1 Identification of the substances/ mixture and of the company/ undertaking

1.1 Product Identifiers
Product Number       RM6873
Product Name          1,3-Dibromo-5,5-dimethylhydantoin
                      For synthesis
CAS No. :             77-48-5
EC No. :              201-030-9

1.2 Relevant identified uses of the substance or mixture and uses advised against
1.2.1 Relevant identified uses       Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet
Produced by           HiMedia Laboratories Private Limited
Address               23, Vadhani Industrial Estate, LBS Marg, Ghatkopar (W), Mumbai - 400 086
                      India
Tel. No.              +91-22-2500 0970, +91-22-2500 1607
Mail Id               info@himedialabs.com
Fax No.               +91-22-25002468
                      Website : www.himedialabs.com

1.4 Emergency Tel. No.
Emergency Tel. No.     Please contact the regional HiMedia representation in your country

2 Hazards Identification

2.1 Classification of the substance or mixture
CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]
Oxidising solids, (Category 2), H272
Acute toxicity, Oral, (Category 3), H301
Skin corrosion or irritation, (Category 1B), H314
Hazardous to the aquatic environment, acute hazard, (Category 1), H400

2.2 Label elements
Labeling according to Regulation (EC) No.1272/2008

Pictogram
Signal word           Danger
Hazard Statement(s)
H272                  May intensify fire; oxidizer
H301                  Toxic if swallowed
H314                  Causes severe skin burns and eye damage
H400                  Very toxic to aquatic life
Precautionary Statement(s)
**P221** Take any precaution to avoid mixing with combustibles.
**P210.** Keep away from heat/sparks/open flames/hot surfaces.
**P260** Do not breathe dust/fume/gas/mist/vapours/spray.
**P220** Keep/Store away from clothing/combustible materials.
**P273** Avoid release to the environment.
**P303+P361+P353** IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
**P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
**P301+P330+P331** IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
**P405** Store locked up.
**P501** Dispose of contents/container to an approved waste disposal plant.

### 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.

### 3 Composition/Information On Ingredients

#### 3.1 Substances

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,3-Dibromo-5,5-dimethylhydantoin For synthesis</td>
<td>As Per EC Regulation 1272/2008 Ox. Liq. 2; Acute Tox.oral. 3; Skin Corr. 1A; Aquatic Acute 1 H272; H301; H314; H400</td>
<td>100%</td>
</tr>
</tbody>
</table>

For the full text of the H-Statements and classification mentioned in this Section, see Section 16

### 4 First Aid Measures

#### 4.1 Description of first aid measures

**General advice**
Consult a physician. Show this safety data sheet to the doctor in attendance.

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

**In case of skin contact**
Wash with plenty of soap and water. Consult a physician.

_in case of eye contact_
Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

_if swallowed_
Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. 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 labeling (see section 2.2) and/or in section 11.

4.3 _Indication of immediate medical attention and special treatment needed_
No data available

---

5 _Fire Fighting Measures_

5.1 _Extinguishing media_

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

_Unsuitable extinguishing media_
No data available.

5.2 _Special hazards arising from the substance or mixture_
Carbon oxides, nitrogen oxides (NOx), Hydrogen bromide gas

5.3 _Precautions for fire-fighters_
Wear self contained breathing apparatus for fire fighting if necessary

5.4 _Further information_
No data available

---

6 _Accidental Release Measures_

6.1 _Personal precautions, protective equipment and emergency procedures_
Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

6.2 _Environmental precautions_
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into environment must be avoided.

6.3 _Methods and materials for containment and cleaning up_
Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

6.4 _Reference to other sections_
For disposal see Section 13.

---

7 _Handling and Storage_

7.1 _Precautions for safe handling_
Avoid contact with skin and eyes. Avoid inhalation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of heat and ignition - No smoking. For precautions see section 2.2

7.2 Conditions for safe storage, including any incompatibilities
Store in cool place. Keep container tightly closed in a dry and well-ventilated place. 

*Recommended Storage Temperature*: Below 30°C

7.3 Specific end uses
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

---

8 Exposure Controls/Personal Protection

8.1 Control parameters
Components with workplace control parameters

8.2 Exposure controls

*Appropriate engineering controls*
Handle in accordance to general industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

*Personal protective equipment*

*Hygiene measure*
Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

*Eye/face protection*
Faceshield and safety goggles.

*Skin protection*
Handle with gloves.

*Body protection*
Complete suit protecting against chemicals.

*Respiratory protection*
Air-purifying respirators.

*Environment exposure controls*
Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

---

9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White to orange powder or chunks or solid</td>
</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available</td>
</tr>
<tr>
<td>Flash point</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No data available</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (Solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>No data available</td>
</tr>
</tbody>
</table>
9.2 Other safety information
No data available

10 Stability and Reactivity
10.1 Reactivity
No data available

10.2 Chemical stability
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions
No data available

10.4 Conditions to avoid
Incompatible material

10.5 Incompatible materials
Strong reducing agents, Strong bases

10.6 Hazardous decomposition products
Other decomposition products - refer section 5.2.
In the event of fire - refer section 5.

11 Toxicological Information
11.1 Information on toxicological effects
Acute toxicity
No data available
Skin corrosion/irritation
No data available
Serious eye damage/eye irritation
No data available
Respiratory or skin sensitisation
No data available
Germ cell mutagenicity
No data available
Carcinogenicity
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.
Reproductive toxicity
No data available

Specific target organ toxicity - single exposure
No data available

Specific target organ toxicity - repeated exposure
No data available

Aspiration hazard
No data available

Additional Information
RTECS : MU0686000

12 Ecological Information
12.1 Toxicity
No data available

12.2 Persistence and degradability
No data available

12.3 Bioaccumulative potential
No data available

12.4 Mobility in soil
No data available

12.5 PBT and vPvB assessment
PBT and vPvB assessment not available Chemical safety assessment is not required

12.6 Other adverse effects
Discharge into the environment must be avoided.

13 Disposal Considerations
13.1 Waste treatments methods
Product
Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustive solvent and burn in chemical incinerator equipped with an afterburner and scrubber.

13.2 Contaminated packaging
Dispose of as unused product.

14 Transport Information
14.1 UN-No
ADNR : 3087 ADR : 3087 IATA_C : 3087 IATA_P : 3087 IMDG : 3087 RID : 3087

14.2 UN proper shipping name
ADNR : Oxidizing solid, toxic, n.o.s. (1,3-Dibromo-5,5-dimethylhydantoin)
ADR : Oxidizing solid, toxic, n.o.s. (1,3-Dibromo-5,5-dimethylhydantoin)
IATA_C : Oxidizing solid, toxic, n.o.s. (1,3-Dibromo-5,5-dimethylhydantoin)
IATA_P : Oxidizing solid, toxic, n.o.s. (1,3-Dibromo-5,5-dimethylhydantoin)
IMDG : Oxidizing solid, toxic, n.o.s. (1,3-Dibromo-5,5-dimethylhydantoin)
RID : Oxidizing solid, toxic, n.o.s. (1,3-Dibromo-5,5-dimethylhydantoin)

14.3 Transport hazard class(es)
ADNR : 5.1  ADR : 5.1  IATA_C : 5.1  IATA_P : 5.1  IMDG : 5.1  RID : 5.1

14.4 Packaging group
ADNR : II  ADR : II  IATA_C : II  IATA_P : II  IMDG : II  RID : II

14.5 Environmental hazards
ADNR : No  ADR : No  IMDG : Marine Pollutant : No  IATA_C : No  IATA_P : No  RID : No

14.6 Special precautions for use
No data available

15 Regulatory Information
This safety datasheet complies with the requirements of Regulation(EC) No. 1907/2006.

15.1 Safety health and environment regulations/legislation specific for the substance or mixture
No data available

15.2 Chemical Safety Assessment
No data available

16 Other information
Text of H-Statements and EUH-Phrases mentioned in section 3
H272 May intensify fire; oxidizer
H301 Toxic if swallowed
H314 Causes severe skin burns and eye damage
H400 Very toxic to aquatic life
Ox. Liq. 2 Oxidising liquids, Category 2
Acute Tox.oral. 3 Acute toxicity, oral, Category 3
Skin Corr. 1A Skin corrosion or irritation, Category 1A
Aquatic Acute 1 Hazardous to the aquatic environment, acute hazard, Category 1

Further Information

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