



Material Safty Data Sheet

Hydantoin

1. CHEMICAL PRODUCT:

MSDS Name: Hydantoin 99%

Synonym: 2.4-Imidazolinedione

2. COMPOSITION/INFORMATION ON INGREDIENTS:

CAS No.	Chemical Name	Content	EC No.
461-72-3	Hydantoin	99%	207-313-3

Hazard Symbol: None Listed

Risk Phrases: None Listed

3. COMPANY INFORMATIONS:

Supplier: Hebei Pushi Yongdao Trade Co., Ltd.

Manufacturer: Shijiazhuang Donghua Jinlong Chemical Co., Ltd.

Manufacture Add:No.100 Mid Chemical Road, Recycling Chemical District,
Shijiazhuang,052160, P.R.China

Tel/Fax: +86(0)311-66619888

Website: www.glycine.com.cn Email: info@pushiyongdao.com

● Company Certificates:

Serial No.	Certificate	Certificate number	Issuing
1	Reach Registration	01-2119864796-18-0001	Netsun EU B.V.
2	BRC	8978610	SGS
3	FAMI-QS	FAM-1197	SGS
4	ISO22000:2005	F01FSMS1600101	SGS
5	ISO14001:2004	00616E20706R1M	QAC
6	ISO9001:2008	00615Q21215R1M	QAC
7	OHSAS18001:2007	00616S20618R1M	QAC
8	KOSHER		STAR-K
9	HALAL	SHI.10010.10010.170003.CN	MUI/IFANCA

4. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

The toxicological properties of this material have not been fully investigated.

Potential Health Effects

Eye: May cause eye irritation. The toxicological properties of this material have not been fully investigated.

Skin: May cause skin irritation. The toxicological properties of this material have not been fully investigated.

Ingestion: May cause irritation of the digestive tract. The toxicological properties of this substance have not been fully investigated.

Inhalation: May cause respiratory tract irritation. The toxicological properties of this substance



have not been fully investigated.

Chronic: Prolonged or repeated exposure may cause adverse reproductive effects. Adverse reproductive effects have been reported in animals.

5. FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin:

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion:

Never give anything by mouth to an unconscious person. Get medical aid. Do NOT induce vomiting. If conscious and alert, rinse mouth and drink 2-4 cupfuls of milk or water.

Inhalation:

Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Notes to Physician:

Treat symptomatically and supportively.

6. FIRE FIGHTING MEASURES

General Information:

As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Extinguishing Media:

Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

7. ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks:

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

8. HANDLING and STORAGE

Handling:

Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage:

Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from



incompatible substances.

9. EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits CAS# 461-72-3: Personal Protective Equipment Eyes: 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:

Wear appropriate protective gloves to prevent skin exposure.

Clothing:

Wear appropriate protective clothing to prevent skin exposure.

Respirators:

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

10. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Crystalline powder

Color: white

Odor: None reported.

pH: Not available.

Vapor Pressure: Not available.

Viscosity: Not available.

Boiling Point: Not available.

Freezing/Melting Point: 221.00 - 223.00 deg C

Autoignition Temperature: Not available.

Flash Point: Not available.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

Decomposition Temperature:

Solubility in water: slightly soluble

Specific Gravity/Density:

Molecular Formula: C₃H₄N₂O₂

Molecular Weight: 100.08

11. STABILITY AND REACTIVITY

Chemical Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Incompatible materials, dust generation, excess heat, strong oxidants.

Incompatibilities with Other Materials:



Oxidizing agents.

Hazardous Decomposition Products:

Nitrogen oxides, carbon monoxide, irritating and toxic fumes and gases, carbon dioxide, nitrogen.

Hazardous Polymerization: Has not been reported.

12. TOXICOLOGICAL INFORMATION

RTECS#:

CAS# 461-72-3: MT8210000 LD50/LC50:

Not available.

Carcinogenicity:

Hydantoin - Not listed by ACGIH, IARC, or NTP.

Other:

See actual entry in RTECS for complete information.

13. ECOLOGICAL INFORMATION

14. DISPOSAL CONSIDERATIONS

Dispose of in a manner consistent with federal, state, and local regulations.

15. TRANSPORT INFORMATION

IATA

Not regulated as a hazardous material.

IMO

Not regulated as a hazardous material.

RID/ADR

Not regulated as a hazardous material.

16. REGULATORY INFORMATION

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

S 28A After contact with skin, wash immediately with plenty of water.

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek



石家庄东华金龙化工有限公司 Shijiazhuang Donghua Jinlong Chemical Co., Ltd.
website: www.pushiyongdao.com Tel: +86 311 6790 4062/ 6661 9888

medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

CAS# 461-72-3: 1

Canada

CAS# 461-72-3 is listed on Canada's NDSL List.

CAS# 461-72-3 is not listed on Canada's Ingredient Disclosure List.

US FEDERAL

TSCA

CAS# 461-72-3 is listed on the TSCA inventory.

17. Disclaimer:

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