

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA. CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

MATERIAL SAFETY DATA SHEET (MSDS)

HYDANTOIN (FOR SYNTHESIS)

1. Product Identification

Synonyms: 2.4-Imidazolinedione CAS No.: 461-72-3

Product Coad: H0107900500

Molecular Weight: 100.08 Chemical Formula: C3H4N2O2

2. Composition/Information on Ingredients

CAS#	Chemical Name	Percent	EINECS/ELINCS
461-72-3	Hydantoin	99	207-313-3

3. Hazards Identification

EMERGENCY OVERVIEW

Appearance: white crystalline powder.

Caution! May cause eye and skin irritation. May cause respiratory and digestive tract irritation. May cause adverse reproductive effects. The toxicological properties of this material have not been fully investigated.

Target Organs: Reproductive system.

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.

4. 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.

5. 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. Flash Point: Not available.

Autoignition Temperature: Not available.

Explosion Limits, Lower:Not available. Upper: Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

6. 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.

AN ISO 9001: 2015 CERTIFIED



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7. 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.

8. Exposure Controls, Personal Protection

Engineering Controls: Use adequate ventilation to keep airborne concentrations low. Exposure Limits

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Hydantoin	none listed	none listed	none listed

OSHA Vacated PELs: Hydantoin: No OSHA Vacated PELs are listed for this chemical.

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.

9. Physical and Chemical Properties

Physical State: Crystalline powder Appearance: white Odor: None reported. pH: Not available. Vapor Pressure: Not available. Vapor Density: Not available. Evaporation Rate:Not available. Viscosity: Not available. Boiling Point: Not available. Freezing/Melting Point:221.00 - 223.00 deg C Decomposition Temperature:Not available. Solubility: slightly soluble Specific Gravity/Density:Not available. Molecular Formula:C3H4N2O2 Molecular Weight:100.08

10. 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.

11. Toxicological Information

RTECS#: CAS# 461-72-3: MT8210000 LD50/LC50: Not available. Carcinogenicity: CAS# 461-72-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65. Epidemiology: Experimental reproductive effects have been reported. Teratogenicity: No information available. Reproductive Effects: No information available. Mutagenicity: No information available. Neurotoxicity: No information available. Other Studies:



Canada TDG

No information available.

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12. Ecological Information

No information available

13. Disposal Considerations

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification. RCRA P-Series: None listed. RCRA U-Series: None listed.

14. Transport Information

US DOT Shipping Name: Not regulated as a hazardous material Hazard Class: UN Number: Packing Group:

15. Regulatory Information

US FEDERAL

TSCA

- CAS# 461-72-3 is listed on the TSCA inventory.
- Health & Safety Reporting List
- None of the chemicals are on the Health & Safety Reporting List.
- **Chemical Test Rules**
- None of the chemicals in this product are under a Chemical Test Rule.
- Section 12b
- None of the chemicals are listed under TSCA Section 12b.
- TSCA Significant New Use Rule
- None of the chemicals in this material have a SNUR under TSCA.
- CERCLA Hazardous Substances and corresponding RQs
- None of the chemicals in this material have an RQ.
- SARA Section 302 Extremely Hazardous Substances
- None of the chemicals in this product have a TPQ.
- No chemicals are reportable under Section 313. Section 313 Clean Air Act:
- This material does not contain any hazardous air pollutants.
- This material does not contain any Class 1 Ozone depletors.
- This material does not contain any Class 2 Ozone depletors.
- Clean Water Act:
- None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA. OSHA:
- None of the chemicals in this product are considered highly hazardous by OSHA. STATE
- CAS# 461-72-3 is not present on state lists from CA, PA, MN, MA, FL, or NJ.
- 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 37 Wear suitable gloves.
- S 45 In case of accident or if you feel unwell, seek medical advice
- immediately (show the label where possible).
- S 28A After contact with skin, wash immediately with plenty of water



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WGK (Water Danger/Protection)

CAS# 461-72-3: 1 Canada - DSL/NDSL CAS# 461-72-3 is listed on Canada's NDSL List. Canada - WHMIS WHMIS: Not available. This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all of the information required by those regulations. Canadian Ingredient Disclosure List

16. Other Information

Product Use: Laboratory Reagent.

In accordance with REACH Regulation (CE) Nº 1907/2006 and with CLP Regulation (CE) Nº 1272/2008

DISCLAIMER:

- SUVCHEM Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- SUVCHEM shall not be responsible for any damage resulting from handling or from contact with the above product.
- SUVCHEM provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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