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# Material Safety Data Sheet

# 5,5-Dimethylhydantoin

Section 1: Chemical Product and Company Iden	tification	
Product Name: 5,5-Dimethylhydantoin		
CAS#: 77-71-4		
RTECS: Not applicable.		
TSCA: Not applicable		
Cl#: Not applicable.		
Synonym: 5,5-Dimethyl-2,4-imidazolidinedione; 5,5-Dimethylimidazolidine-2,4-dione		
Chemical Name: 5,5-Dimethylhydantoin		
Chemical Formula:C5H8N2O2		
Contact Information for Emergency: (0086) 551 65418678		
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Section 2: Composition and Information on Ingredients				
Composition:				
Name	CAS # %	By Weight		
5,5-Dimethylhydantoin	77-71-4	≥ 100.0%		
Toxicological Data on Ingredients: Not applicable.				

# Section 3: Hazards Identification

Emergency Overview	
OSHA Hazards	
No known OSHA hazards	
HMIS Classification	
Health Hazard: 0	
Flammability: 0	
Physical hazards: 0	
NFPA Rating	

Health Hazard: 0 Fire:0

Reactivity Hazard: 0

## **Potential Health Effects**

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

# Section 4: First Aid Measures

If inhaled If breathed in, move person into fresh air. If not breathing give artificial respiration

In case of skin contact Wash off with soap and plenty of water.

In case of eye contact Flush eyes with water as a precaution.

If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water.

# Section 5: Fire and Explosion Data

#### Flammable properties

Flash point no data available

Ignition temperature no data available

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

#### Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

# Section 6: Accidental Release Measures

#### Personal precautions

Avoid dust formation.

**Environmental precautions** Do not let product enter drains.

#### Methods for cleaning up

Sweep up and shovel. Keep in suitable, closed containers for disposal.

# Section 7: Handling and Storage

## Handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

#### Storage

Keep container tightly closed in a dry and well-ventilated place.

## Section 8: Exposure Controls/Personal Protection

Contains no substances with occupational exposure limit values.

#### Personal

protective         equipment         Respiratory         protection         Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).         Hand protection         For prolonged or repeated contact use protective gloves.         Eye protection         Safety glasses         Hygiene measures         General industrial hygiene practice.	
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Safety glasses Hygiene measures	

# **Section 9: Physical and Chemical Properties**

#### Appearance

Form	crystalline			
Colour	colourless			
Safety data				
pH no data available				
Melting point 176 - 178 °C (349 - 352 °F)				
Boiling point no data available				
Flash point	no data available			
Ignition temp	erature no data available			
Lower explos	ion limit no data available			
Upper explos	ion limit no data available			
Water solubility no data available				

# Section 10: Stability and Reactivity Data

Storage stability Stable under recommended storage conditions. Materials to avoid Strong oxidizing agents Hazardous decomposition products Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NOx)

# Section 11: Toxicological Information

## Acute toxicity

LD50 Oral - rat - 7,800 mg/kg

Remarks: Behavioral:Somnolence (general depressed activity). Lungs, Thorax, or Respiration:Dyspnea.

#### Irritation and corrosion

no data available

## Sensitisation

no data available

#### Chronic exposure

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

## Signs and Symptoms of Exposure

Central nervous system depression, To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

#### Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

**Skin** May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation

Ingestion May be harmful if swallowed.

Additional Information

RTECS: MU0977000

# Section 12: Ecological Information

## Elimination information (persistence and degradability)

no data available

## **Ecotoxicity effects**

Toxicity to fish

LC50 - Pimephales promelas (fathead minnow) - 16,500 mg/l - 96 h

## Further information on ecology

no data available

# Section 13: Disposal Considerations

# Product

Observe all federal, state, and local environmental regulations.

# Contaminated packaging

Dispose of as unused product.

## Section 14: Transport Information

#### DOT (US)

Not dangerous goods

#### IMDG

Not dangerous goods

#### IATA

Not dangerous goods

# Section 15: Other Regulatory Information

#### **OSHA Hazards**

No known OSHA hazards

#### **DSL Status**

All components of this product are on the Canadian DSL list.

#### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that

exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# SARA 311/312 Hazards

No SARA Hazards

#### Massachusetts Right To Know Components

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components	CAS-No.	Revision Date
5,5-Dimethylhydantoin	77-71-4	
New Jersey Right To Know Components	CAS-No.	Revision Date
5,5-Dimethylhydantoin	77-71-4	

#### California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth, or any other reproductive defects.

# Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

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