaled, remove to fresh air. Get medical attention if symptoms occur.
Skin contact In case of contact, immediately flush skin with soap and plenty of water. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
Eye contact If in eyes, rinse well with water. Get medical attention if irritation develops and persists.
Ingestion If swallowed, DO NOT induce vomiting. Get medical attention if symptoms occur. Rinse mouth thoroughly with water.
4.2 Most important symptoms and effects, both acute and delayed
Risks May cause an allergic skin reaction.
4.3 Indication of immediate medical attention and special treatment needed
Treatment: Treat symptomatically and supportively.
5. FIRE FIGHTING MEASURES
Extinguishing Media Suitable extinguishing media: Water spray, Alcohol-resistant foam, Carbon dioxide (CO ₂), Dry chemical Unsuitable extinguishing media: High volume water jet.
Special hazards arising from the substance or mixture Specific hazards during fire-fighting: Do not use a solid water stream as it may scatter and spread fire. Exposure to combustion products may be a hazard to health. Hazardous combustion products: Nitrogen oxides (NO _x), carbon oxides, formaldehyde, hydrogen cyanide (hydrocyanic acid), ammonia.
Advice for fire-fighters Special protective equipment for fire-fighters: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment. Specific extinguishing methods: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
6. ACCIDENTAL RELEASE MEASURES
Personal precautions, protective equipment and emergency procedures Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8)
Environmental precautions Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
Methods and material for containment and cleaning up Non-sparking tools should be used. Sweep up or vacuum up spillage and collect in suitable container for disposal. Suppress (knock down) gases/vapours/mists with a water spray jet. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the clean-up of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.
6.4 Reference to other sections See sections: 7, 8, 11, 12 and 13.



7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Technical measures

See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/total ventilation

Use only with adequate ventilation. Explosion-proof electrical, ventilating and lighting equipment.

Advice on safe handling

Do not get on skin or clothing. Avoid breathing dust. Do not swallow. Avoid contact with eyes. Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharges. Take care to prevent spills, waste and minimize release to the environment. Do not breathe decomposition products.

Hygiene measures

If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place. When using do not eat, drink or smoke. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before re-use.

Dust class: St1

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in properly labelled containers. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.

Do not store with the following product types:

- Strong oxidizing agents
- Flammable liquids
- Aerosol cans and lighters
- Explosives
- Gases
- Very acutely toxic substances and mixtures

7.3 Specific end use(s)

No data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Components with workplace control parameters

Contains no substances with occupational exposure limit values

Occupational exposure limits of the decomposition products

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Formaldehyde	50-00-0	TWA	2 ppm 2.5 mg/m ³	GB EH40
		Further information: Capable of causing cancer and/or heritable genetic damage.		
		STEL	2 ppm 2.5 mg/m ³	GB EH40
		Further information: Capable of causing cancer and/or heritable genetic damage.		
		TWA	0.3 ppm 0.37 mg/m ³	2004/37/EC
		Further information: Dermal sensitisation, carcinogens or mutagens		
		STEL	0.6 ppm 0.74 mg/m ³	2004/37/EC
		Further information: Dermal sensitisation, carcinogens or mutagens		
Ammonia	7664-41-7	TWA	20 ppm 14 mg/m ³	2000/39/EC
Further information	Indicative			
		STEL	50 ppm 36 mg/m ³	2000/39/EC
Further information	Indicative			
		TWA	25 ppm 18 mg/m ³	GB EH40
		STEL	35 ppm 25 mg/m ³	GB EH40



Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Exposure routes	Potential health effects	Value
Hexamethylenetetramine	Workers	Inhalation	Long-term systemic effects	5.6 mg/m ³
	Workers	Skin contact	Long-term systemic effects	6.4 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	1.2 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	3.2 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0.8 mg/kg bw/day

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
Hexamethylenetetramine	Fresh water	3 mg/l
	Marine water	0.3 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	10.2 mg/kg
	Marine sediment	1.02 mg/kg
	Soil	0.28 mg/kg

8.2 Exposure controls

Appropriate engineering controls

Processing may form hazardous compounds (see section 10). Ensure adequate ventilation, especially in confined areas. Minimise workplace exposure concentrations. Use only in an area equipped with explosion proof exhaust ventilation.

Eye/face protection

Safety goggles. Equipment should conform to BS EN 166.

Hand protection

Material: Nitrile rubber: Break through time: > 480 min. Glove thickness: 0.12 mm. Directive: DIN EN 374. Protective index: Class 6

Material: Butyl-rubber: Break through time: > 480 min. Glove thickness: 0.7 mm. Directive: DIN EN 374. Protective index: Class 6.

Fluorinated rubber: Break through time: > 480 min. Glove thickness: 0.7 mm. Directive: DIN EN 374. Protective index: Class 6.

Remarks

Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous sub-stance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Skin and body protection

Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment if assessment demonstrates that there is a risk of explosive atmospheres or flash fires: Flame retardant antistatic protective clothing. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc.).

Respiratory protection

If adequate local exhaust ventilation is not available or expo-sure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.

Filter should conform to BS EN 14387

Filter type

Combined particulates, ammonia/amines and inorganic gas/vapour type.



9. PHYSICAL AND CHEMICAL PROPERTIES	
9.1 Information on basic physical and chemical properties	
Appearance	Crystalline
Colour	Colourless
Odour	Amine like
Odour threshold	No data available
pH Value	7 – 9 (concentration: 100 g/l 10%)
Melting point/freezing point	No data available Decomposes without melting
Initial boiling point and boiling range	No data available
Flash point	250°C Method: Open cup 130°C Method: Closed cup
Evaporation rate	Not applicable
Flammability (solid, gas)	The substance or mixture is a flammable solid with the category 2
Upper explosion limit	Not applicable
Lower explosion limit	20,000 mg/m ³
Vapour pressure	0.13 Pa (20°C)
Relative vapour density	Not applicable
Density	1.33 g/cm ³ (20°C)
Bulk density	700 – 800 kg/m ³
Solubility – Water Solubility	813 g/l (12°C)
Partition coefficient: n-octanol/water	Not applicable
Auto ignition temperature	410°C Method: DIN 51794
Decomposition temperature	260°C. The substance or mixture is not classified self-reactive
Viscosity, dynamic	Not applicable
Explosive properties	Not explosive
Oxidising properties	The substance or mixture is not classified as oxidising
Other information	
Surface tension	70.4 mN/m 20°C
Sublimation point	>280°C
Dust explosion point	St1
Metal corrosion rate	Not corrosive to metals
Particle size	No data
Self-ignition	220 – 230°C Method: Regulation (EC) No. 440/2008, Annex, A.16
10. STABILITY AND REACTIVITY	
10.1 Reactivity Not classified as a reactivity hazard.	
10.2 Chemical stability Stable under normal conditions.	
10.3 Possibility of hazardous reactions Hazardous reactions Can react with strong oxidizing agents. Flammable solid. Hazardous decomposition products will be formed at elevated temperatures.	
10.4 Conditions to avoid Heat, flames and sparks.	
10.5 Incompatible materials Oxidizing agents	
10.6 Hazardous decomposition products Thermal decomposition Formaldehyde. Ammonia	
11. TOXICOLOGICAL INFORMATION	
11.1 Information on toxicological effects Information on likely routes of exposure: Inhalation skin contact, ingestion, eye contact	
Acute toxicity	



Not classified based on available information.

Components: Hexamethylenetetramine

Acute oral toxicity: LD50 (Rat): > 20,000 mg/kg

Acute dermal toxicity: LD50 (Rat) > 2,000 mg/kg.

Method: OECD Test Guideline 402. Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

Not classified based on available information.

Components: Hexamethylenetetramine

Species: Rabbit. Method: OECD Test Guideline 404. Result: No skin irritation

Serious eye damage/eye irritation

Not classified based on available information.

Components: Hexamethylenetetramine

Species: Rabbit. Method: OECD Test Guideline 405. Result: No eye irritation

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: Not classified based on available information.

Components: Hexamethylenetetramine

Test Type: Maximisation Test. Exposure routes: Skin contact. Species: Guinea pig. Method: OECD Test Guideline 406.

Result: positive

Assessment: Probability or evidence of low to moderate skin sensitisation rate in humans

Germ cell mutagenicity

Not classified based on available information.

Components: Hexamethylenetetramine

Genotoxicity in vitro

Test Type: Bacterial reverse mutation assay (AMES) Result: negative. Test Type: Chromosome aberration test in vitro

Result: positive

Genotoxicity in vivo

Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis). Species: Mouse

Application Route: Ingestion. Result: negative

Carcinogenicity

Not classified based on available information.

Components: Hexamethylenetetramine

Species: Rat. Application Route: Ingestion. Exposure time: 104 weeks. Result: negative

Reproductive toxicity

Not classified based on available information.

Components: Hexamethylenetetramine

Effects on fertility:

Test Type: Three-generation reproduction toxicity study. Species: Rat. Application Route: Ingestion. Result: negative

Effects on foetal development:

Test Type: Reproduction/Developmental toxicity screening test. Species: Rat. Application Route: Ingestion

Result: negative

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components: Hexamethylenetetramine

Species: Rat. NOAEL: >= 1,500 mg/kg. Application Route: Ingestion. Exposure time: 104 Weeks.

Aspiration toxicity

Not classified based on available information.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Components: Hexamethylenetetramine

Toxicity to fish

LC50 (Lepomis macrochirus (Bluegill sunfish)): 41,000 mg/l. Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 36,000 mg/l. Exposure time: 48 h

Toxicity to algae

ErC50 (Selenastrum capricornutum (green algae)): 3,000 mg/l. Exposure time: 14 d



NOEC (Selenastrum capricornutum (green algae)): 1,500 mg/l. Exposure time: 14 d	
Toxicity to bacteria	
NOEC (Nitrosomonas sp.): > 100 mg/l. Exposure time: 2 h	
12.2 Persistence and Degradability	
Components: Hexamethylenetetramine	
Biodegradability	
Result: Not readily biodegradable. Biodegradation: 35 %. Exposure time: 28 d. Method: OECD Test Guideline 301D	
12.3 Bioaccumulative potential	
Components: Hexamethylenetetramine	
Partition coefficient: n-octanol/water: log Pow: -2.18	
12.4 Mobility in soil	
No data available	
12.5 Results of PBT and vPvB assessment	
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.	
12.6 Other adverse effects	
Endocrine disrupting potential: This substance/mixture does not contain components considered to have endocrine disrupting properties for environment according to UK REACH Article 57(f) at levels of 0.1% or higher.	
13. DISPOSAL CONSIDERATIONS	
13.1 Waste treatment methods	
Product	
Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities. Do not dispose of waste into sewer.	
Contaminated packaging	
Empty containers should be taken to an approved waste handling site for recycling or disposal. Empty containers retain residue and can be dangerous. Do not pressurize, cut, weld, braze, solder, drill, grind, or expose such containers to heat, flame, sparks, or other sources of ignition. They may explode and cause injury and/or death. If not otherwise specified: Dispose of as unused product.	
14. TRANSPORT INFORMATION	
14.1 UN Number	1328
14.2 UN Proper Shipping Name	HEXAMETHYLENETETRAMINE
14.3 Transport Hazard Class	4.1
14.4 Packing Group	III 4.1 F1 40 (E) F-A, S-G 449 Y443 Flammable Solid 446 Y443 Flammable Solid
ADR/RID/ADN/IMDG/IATA	
ADR/RID	
Hazard label	
Classification code	
Hazard identification number	
Tunnel code	
IMDG	
EmS	
IATA (Cargo)	
Packing instruction (cargo aircraft)	
Packing instruction (LQ)	
Labels	
IATA (passenger)	
Packing instructions (passenger aircraft)	
Packing instruction (LQ)	
Labels	
14.5 Environmental Hazards	
ADR/RID/ADN	
Environmentally hazardous	No
IMDG	
Marine Pollutant	No



14.6 Special Precautions For Users

The transport classification(s) provided herein are for informational purposes only and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Remarks: Not applicable for product as supplied

15. REGULATORY INFORMATION

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

National regulatory information

Control of Explosive Precursors and Poisons Regulations 2023: This product is classified as a regulated explosive precursor.

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17): Conditions of restriction for the following entries should be considered: Number on list 40. Substance(s) or mixture(s) are listed here according to their appearance in the regulation, irrespective of their use/purpose or the conditions of the restriction. Please refer to the conditions in corresponding Regulation to determine whether an entry is applicable to the placing on the market or not.

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation: Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain): Not applicable

Regulation (EU) No 2024/590 on substances that deplete the ozone layer: Not applicable

UK REACH List of substances subject to authorisation (Annex XIV): Not applicable

GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation: Not applicable

Acquisition, possession or use of this product by the general public is restricted by the Poisons Act 1972 (as amended). All suspicious transactions, and significant disappearances and thefts must be reported. Hexamethylenetetramine (Schedule 1A Part 1).

Other regulations

Exposure Scenario is available as separate attachment.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

The components of this product are reported in the following inventories

REACH: All ingredients (pre-) registered or exempt.

TSCA: All chemical substances in this product are either listed on the TSCA Inventory or are in compliance with a TSCA Inventory exemption.

AIIIC: All ingredients listed or exempt.

CA. DSL: All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

ENCS All components are listed on ENCS/ISHL or exempted from inventory listing.

ISHL: On the inventory, or in compliance with the inventory.

KECI: All ingredients listed, exempt or notified.

PICCS: All ingredients listed or exempt.

IECSC: All ingredients listed or exempt.

NZIoC: All ingredients listed or exempt.

TECI: On the inventory, or in compliance with the inventory.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has been carried out for this substance

16. OTHER INFORMATION

Full text of H-Statements

H228: Flammable solid.

H317: May cause an allergic skin reaction.

Full text of other abbreviations

2000/39/EC: Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values

GB EH40: UK. EH40 WEL - Workplace Exposure Limits

2000/39/EC / TWA: Limit Value - eight hours

2000/39/EC / STEL: Short term exposure limit

GB EH40 / TWA: Long-term exposure limit (8-hour TWA reference period)



GB EH40 / STEL: Short-term exposure limit (15-minute reference period)
ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
IMDG = International Maritime Code for Dangerous Goods
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization
MARPOL = International Convention for the Prevention of Pollution from Ships
DOT = Department of Transportation
TDG = Transport of Dangerous Goods
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals
CAS = Chemical Abstract Service
EN = European norm
ISO = International Organization for Standardization
DIN = Deutsche Industrie Norm
PBT = Persistent Bioaccumulative and Toxic
vPvB = Very Persistent and very Bio-accumulative
LD = Lethal dose
LC = Lethal concentration
EC = Effect concentration
IC = Median immobilisation concentration or median inhibitory concentration

Source of key data used to compile the data sheet

Supplier information

Modifications from last revision

The safety data sheet has been updated throughout. The specification remains unchanged.

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