

## Safety Data Sheet (SDS)

### 1. PRODUCT AND COMPANY IDENTIFICATION

**Catalog Code Number:** 24013-v  
**Product Name:** 1-Deoxyfructosyl-Val  
**Supplier's Name:** Peptide Institute, Inc.  
**Address:** 7-2-9 Saito-Asagi, Ibaraki-Shi, Osaka 567-0085, Japan  
**Phone Number:** 81-72-643-4411  
**Fax Number:** 81-72-643-4422  
**Creation Date:** November 5, 2018  
**Revised:** April 19, 2019 (ver.2)

### 2. HAZARDS IDENTIFICATION

**Classification of the substance or mixture**  
**GHS classification:** Not a hazardous substance  
**Other hazards:** No data available

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Single Substance or Mixture:** Single Substance  
**Common Chemical Name:** *N*-(1-Deoxy-D-fructos-1-yl)-L-valine  
**Molecular Formula:** C<sub>11</sub>H<sub>21</sub>NO<sub>7</sub> (M.W. 279.29)  
**Product Description:** Amadori Compound / *N*-Terminal Amino Acid of HbA<sub>1c</sub> β-Chain  
**CAS Registry Number:** 10003-64-2  
**EINECS No.:** -  
**UN No. & Hazard Class:** This material is not classified as hazardous goods.

### 4. FIRST AID MEASURES

**Inhalation:** If inhaled, remove person to fresh air and keep comfortable for breathing. Wash your mouth and nasal cavity thoroughly with clean water and get medical attention.  
**Skin contact:** In case of skin contact, wash with plenty of water. Call a doctor, if you feel unwell.  
**Eye contact:** In case of contact with eyes, wash with plenty of water. Call a doctor, if you feel unwell.  
**Ingestion:** If swallowed, rinse mouth. Call a doctor, if you feel unwell.

### 5. FIRE FIGHTING MEASURES

**Extinguishing media:** Water spray, carbon dioxide, dry chemical powder, or appropriate form.  
**Special extinguishing method:** Complies with fire extinguishing method in normal fire.  
**Specific hazards arising from the chemical product:**  
Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**  
Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves.  
**Environmental precautions:**  
To be careful not discharged to the environment without being properly handled waste water contaminated.  
**Methods and materials for contaminant and methods and materials for cleaning up:**  
Sweep up, place in a bag and hold for waste disposal. Avoid raising dust.

### 7. HANDLING AND STORAGE

**Handling:** Avoid inhalation. Avoid contact with eyes, skin and clothing.

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**Storage:** Keep container tightly closed. Store in a cool dry place. Recommended Storage -20 °C.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**Engineering controls:** No data available

**Exposure limits:** No data available

**Personal protective equipment:**

Wear appropriate respirator, chemical-resistant gloves, safety goggles, other protective clothing.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance and Odor:** White amorphous powder

**Reactivity in Water:** No reactivity

**Solubility:** Soluble in H<sub>2</sub>O

## 10. STABILITY AND REACTIVITY

**Stability:** No data available

**Reactivity:** No data available

## 11. TOXICOLOGICAL INFORMATION

**Acute toxicity:** No data available

**Skin irritation/corrosion:** No data available

**Serious eye damage/ irritation:** No data available

**Respiratory or skin sensitization:** No data available

**Reproductive 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

**Ecotoxicity:** No data available

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

## 13. DISPOSAL CONSIDERATIONS

Observe all federal, state and local environmental regulations.

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

## 14. TRANSPORT INFORMATION

**UN number and UN classification:** This material is not classified as hazardous goods.

## 15. REGULATORY INFORMATION

Not applicable.

Caution: The chemical, physical and toxicological properties of this product have not been thoroughly investigated. Exercise due care.

## 16. OTHER INFORMATION

**Disclaimer:** NOT FOR USE IN HUMANS. For R&D use only. Not for drug, household or other uses.

**Reference:**

1. JCIA: Japan Chemical Industry Association GHS support Guidelines (June, 2012)
2. JIS Z7253:2012 Hazard communication of chemicals based on GHS-Labeling and Safety Data Sheet (SDS)
3. NITE: National Institute of Technology and Evaluation (JAPAN) web site

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