Shanghai Aladdin Biochemical Technology Co., Ltd. No. 809, Chuhua Branch Road, Fengxian District, Shanghai

# SAFETY DATA SHEET

Version: v1 Revision Date: 2024-01-25 Print Date: 2024-02-01

# SECTION 1:Identification of the substance/mixture and of the company/undertaking

## 1.1 Product identifiers

| Product name   | : 1,3-Dibromo-5,5-dimethylhydantoin |
|----------------|-------------------------------------|
| Product Number | : D118556                           |
| Brand          | : aladdin                           |
| CAS-No.        | : 77-48-5                           |

# 1.2 Relevant identified uses of the substance or mixture and uses advised against

: Laboratory chemicals, Manufacture of substances.

Identified uses

# 1.3 Details of the supplier of the safety data sheet

| : Shanghai Aladdin Biochemical Tech Co.,Ltd |
|---|
| : 36 Xinjinqiao Road, Shanghai              |
| : 400-620-6333                              |
| : no data available                         |
|   |

## 1.4 Emergency telephone number

| Emergency Phone | : 0532-83889090 |
|-----------------|-----------------|
|-----------------|-----------------|

# **SECTION 2: Hazards identification**

## 2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

# 2.2 GHS Label elements, including precautionary statements

| Pictogram                  |  |
|----------------------------|--|
| Signal word                | Danger   |
| Hazard statement(s)        |  |
| H272                       | May intensify fire; oxidizer   |
| Precautionary statement(s) |  |
| P210                       | Keep away from heat, hot surface, sparks, open flames and other ignition sources No smoking. |
| P220                       | Keep away from clothing and other combustible materials.                                     |
| P260                       | Do not breathe dust/fume/gas/mist/vapors/spray.  |
| P261                       | Avoid breathing dust/fume/gas/mist/vapors/spray.   |
| P264                       | Wash hands [and] thoroughly after handling.  |
| P270                       | Do not eat, drink or smoke when using this product.  |

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| P272           | Contaminated work clothing should not be allowed out of the workplace.      |
|----------------|---|
| P273           | Avoid release to the environment.   |
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.  |
| P302           | IF ON SKIN:   |
| P330           | Rinse mouth.  |
| P361           | Take off immediately all contaminated clothing.                             |
| P363           | Wash contaminated clothing before reuse.                                    |
| P391           | Collect spillage.   |
| P301+P312      | IF SWALLOWED: call a POISON CENTER/doctor/ IF you feel unwell.              |
| P301+P330+P331 | IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.                          |
| P302+P352      | IF ON SKIN: wash with plenty of water.                                      |
| P304+P340      | IF INHALED: Remove person to fresh air and keep comfortable for breathing.  |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact |
|                | lenses if present and easy to do - continue rinsing.                        |
| P333+P313      | IF SKIN irritation or rash occurs: Get medical advice/attention.            |
| P362+P364      | Take off contaminated clothing and wash it before reuse.                    |
| P370+P378      | In case of fire: Use to extinguish.   |
| P405           | Store locked up.  |
| P501           | Dispose of contents/container to an approved waste disposal plant.          |

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

# **SECTION 3: Composition/information on ingredients**

## 3.1 Substances

| Synonyms<br>imidazolidinedione | : Dibromantin; DBDMH; Bromodan; DDH; 1,3-Dibromo-5,5-dimethyl-2, |
|--------------------------------|--|
| Formula                        | : C5H6Br2N2O2  |
| Molecular weight               | : 285.93   |
| CAS No.                        | : 77-48-5  |
| EC-NO.                         | : no data available  |

#### Component

1,3-Dibromo-5,5-

dimethylhydantoin

no data available

Classification

97%

Concentration

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

General advice

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Consult a physician.Show this safety data sheet to the doctor in attendance.Move out of dangerous area. If inhaled

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

In case of skin contact

Take off contaminated clothing and shoes immediately.Wash off with soap and plenty of water.Take victim immediately

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.Continue rinsing eyes during If swallowed

Do NOT induce vomiting.Never give anything by mouth to an unconscious person.Rinse mouth with water.Consult a

# 4.2 Most important symptoms and effects, both acute and delayed

This substance causes significant damage to mucosal tissue, upper respiratory tract, eyes, and skin, resulting in coughing, shortness of breath, headache, and nausea

# 4.3 Indication of any immediate medical attention and special treatment needed

no data available

# **SECTION 5: Firefighting 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

Hazardous decomposition products formed under fire conditions.- Carbon oxides, nitrogen oxides (NOx), Hydrogen

## 5.3 Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

# 5.4 Further information

Cool unopened containers with water spray.

# SECTION 6: Accidental release measures

# 6.1 Personal precautions, protective equipment and emergency procedures

Wear respiratory protection.Avoid dust formation.Avoid breathing vapours, mist or gas.Ensure adequate ventilation. <br/><br/>kor/>Evacuate personnel to safe areas.Avoid breathing dust.<br/>

# 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.Do not let product enter drains.Discharge into the environment <br/>str/>must be avoided.

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# 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-<br/>brushing and place in container for disposal according to local regulations (see section 13).Keep in suitable, closed <br/>closed <br/>section 13).Keep in suitable,

## 6.4 Reference to other sections

For disposal see section 13.

# **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. <br/>
Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No <br/>
Smoking. Keep away from heat and sources of ignition. Normal

# 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.<br/>
Moisture sensitive.Keep in a dry place.<br/>

## 7.3 Specific end use(s)

no data available

## SECTION 8: Exposure controls/personal protection

# 8.1 Control parameters

## 8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing.Wash hands before breaks and immediately after handling the product. <br/>

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate <br/>sor/>government standards such as NIOSH (US) or EN 166(EU).<br/>

Skin protection

Handle with gloves.Gloves must be inspected prior to use.Use proper glove removal technique (without touching <br/>glove's outer surface) to avoid skin contact with this product.Dispose of contaminated gloves after use in <br/>accordance with applicable laws and good laboratory practices.Wash and dry hands.<br/><br/>Full contact <br/>Material: Nitrile rubber <br/>Minimum layer thickness: 0.11 mm <br/>Break through time: 480 min <br/>Material tested:Dermatril? (KCL 740 / Aldrich Z677272, Size M) <br/>br/>Splash contact <br/>Material: Nitrile rubber <br/>Minimum layer thickness: 0.11 mm <br/>Splash contact <br/>Material: Nitrile rubber <br/>Minimum layer thickness: 0.11 mm <br/>Splash contact <br/>Material: Nitrile rubber <br/>Material: Nitrile rubber <br/>Minimum layer thickness: 0.11 mm <br/>Splash contact zero.<br/>Splash contact zer

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<br/>
<br/>
hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be <br/>
construed as offering an approval for any specific use scenario.<br/>
Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the <br/>concentration and amount of the dangerous substance at the specific workplace.<br/>br/>Aldrich - 157902 Page 4 of 7 <br/>

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 <br/>br/>(US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole <br/>br/>means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved <br/>br/>under appropriate government standards such as NIOSH (US) or CEN (EU).<br/>br/>Control of environmental exposure no data available

# SECTION 9: Physical and chemical properties

## 9.1 Information on basic physical and chemical properties

| 、 <b>.</b>                                 |                   |
|--|-------------------|
| a) Appearance                              | no data available |
| b) Odour                                   | no data available |
| c) Odour Threshold                         | no data available |
| d) pH                                      | no data available |
| e) Melting point/freezing point            | 198°C             |
| f) Initial boiling point and boiling range | no data available |
| g) Flash point                             | 155°              |
| h) Evaporation rate                        | no data available |
| i) Flammability (solid, gas)               | no data available |
| j) Upper/lower flammability or             |                   |
| explosive limits                           | no data available |
| k) Vapour pressure                         | no data available |
| I) Vapour density                          | no data available |
| m) Relative density                        | no data available |
| n) Water solubility                        | no data available |
| o) Partition coefficient: n-octanol/water  | no data available |
| p) Auto-ignition temperature               | no data available |
| q) Decomposition temperature               | no data available |
| r) Viscosity                               | no data available |
| s) Explosive properties N                  | no data available |
| t) Oxidizing properties N                  | no data available |
|  |                   |

## 9.2 Other safety information

no data available

## SECTION 10: Stability and reactivity

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#### 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

Strong reducing agents, Strong bases

## 10.5 Incompatible materials

no data available

## 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions.- Carbon oxides, nitrogen oxides (NOx), Hydrogen bromide gas

# SECTION 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 asprobable, 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 acarcinogen or potential carcinogen by ACGIH.NTP: No component of this product present at levels greater than or equal to 0.1% is identified as aknown or anticipated carcinogen by NTP.OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as acarcinogen or potential carcinogen by OSHA. Reproductive toxicity no data available Specific target organ toxicity - single exposure no data available

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> Specific target organ toxicity - repeated exposure no data available Aspiration hazard no data available Additional Information no data available

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Toxicity to fish LC50 - Oncorhynchus mykiss (rainbow trout) - 0.16 mg/l - 96.0 h LC0 - Oncorhynchus mykiss (rainbow trout) - 0.16 mg/l - 96.0 h Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water fl

## 12.2 Persistence and degradability

no data available <br/>

## 12.3 Bioaccumulative potential

no data available <br/>

#### 12.4 Mobility in soil

no data available

## 12.5 Results of PBT and vPvB assessment

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.<br/>Very toxic to aquatic life.<br/>

## 12.6 Other adverse effects

no data available

## SECTION 13:

## 13.1 Disposal considerations

Product

Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material <br/>is highly flammable.Offer surplus and non-recyclable solutions to a licensed disposal company.Contact a licensed <br/>professional waste disposal service to dispose of this material.Dissolve or mix the material with a combustible solvent <br/>br/>and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging no data available

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# **SECTION 14: Transport information**

| DOT (US)   |                                  |                              |
|--|----------------------------------|------------------------------|
| UN number: 3087  | Packing group: II                | Class: 5.1(6.1)              |
| Proper shipping name: OXIDIZING  | Reportable Quantity(RQ): no data | Poison Inhalation Hazard: No |
| SOLID, TOXIC, N.O.S. (1,3-Dibromo-5,5-   | available                        |                              |
| dimethylhydantoin)   |                                  |                              |
| Environmental Hazards: No  |                                  |                              |
| IMDG   |                                  |                              |
| UN number: 3087  | Packing group: II                | EMS-No: No                   |
| Proper shipping name: OXIDIZING SOLID, TOXIC, N.O.S. (1,3-Dibromo-5,5-dimethylhydantoin) |                                  |                              |
| ΙΑΤΑ   |                                  |                              |
| UN number: 3087  | Packing group: II                | Class: 5.1(6.1)              |
| Proper shipping name: OXIDIZING SOLID, TOXIC, N.O.S. (1,3-Dibromo-5,5-dimethylhydantoin) |                                  |                              |

# **SECTION 15: Regulatory information**

no data available

# SECTION 16: Other information

#### Further information

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