

## 1-Aminohydantoin hydrochloride

#### Hayashi Pure Chemical Ind.,Ltd.

Date of issue: 11/1/2022 SDS code: CC-02 Version: 01

## Safety Data Sheet

## 1. Chemical product and company identification

**Product name** 1-Aminohydantoin hydrochloride

SDS code CC-02

HAYASHI PURE CHEMICAL IND.,LTD.

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06-6910-7305

For research and experimental use only.

Do not use for any purpose other than research and experiment. Do not use on a

human body or for animal medicines, foods, household products, cosmetics, etc.

classification not possible

Do not use in the environment.

#### 2. Hazards identification

#### **GHS** classification

Physical hazards **Explosives** classification not possible

> Flammable gases No classification

classification not possible Aerosol

Oxidizing gases No classification Gases under pressure No classification Flammable liquids No classification

Flammable solids classification not possible Self-reactive substances and classification not possible

mixtures

Pyrophoric liquids No classification

Pyrophoric solids classification not possible Self-heating substances and classification not possible

mixtures

Substances and mixtures which in

contact with water emit flammable

gases

No classification Oxidizing liquids

Oxidizing solids classification not possible Organic peroxides classification not possible Corrosive to metals classification not possible Desensitized eplosives classification not possible Acute toxicity (oral) classification not possible Acute toxicity (dermal) classification not possible

Acute toxicity (inhalation:gas) classification not possible Acute toxicity (inhalation:vapors) classification not possible

Acute toxicity (inhalation:dust/mist) classification not possible

Skin corrosion/irritation classification not possible Serious eye damage/eye irritation classification not possible

Respiratory sensitization classification not possible Skin sensitization classification not possible Germ cell mutagenicity classification not possible Carcinogenicity classification not possible Reproductive toxicity classification not possible

exposure)

Specific target organ toxicity (single classification not possible

1/5

Company/undertaking

identification

Telephone: 06-6910-7305

URL: https://www.hpc-j.co.jp/

**Emergency number** 

Recommended use

Restrictions on use

Health hazards

Specific target organ toxicity

(repeated exposure)

classification not possible

classification not possible

Aspiration hazard

classification not possible classification not possible

Environmental hazards

Hazardous to the aquatic environment, short-term (acute)

Hazardous to the aquatic

Hazardous to the ozone layer

environment, long-term (chronic)

classification not possible

## 3. Composition/information on ingredients

Distinction of substance or mixture

| Name                              | Concentration or    | Formula       | Kanpo number |            | CAS RN    |
|-----------------------------------|---------------------|---------------|--------------|------------|-----------|
| Name                              | Concentration range |               | CSCL no      | ISHL no    | OAO KK    |
| 1-Aminohydantoin<br>hydrochloride | ≧95% <b>、</b> ≦100% | C3H5N3O2 •HCI | -            | 8-(2)-2454 | 2827-56-7 |

The above concentration or concentration range are not product specification.

All percentages listed in the above concentration or concentration range are wt%, unless otherwise specified.

#### 4. First aid measures

#### First aid measures

First-aid measures after inhalation Remove person to fresh air and keep comfortable for breathing.

Get immediate medical advice/attention.

First-aid measures after skin

contact

Remove/Take off immediately all contaminated clothing.

Gently wash with plenty of soap and water.

Get immediate medical advice/attention.

First-aid measures after eye

contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

Get immediate medical advice/attention.

First-aid measures after ingestion

Rinse mouth. Get immediate medical advice/attention.

#### 5. Fire fighting measures

Suitable extinguishing media

Use proper extinguishing media depending on peripheral fire.

Unsuitable extinguishing media

Do not use a heavy water stream.

Hazardous decomposition products

in case of fire

In case of fire, product may produce irritative or toxic fumes/gases.

Firefighting instructions If ignited, for the initial fire-fighting, cut off combustion sources, extinguish

fire at a stroke using appropriate fire-extinguishers.

In the case of peripheral fire, quickly remove movable containers to safe

If unable to be moved containers, sprinkle water to containers and

surrounding equipment, etc. to cool.

Protection during firefighting

Wear appropriate fire-resistant clothing including self contained-

compressed air breathing apparatus.

#### 6. Accidental release measures

## Personal Precautions, Protective Equipment and Emergency Procedures

General measures Wear appropriate personal protective devices to prevent inhalation and

contact with eye, skin, and clothing, and never attempt to work on the lee.

**Environmental precautions** 

**Environmental precautions** : Avoid release to the environment.

Prevent entry to sewers and public waters.

## Methods and Equipment for Containment and Cleaning up

Methods for cleaning up Take care not to generate dust, sweep it up as much as possible, collect it

in an empty container that can be sealed, and move it to a safe place.

Wash out the spilled area with large amounts of water.

## 7. Handling and storage

#### Handling

Technical measures : Work with appropriate personal protective equipment to prevent inhalation

or contact to eyes, skin, and clothing.

Handle with care to prevent leakage, overflowing, or scattering, minimize

generation of mist or vapor, and thoroughly ventilate.

Precautions for safe handling : Do not eat, drink or smoke when using this product.

Thoroughly wash your hands and gargle after handling.

Ensure good ventilation of the work station.

Do not contact, breathe or swallow.

Prevents handling of incompatible

substances or mixtures

Avoid prolonged or repeated exposure.

**Storage** 

Storage conditions : Store in a well-ventilated place, away from direct sunlight. Keep container

tightly closed and keep away from fire and heat sources.

Material used in

packaging/containers

Light shielding airtight container.

Technical measures : Comply with applicable regulations.

Storage temperature : Refrigerate: 2-10°C

# 8. Exposure controls / Personal protection equipment

Appropriate engineering controls : Cover up tightly the generation source at the handling place or install local

exhaust equipment or overall ventilation equipment. Install safety showers and eye-fountains near a handling place. Clearly indicate the location.

**Protective equipment** 

Respiratory protection : Dustproof mask
Hand protection : Protective gloves

Eye protection : Protective glasses (general glasses, glasses with side-shields, goggles)

Skin and body protection : Protective clothing, Protective boots, Protective apron

## 9. Physical and chemical properties

Physical state : Solid Appearance : Solid

Color : white ~ very pale yellow

Odor No data available pΗ No data available Melting point No data available Freezing point No data available Boiling point No data available No data available Flash point Auto-ignition temperature No data available Decomposition temperature No data available Flammability (solid, gas) No data available Vapor pressure No data available Relative density No data available Density No data available Relative gas density No data available Solubility No data available Partition coefficient n-No data available

octanol/water (Log Pow)

Explosive limits (vol %) : No data available Viscosity, kinematic : No data available Particle characteristics : No data available

10. Stability and reactivity

Reactivity No data available

Chemical stability Stable under normal handling conditions.

Possibility of hazardous reactions No data available Conditions to avoid Sunlight, Heat No data available Incompatible materials

Hazardous decomposition Nitrogen oxides, Chlorine and its compounds

products

## 11. Toxicological information

The information in this section is based on the "GHS Classification Results" by NITE.

| 1-Aminohydantoin hydrochloride        |                   |  |
|---------------------------------------|-------------------|--|
| Acute toxicity (oral)                 | No data available |  |
| Acute toxicity (dermal)               | No data available |  |
| Acute toxicity (gas)                  | No data available |  |
| Acute toxicity (vapour)               | No data available |  |
| Acute toxicity (inhalation:dust/mist) | No data available |  |
| Skin corrosion/irritation             | No data available |  |
| Serious eye damage/irritation         | No data available |  |
| Respiratory sensitization             | No data available |  |
| Skin sensitization                    | No data available |  |
| Germ cell mutagenicity                | No data available |  |
| Carcinogenicity                       | No data available |  |
| Reproductive toxicity                 | No data available |  |
| STOT-single exposure                  | No data available |  |
| STOT-repeated exposure                | No data available |  |
| Aspiration hazard                     | No data available |  |

## 12. Ecological information

The information in this section is based on the "GHS Classification Results" by NITE.

| 1-Aminohydantoin hydrochloride                       |                   |  |
|--|-------------------|--|
| Hazardous to Aquatic Environment - Acute Hazard      | No data available |  |
| Hazardous to Aquatic Environment -<br>Chronic Hazard | No data available |  |
| Persistence and degradability                        | No data available |  |
| Bioaccumulative potential                            | No data available |  |
| Mobility in soil                                     | No data available |  |
| Hazardous to the ozone layer                         | No data available |  |

## 13. Disposal considerations

Ecology - waste materials With the detail information of the waste, subcontract its disposal to a

waste disposer authorized by a Prefectural Governor.

Contaminated container and

Empty the packaging completely prior to disposal. packaging

Empty containers should be taken for recycle, recovery or waste in

accordance with local regulation.

## 14. Transport information

## **International Regulations**

#### Transport by sea(IMDG)

UN-No. (IMDG) Not applicable Proper Shipping Name (IMDG) Not applicable Not applicable Packing group (IMDG) Not applicable Transport hazard class(es) (IMDG)

#### Air transport(IATA)

UN-No. (IATA) Not applicable Proper Shipping Name (IATA) Not applicable Not applicable Packing group (IATA) Transport hazard class(es) (IATA) Not applicable Marine pollutant Not applicable

Regulations in Japan

Regulatory information by sea Not applicable Regulatory information by air Not applicable

When transporting, load containers so that they do not tip over, Special transport precautions

damage, drop or collapse. Make sure there is no leak in containers.

#### 15. Regulatory information

#### **National law**

Industrial Safety and Health Law Not applicable Japanese Poisonous and Not applicable

Deleterious Substances Control Law

Fire Service Law Not applicable

Foreign Exchange and Foreign

Trade Control Act

Export Trade Control Ordinance appendix 1-16

Japanese Pollutant Release and

Transfer Register Law (PRTR Law)

Not applicable

#### 16. Other information

Data sources Handbook of 17322 Chemical Products, The Chemical Daily Co, Ltd.

International Chemical Safety Cards.

National Institute of Technology and Evaluation (NITE). 2020 Emergency Response Guidebook (ERG 2020).

Other information The SDS is copyrighted material of Hayashi Pure Chemical Ind, Ltd.

This Safety Data Sheet is intended to be provided for business operators who handle chemical substance products of the relevant product and is not intended to assure safety in any way. The Safety Data Sheet does not verify all the information on the applicable chemical substance in the present time. With the recognition in that unknown danger constantly exists in the relevant chemical substance, the product shall be used in the principle of self-responsibility of the user with the highest priority to safety from transport and unpacking to disposal. When the relevant chemical substance is used, the user him/herself shall collect safety information and shall investigate laws and regulations at the place, organizations, countries, etc. where the substance is actually used and give the highest priority to them. The Company shall take no responsibility for investigating state and local regulations and the user shall handle this problem on his/her own responsibility. In the event that SDS in Japanese and SDS translated into other languages exist, the document described in Japanese is prior to all other documents whether or not there is any difference in contents, and documents in other languages shall be references.