

# Safety Data Sheet



#### 1. Identification of the Substance/Mixture and the Supplier

Supplier : National Institute of Advanced Industrial Science and Technology

(AIST)

Address : 1-3-1 Kasumigaseki, Chiyoda, Tokyo, Japan

Office in Charge : Reference Materials Office, Center for Quality Management of

Metrology, National Metrology Institute of Japan (NMIJ)

Person in Charge : Person in Charge of Certified Reference Materials

Telephone No. : +81-29-861-4059 Fax No. : +81-29-861-4009

Emergency Contact : Same as above

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ID Number : 6014001

Identity of : Certified Reference Material NMIJ CRM 6014-a

Substance/Mixture L-Phenylalanine

Recommended Use of the Chemical and Restriction on Use

: This reference material can be used, in amino acid analysis, for preparation of standard solution, calibration of analysis equipment and validation of analysis method/equipment. Do not use this

reference material for other purposes than testing/research.

This CRM is a reference material (specified in the Japanese

Industrial Standard (JIS) Q 0030).

#### 2. Hazards Identification

GHS Classification : Not classifiable

GHS Label element : Signal word : -

Hazard communication : -

Other hazard : One of the essential amino acids very low in toxicity, but harmful Communication if inhaled or ingested in large quantity,. Irritates eye, respiratory

tract and mucous membrane

Precautionary : [Preventive Measures]

statement Use appropriate protective equipment to prevent inhalation and

contact with eye, skin or clothing

[Response]

If inhaled: Remove from area of exposure and get some fresh air.

Keep warm with a blanket and keep one at rest.

Get medical treatment.

If on skin : Wash with soap and plenty of water. If necessary,

get medical assistance

If in eye : Immediately flash with plenty of clean water and get

medical treatment

If swallowed: Induce vomit by drinking water or salt solution, get

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medical assistance if there is any abnormal condition.

[Storage]

Store in a clean desiccator at room temperature (about 15 °C to

25 °C) protected from light.

[Disposal]

Commission waste disposal to a specialized industrial waste disposal contractor licensed by the prefectural governor.

Hazardous and toxic properties not specified in the above are not

subject to the classification or not classifiable.

# 3. Composition/Information on Ingredients

Single or compound : Single product

product

Chemical Ingredient : L-Phenylalanine

Name

Other name : (S)-2-amino-3- phenylpropionic acid

Content : 99.9 %

Chemical formula or : C<sub>6</sub>H<sub>5</sub>CH<sub>2</sub>CH(NH<sub>2</sub>)COOH

structural formula

Molecular Weight : 165.19

Reference Number in : Act on the Evaluation of Chemical Substances and Regulation of

Gazetted List in Japan Their Manufacture, etc. : (9)-1283

Industrial Safety and Health Act : Published

CAS No. : 63-91-2

## 4. First-aid Measures

If in eyes : Rinse with plenty of clean water, get medical assistance

If on skin : Wash with soap and plenty of water, if necessary, get medical

assistance

If inhaled : Remove from area of exposure and get some fresh air Get medical

assistance

If swallowed : Drink a lot of water and induce vomit, get medical treatment if

there is

any abnormal condition

Measures to be taken : Use personal protective equipment.

to protect the person applying first aid

5. Fire-fighting Measures

Extinguishing media : Water, powder, carbon dioxide, foam, dry sand

Specific hazards at the : May generate irritating or toxic gas

time of fire

Specific extinguishing : Remove combustible or ignitable materials from near the fire

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and start extinguishing with extinguishing agent, promptly measures

transfer movable containers to a safe place, if impossible to

move, cool the periphery of the container with water spray

personnel

Protecting fire- fighting : Fire extinguishing activities from the windward and avoid inhaling toxic gas. Use personal protective equipment such as fire-safe clothing, air breathing apparatus, etc. as the situation

demands

#### 6. Accidental Release Measures

Personal precaution : If indoor, ventilate well until the treating process is completed

Protective properly.

Wear appropriate protective equipment to protect the skin from equipment and emergency spattering droplets, etc. and prevent inhaling dust/particulate or

procedures

Environmental To prevent causing environmental impact, do not release the

precautions products into rivers, etc. through drainage. Before discharging

contaminated

waste water, treat the waste water properly.

Collection. Collect the leakage in a container. Wash down the leaked area

neutralization with plenty of water.

Secondary disaster Rope in the leakage area and prohibit the entrance of

unauthorized persons. Work at windward and evacuate the people prevention

in leeward.

#### 7. Handling and Storage

#### Handlings

- · Avoid unnecessary dust generation causing leakage, spillage, scattering, etc.
- Use appropriate protective equipment to avoid contact with eye, skin, clothing, etc.
- No eating, drinking and smoking when working
- Wash hands, face, etc. and gargle etc. well after the handling
- · Restrict the access to the handling area
- Store the product in an airtight container.
- Use of the product is restricted to research experiments
- Do not use the product for in vivo experiments

#### Storage

 Protect from light and store in a clean desiccator at room temperature (about 15 °C to 25 °C).

#### 8. Exposure Controls/Personal Protection

Administrative Level

Not established

Occupational exposure limit

•ACGIH TLV-TWA : Not established

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•Japan Society for Occupational : Not established

Health recommended reference

value

•OSHA PEL TWA : Not established

Facility engineering control

Ventilation, exhaust : If generating dust/particle, seal the source of release and

install local exhaust ventilation equipment.

Install eye wash facility and emergency safety shower and

indicate their location with signage conspicuously.

Safety control, gas

detection

Storage precaution : Protect from light and store in a clean place at room

temperature (about 15 °C to 25 °C)

Protective equipment

Respiratory tract : Dust protective mask

protection

Hands : Protective gloves

Eyes : Protective eyeglasses (safety goggles if needed)

Skin and body : Long-sleeved protective clothing

# 9. Physical and Chemical Properties

Appearance, etc.
Color
Odor
No data
pH
No data

• Melting point : 283 °C (decomposition point)

Boiling point
Flashing point
Explosive range
Vapor pressure
Relative vapor
No data
No data
No data

density(Air=1)

Specific gravity or bulk
 No data

specific gravity

• Solubility : In 1 L water, 19.8 g (0 °C), 29.6g (25 °C) dissolved. Very

low solubility in ethanol, methanol

• *n*-Octanol/water partition

coefficient (Log Po/w)

No data

Auto-ignition temperature : No data

# 10. Stability and Reactivity

**♦**Stability

·Stable under normal condition

**♦**Reactivity

May react in contact with strong oxidizer

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- ♦ Condition to avoid
  - ·Sunlight, heat
- ♦ Hazardous decomposition products
  - ·Carbon monoxide, nitrogen oxide

### 11. Toxicological Information

Acute toxicity Intraperitoneal rat LD50: 5287 mg/kg (RTECS)

Intraperitoneal mouse LD50: >1322 mg/kg (RTECS)

### 12. Ecological Information

\*DL-form (CAS No. 150-30-1) described

Degradability, concentration

Degradability: 96 % by BOD (METI Existing Chemical Substances Safety Review)

Bioaccumulation

·No data available

**Ecotoxicity** 

·No data available

# 13. Disposal Considerations

- •Disposal shall be in compliance with Laws and Regulations concerned, and ordinances of the local authorities
- Disposal of an empty container shall be after removing/decontaminating the content completely.

### 14. Transport Information

UN number : Not applicable UN : Not applicable

classification

Name : -

Marine : Not applicable

pollutant

Precautions : Transfer with care avoiding direct sunlight, leakage or spill due to fall,

keep away from sources of ignition.

#### 15. Regulatory Information

No applicable laws and regulations

This SDS is originally prepared for the use of the material in Japan, thus the stated laws and regulations are stipulated and carried out in Japan. The use of the material in other countries should be referred to and by application of the relevant laws and regulations of the country in which the material will be used.

#### 16.Other Information

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#### Other

The information in this document is not intended to be exhaustive and is based on currently available information and data. The measures given in this document are applicable only to normal handling conditions. When handling this reference material under special conditions etc., it is recommended to take safety measures appropriate to each specific application and context of use. This document is intended to provide information and not intended to guarantee anything in handling this reference material.

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