

# SAFETY DATA SHEET

Creation Date 09-Apr-2010

Revision Date 29-Mar-2024

**Revision Number** 4

1. Identification

# Product Name

Creatinine

Cat No. :

B23097

No information available

60-27-5

CAS No Synonyms

Recommended Use Uses advised against Laboratory chemicals. Food, drug, pesticide or biocidal product use.

### Details of the supplier of the safety data sheet

<u>Company</u>

Thermo Fisher Scientific Chemicals, Inc. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757

### **Emergency Telephone Number**

For information **US** call: 001-800-227-6701 / **Europe** call: +32 14 57 52 11 Emergency Number **US**:001-201-796-7100 / **Europe:** +32 14 57 52 99 **CHEMTREC** Tel. No. **US**:001-800-424-9300 / **Europe:**001-703-527-3887

2. Hazard(s) identification

#### <u>Classification</u> Classification under 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Label Elements None required

Hazards not otherwise classified (HNOC) None identified

3. Composition/Information on Ingredients

Component		CAS No	Weight %			
4H-Imidazol-4-one, 2-amino-1,5-dil	nydro-1-methyl-	60-27-5	>95			
	4. Fir	rst-aid measures				
Eye Contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.					
Skin Contact	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.					
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur.					
Ingestion	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.					
Most important symptoms and effects	None reasonably foreseeable.					
Notes to Physician	Treat symptomatically					
	5 Eiro	fighting modeuros				

5. Fire-fighting measures

Suitable Extinguishing Media	Water spray. Carbon dioxide (CO 2). Dry chemical. Chemical foam.
Unsuitable Extinguishing Media	No information available
Flash Point	290 °C / 554 °F
Method -	No information available
Autoignition Temperature Explosion Limits	Not applicable
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impac	t No information available

# Sensitivity to Static Discharge No information available

### **Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition.

### **Hazardous Combustion Products**

Nitrogen oxides (NOx). Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

## Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

NFPA Health 0	Flammability 1	<b>Instability</b> 0	Physical hazards N/A		
	6. Accidental re	lease measures			
Personal Precautions	Ensure adequate ventilation. Use personal protective equipment as required. Avoid dust formation.				
Environmental Precautions	Should not be released int	o the environment.			

Methods for Containment and Clean Sweep up and shovel into suitable containers for disposal. Avoid dust formation. Up

	7. Handling and storage
Handling	Ensure adequate ventilation. Wear personal protective equipment/face protection. Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.
Storage.	Keep in a dry, cool and well-ventilated place. Keep container tightly closed. Incompatible Materials. Strong oxidizing agents.
8. E	Exposure controls / personal protection
Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limitsestablished by the region specific regulatory bodies.
Engineering Measures	None under normal use conditions.
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 and body protection	Wear appropriate protective gloves and clothing to prevent skin exposure.
<b>Respiratory Protection</b>	No protective equipment is needed under normal use conditions.
Recommended Filter type:	Particle filter.
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice.
(	9. Physical and chemical properties
Physical State Appearance Odor Odor Threshold	Powder Solid White No information available No information available
nU	8-0 5% ag solution

pH Melting Point/Range Boiling Point/Range Flash Point Evaporation Rate Flammability (solid,gas) Flammability or explosive limits Upper Lower Vapor Pressure Vapor Density Specific Gravity
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Upper Lower Vapor Pressure Vapor Density Specific Gravity
Lower Vapor Pressure Vapor Density Specific Gravity
Vapor Pressure Vapor Density Specific Gravity
Vapor Density Specific Gravity
Specific Gravity
Salubility
Solubility
Partition coefficient; n-octanol/water
Autoignition Temperature
Decomposition Temperature
Viscosity
Molecular Formula
Molecular Weight

White No information available No information available 8-9 5% aq.solution 255 °C / 491 °F No information available 290 °C / 554 °F Not applicable No information available

No data available No data available No information available No information available 90 g/l (20°C) No data available Not applicable No information available Not applicable C4 H7 N3 O 113.12

## 10. Stability and reactivity

Reactive Hazard	None known, based on information available		
Stability	Stable under recommended storage conditions.		
Conditions to Avoid	Heat, flames and sparks. Incompatible products.		
Incompatible Materials	Strong oxidizing agents		
Hazardous Decomposition Products Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO2)			
Hazardous Polymerization	Hazardous polymerization does not occur.		
Hazardous Reactions	None under normal processing.		
	11. Toxicological information		

## Acute Toxicity

Product Information Component Information Toxicologically Synergistic Products Delayed and immediate effects as y	No acute toxicity information is available for this product No information available vell as chronic effects from short and long-term exposure
Irritation	No information available
Sensitization	No information available

### **Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS No	IARC	NTP	ACGIH	OSHA	Mexico			
4H-Imidazol-4-one,	60-27-5	Not listed	Not listed	Not listed	Not listed	Not listed			
2-amino-1,5-dihydro-1- methyl-									
Mutagenic Effects		No information available							
Reproductive Effect	s	No information ava	ailable.						
Developmental Effe	cts	No information ava	ailable.						
Teratogenicity		No information ava	ailable.						
STOT - single expos STOT - repeated exp		None known None known							
Aspiration hazard		No information available							
Symptoms / effects delayed	both acute and,	d No information available							
Endocrine Disruptor	r Information	No information available							
Other Adverse Effect	ts	The toxicological properties have not been fully investigated.							
		12. Ecol	ogical infor	mation					
Ecotoxicity Do not empty into dra	ins.								

Persistence and Degradability Soluble in water Persistence is unlikely based on information available.

**Bioaccumulation/ Accumulation** No information available.

Mobility	Will likely be mobile in the environment due to its water solubility.
	13. Disposal considerations
Waste Disposal Methods	Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.
	14. Transport information
DOT	Not regulated
TDG	Not regulated
ΙΑΤΑ	Not regulated
IMDG/IMO	Not regulated
	15. Regulatory information

### United States of America Inventory

Component	CAS No	TSCA	TSCA Inventory notification - Active-Inactive	TSCA - EPA Regulatory Flags
4H-Imidazol-4-one, 2-amino-1,5-dihydro-1-methyl-	60-27-5	Х	ACTIVE	-

#### Legend:

TSCA US EPA (TSCA) - Toxic Substances Control Act, (40 CFR Part 710)

X - Listed

'-' - Not Listed

# TSCA - Per 40 CFR 751, Regulation of Certain Chemical Not applicable Substances & Mixtures, Under TSCA Section 6(h) (PBT)

TSCA 12(b) - Notices of Export

Not applicable

### International Inventories

Canada (DSL/NDSL), Europe (EINECS/ELINCS/NLP), Philippines (PICCS), Japan (ENCS), Japan (ISHL), Australia (AICS), China (IECSC), Korea (KECL).

Component	CAS No	DSL	NDSL	EINECS	PICCS	ENCS	ISHL	AICS	IECSC	KECL
4H-Imidazol-4-one,	60-27-5	Х	-	200-466-7	Х	Х	Х	Х	Х	KE-01302
2-amino-1,5-dihydro-1-methyl-										

KECL - NIER number or KE number (http://ncis.nier.go.kr/en/main.do)

### U.S. Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

CWA (Clean Water Act)	Not applicable
Clean Air Act	Not applicable
OSHA - Occupational Safety and	Not applicable

### Health Administration

### CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

California Proposition 65	This product does not contain any Proposition 65 chemicals.	
U.S. State Right-to-Know Regulations	Not applicable	
<b>U.S. Department of Transportation</b> Reportable Quantity (RQ): DOT Marine Pollutant DOT Severe Marine Pollutant	N N N	
U.S. Department of Homeland Security	This product does not contain any DHS chemicals.	
Other International Regulations		
Mexico - Grade	No information available	

### Authorisation/Restrictions according to EU REACH Not applicable

Component	CAS No	REACH (1907/2006) - Annex XIV - Substances Subject to Authorization	5	REACH Regulation (EC 1907/2006) article 59 - Candidate List of Substances of Very High Concern (SVHC)
4H-Imidazol-4-one, 2-amino-1,5-dihydro-1-methyl-	60-27-5	-	-	-

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

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
4H-Imidazol-4-one, 2-amino-1,5-dihydro-1-methyl-	60-27-5	Not applicable	Not applicable	Not applicable	Not applicable

### Contains component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS)? Not applicable

### Other International Regulations

Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Convention (PIC)	Basel Convention (Hazardous Waste)
4H-Imidazol-4-one, 2-amino-1,5-dihydro-1-methyl-	60-27-5	Not applicable	Not applicable	Not applicable	Not applicable

	16. Other information	
Prepared By Health, Safety and Environmental Department   Email: chem.techinfo@thermofisher.com   www.thermofisher.com		
Creation Date Revision Date Print Date Revision Summary	evision Date 29-Mar-2024 int Date 29-Mar-2024	

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text

## **End of SDS**