

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking			
1.1	Product identifiers		
	Product name	:	Guanine
	CAS-No.	:	73-40-5
1.2	Relevant identified uses of the substance or mixture and uses advised against		
	Identified uses	:	Laboratory chemicals, Manufacture of substances
1.3	Details of the supplier of the safety data sheet		
	Company	:	Inventys Research Company Pvt Ltd 901C Tower 2, One International Centre, Senapati Bapat Marg, Prabhadevi, Mumbai 400013. INDIA Tel: +91.22.714.00.200 Fax: +91.22.714.00.299 www.Inventys.In
1.4	Emergency telephone number		
	Emergency Phone #	:	+91 22.714.00.200
SECTION 2: Hazards identification			
2.1	Classification of the substance or mixture		
	Classification according to Regulation (EC) No 1272/2008 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335 For the full text of the H-Statements mentioned in this Section, see Section 16.		
2.2	Label elements		
	Labelling according to Regulation (EC) No 1272/2008 Pictogram:  Signal Word: Warning Hazard statement(s): Hazard statement(s) H315 Causes skin irritation. H319 Causes serious eye irritation. H335 May cause respiratory irritation. Precautionary statement(s) P261 Avoid breathing dust. P264 Wash skin thoroughly after handling. P271 Use only outdoors or in a well-ventilated area. P280 Wear protective gloves/ eye protection/ face protection. P302 + P352 IF ON SKIN: Wash with plenty of water. P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Supplemental Hazard Statements: none		

	Pictogram: Reduced Labeling (<= 125 ml) Pictogram 											
	Signal Word	Warning										
	Hazard statement(s) :none Precautionary statement(s): none Supplemental Hazard Statements: none											
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. Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.											
SECTION 3: Composition/information on ingredients												
3.1	Substances											
	Synonyms	:	2-Amino-6-hydroxypurine									
	Formula	:	C5H5N5O									
	Molecular weight	:	151,13 g/mol									
	CAS-No	:	73-40-5									
	EC-No.	:	200-799-8									
	No components need to be disclosed according to the applicable regulations. <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 5px;"> <thead> <tr> <th style="width: 33%;">Component</th> <th style="width: 33%;">Classification</th> <th style="width: 34%;">Concentration</th> </tr> </thead> <tbody> <tr> <td colspan="3">Guanine</td> </tr> <tr> <td> CAS-No.: 73-40-5 EC-No.: 200-799-8 </td> <td> Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335 </td> <td style="text-align: center;"><= 100 %</td> </tr> </tbody> </table>			Component	Classification	Concentration	Guanine			CAS-No.: 73-40-5 EC-No.: 200-799-8	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335	<= 100 %
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Guanine												
CAS-No.: 73-40-5 EC-No.: 200-799-8	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3; H315, H319, H335	<= 100 %										
	For the full text of the H-Statements mentioned in this Section, see Section 16.											
SECTION 4: First aid measures												
4.1	Description of first aid measures											
	General advice Show this material safety data sheet to the doctor in attendance. If inhaled After inhalation: fresh air. In case of skin contact In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower. In case of eye contact After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses. If swallowed After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.											

4.2	Most important symptoms and effects, both acute and delayed
	The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11
4.3	Indication of any immediate medical attention and special treatment needed
	No data available
SECTION 5: Firefighting measures	
5.1	Extinguishing media
	Suitable extinguishing media Water Foam Carbon dioxide (CO ₂) Dry powder Unsuitable extinguishing media For this substance/mixture no limitations of extinguishing agents are given.
5.2	Special hazards arising from the substance or mixture
	Carbon oxides Nitrogen oxides (NO _x) Combustible. Development of hazardous combustion gases or vapours possible in the event of fire.
5.3	Advice for firefighters
	Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing suitable protective clothing.
5.4	Further information
	Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.
SECTION 6: Accidental release measures	
6.1	Personal precautions, protective equipment and emergency procedures
	Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert. For personal protection see section 8.
6.2	Environmental precautions
	Do not let product enter drains
6.3	Methods and materials for containment and cleaning up
	Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.
6.4	Reference to other sections
	For disposal see section 13
SECTION 7: Handling and storage	
7.1	Precautions for safe handling
	For precautions see section 2.2.
7.2	Conditions for safe storage, including any incompatibilities
	Storage conditions Tightly closed. Dry. Storage class Storage class (TRGS 510): 11: Combustible Solids
7.3	Specific end use(s)
	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated
SECTION 8: Exposure controls/personal protection	

8.1	Control parameters Ingredients with workplace control parameters	
8.2	Exposure controls Personal protective equipment Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses Body Protection protective clothing Respiratory protection required when dusts are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system. Recommended Filter type: Filter type P2 The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented. Control of environmental exposure Do not let product enter drains.	
SECTION 9: Physical and chemical properties		
9.1	Information on basic physical and chemical properties	
	a) Appearance	Form: powder Color: beige
	b) Odor	No data available
	c) Odor Threshold	No data available
	d) pH	No data available
	e) Melting point/ freezing point	> 300 °C - lit..
	f) Initial boiling point and boiling range	No data available
	g) Flash point	No data available
	h) Evaporation rate	No data available
	i) Flammability (solid, gas)	No data available
	j) Upper/lower flammability or explosive limits	No data available
	k) Vapor pressure	No data available
	l) Vapor density	No data available
	m) Density Relative density	No data available
	n) Water solubility	No data available
	o) Partition coefficient:n octanol/water	No data available

	p) Auto-ignition temperature	No data available
	q) Decomposition temperature	no data available
	r) Viscosity	no data available
	s) Explosive properties	no data available
	t) Oxidizing properties	no data available
9.2	Other safety information	
	No data available	
SECTION 10: Stability and reactivity		
10.1	Reactivity	
	The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed	
10.2	Chemical stability	
	The product is chemically stable under standard ambient conditions (room temperature) .	
10.3	Possibility of hazardous reactions	
	No data available	
10.4	Conditions to avoid	
	no information available	
10.5	Incompatible materials	
	Strong oxidizing agents	
10.6	Hazardous decomposition products	
	In the event of fire: see section 5	
SECTION 11: Toxicological information		
11.1	Information on toxicological effects	
	Acute toxicity Oral: No data available Inhalation: No data available Dermal: No data available Skin corrosion/irritation Remarks: Causes skin irritation. Serious eye damage/eye irritation Remarks: Causes serious eye irritation. Respiratory or skin sensitization No data available Germ cell mutagenicity No data available Carcinogenicity No data available Reproductive toxicity No data available Specific target organ toxicity - single exposure May cause respiratory irritation. Specific target organ toxicity - repeated exposure No data available	

	Aspiration hazard No data available
11.2	Additional Information
	Endocrine disrupting properties Product: Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. RTECS: MF8260000 To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
SECTION 12: Ecological information	
12.1	Toxicity
	No data available
12.2	Persistence and degradability
	No data available
12.3	Bio accumulative potential
	No data available
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	Endocrine disrupting properties
	Product: Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.
12.7	Other adverse effects
	Discharge into the environment must be avoided.
SECTION 13: Disposal considerations	
13.1	Waste treatment methods
	No data available
SECTION 14: Transport information	
14.1	UN number
	ADR/RID: - MDG: - IATA:
14.2	UN proper shipping name
	ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods
14.3	Transport hazard class(es) ADR/RID: - IMDG: - IATA: -
14.4	Packaging group ADR/RID: - IMDG: - IATA: -
14.5	Environmental hazards ADR/RID: yes IMDG Marine pollutant: no IATA: no

14.6	Special precautions for user No data available Further information Not classified as dangerous in the meaning of transport regulations.
<u>SECTION 15: Regulatory information</u> 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006. Other regulations Take note of Dir 94/33/EC on the protection of young people at work. 15.2 Chemical Safety Assessment For this product a chemical safety assessment was not carried out	
SECTION 16: OTHER INFORMATION Full text of H-Statements referred to under sections 2 and 3. H315 Causes skin irritation. H319 Causes serious eye irritation. H335 Causes skin irritation Further information Copyright Revised in OCT 2023 Inventys Research Company Pvt Ltd. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Inventys Research Company Pvt Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.inventys.in and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.	