



# SAFETY DATA SHEET

According to JIS Z 7253:2019 Revision date 31-Jan-2023 Revision Number 8.02

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

ß-Carotene Standard **Product Name Product Code** 032-17991

Manufacturer FUJIFILM Wako Pure Chemical Corporation

> 1-2 Doshomachi 3-Chome Chuo-ku, Osaka 540-8605, Japan

Phone: +81-6-6203-3741 Fax: +81-6-6203-5964

**Supplier** FUJIFILM Wako Pure Chemical Corporation

1-2 Doshomachi 3-Chome, Chuo-ku, Osaka 540-8605, Japan

Phone: +81-6-6203-3741 Fax: +81-6-6203-2029

**Emergency telephone number** Recommended uses and

+81-6-6203-3741 / +81-3-3270-8571 For research use only

restrictions on use

## **Section 2: HAZARDS IDENTIFICATION**

#### **GHS** classification

### Classification of the substance or mixture

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

**Pictograms** 

None Signal word

## **Hazard statements**

Not a hazardous substance or mixture according to the Globally Harmonized System (GHS)

### **Precautionary statements-(Prevention)**

· Not applicable

### Precautionary statements-(Response)

Not applicable

### Precautionary statements-(Storage)

Not applicable

### Precautionary statements-(Disposal)

Not applicable

**Others** 

Other hazards Not available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

C40H56 **Formula** 

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
beta-Carotene	95.0	536.87	(8)-492,(8)-496,(9)-	(8)-492,(8)-496,(9)-	7235-40-7
			302	302	

Note on ISHL No.: \* in the table means announced chemical substances.

Impurities and/or Additives: Not applicable

### **Section 4: FIRST AID MEASURES**

#### Inhalation

Remove to fresh air. If symptoms persist, call a physician.

#### Skin contact

Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.

#### Eve contact

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediate medical attention is required.

#### Ingestion

Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or poison control center immediately. Do not induce vomiting without medical advice.

#### **Protection of first-aiders**

Use personal protective equipment as required.

## **Section 5: FIRE FIGHTING MEASURES**

#### Suitable extinguishing media

Water spray (fog), Carbon dioxide (CO2), Foam, Extinguishing powder, Sand

#### Unsuitable extinguishing media

No information available

#### Specific hazards arising from the chemical product

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

### Special extinguishing method

No information available

### Special protective actions for

## fire-fighters

Use personal protective equipment as required. Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

## **Section 6: ACCIDENTAL RELEASE MEASURES**

### Personal precautions, protective equipment and emergency procedures

For indoor, provide adequate ventilation process until the end of working. Deny unnecessary entry other than the people involved by, for example, using a rope. While working, wear appropriate protective equipments to avoid adhering it on skin, or inhaling the gas. Work from windward, and retract the people downwind.

### **Environmental precautions**

To be careful not discharged to the environment without being properly handled waste water contaminated.

### Methods and materials for contaminent and methods and materials for cleaning up

Sweep up and gather scattered particles, and collect it in an empty airtight container.

### Recoverly, neutralization

No information available

## Secondary disaster prevention measures

Clean contaminated objects and areas thoroughly observing environmental regulations.

### **Section 7: HANDLING AND STORAGE**

### **Handling**

#### **Technical measures**

Avoid contact with strong oxidizing agents. Use with local exhaust ventilation.

#### **Precautions**

Do not rough handling containers, such as upsetting, falling, giving a shock, and dragging Prevent leakage, overflow, and scattering. Not to generate steam and dust in vain. Seal the container after use. After handling, wash hands and face, and

then gargle In places other than those specified, should not be smoking or eating and drinking Should not be brought contaminated protective equipment and gloves to rest stops Deny unnecessary entry of non-emergency personnel to the handling area

## Safety handling precautions

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

Storage

Safe storage conditions

Storage conditions Container protected from light, and store tightly closed in freezer (-20°C). Packed with an

inert gas.

Safe packaging material Glass

Incompatible substances Strong oxidizing agents

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### **Engineering controls**

In case of indoor workplace, seal the source or use a local exhaust system. Provide the safety shower facility, and handand eye-wash facility. And display their position clearly.

Exposure limits This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Personal protective equipment

Respiratory protection Dust mask Hand protection Protection gloves

**Eye protection** protective eyeglasses or chemical safety goggles **Skin and body** protection Long-sleeved work clothes, protective boots

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

## **Section 9: PHYSICAL AND CHEMICAL PROPERTIES**

**Form** 

**Color** dark purple - dark purplish brown

Appearancecrystalline powderOdorno data available

Melting point/freezing point 183 °C

Boiling point, initial boiling point and boiling rangeno data availableFlammabilityno data availableEvaporation rate:no data availableFlammability (solid, gas):no data available

Upper/lower flammability or

explosive limits

no data available Upper: no data available Lower: Flash point no data available no data available Auto-ignition temperature: no data available **Decomposition temperature:** no data available pН Viscosity (coefficient of viscosity) no data available **Dynamic viscosity** no data available

Solubilities chloroform: soluble. Ethanol: very slightly soluble. water:

practically insoluble, or insoluble.

n-Octanol/water partition coefficient:(log Pow)no data availableVapour pressureno data availableSpecific Gravity / Relative densityno data availableVapour densityno data availableParticle characteristicsno data available

## **Section 10: STABILITY AND REACTIVITY**

## Stability

**Reactivity** no data available

Chemical stability May be altered by light. Is oxidized with oxygen in the air.

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight, Air

Incompatible materials

Strong oxidizing agents

Hazardous decomposition products

Carbon monooxide (CO), Carbon dioxide (CO2)

## **Section 11: TOXICOLOGICAL INFORMATION**

**Acute toxicity** 

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
beta-Carotene	> 5000 mg/kg ( Rat )	N/A	N/A

Skin irritation/corrosionno data availableSerious eye damage/ irritationno data availableRespiratory or skin sensitizationno data availableReproductive cell mutagenicityno data availableCarcinogenicityno data available

Reproductive toxicityno data availableSTOT-single exposureno data availableSTOT-repeated exposureno data availableAspiration hazardno data available

## **Section 12: ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Chemical Name	Algae/aquatic plants	Fish	Crustacea
beta-Carotene	N/A	LC50: Fishes > 10000mg/L	N/A
		96h	

Other data no data available

Persistence and degradability
Bioaccumulative potential
Mobility in soil
Hazard to the ozone layer

No information available
No information available
No information available

## **Section 13: DISPOSAL CONSIDERATIONS**

#### Waste from residues

Disposal should be in accordance with applicable regional, national and local laws and regulations.

### Contaminated container and contaminated packaging

Disposal should be in accordance with applicable regional, national and local laws and regulations.

## **Section 14: TRANSPORT INFORMATION**

ADR/RID Not regulated

UN number -

Proper shipping name: UN classfication Subsidiary hazard class

Packing group Marine pollutant

Not applicable

IMDG Not regulated

UN number

Proper shipping name: UN classfication Subsidiary hazard class

Packing group

Marine pollutant (Sea) Not applicable

Transport in bulk according to No information available

Annex II of MARPOL 73/78 and

the IBC Code

IATA Not regulated

UN number

Proper shipping name: UN classfication Subsidiary hazard class

Packing group

**Environmentally Hazardous** 

Not applicable

**Substance** 

## **Section 15: REGULATORY INFORMATION**

**International Inventories** 

EINECS/ELINCS Listed
TSCA Listed

Japanese regulations

Fire Service Act Not applicable Poisonous and Deleterious Not applicable

**Substances Control Law** 

Industrial Safety and Health Act Not applicable Regulations for the carriage Not applicable

and storage of dangerous

goods in ship

Civil Aeronautics Law Not applicable Pollutant Release and Transfer Not applicable

Register Law (~2023.3.31)

Pollutant Release and Transfer

Not applicable

Register Law (2023/4/1~)

Export Trade Control Order

Not applicable

## **Section 16: OTHER INFORMATION**

Key literature references and sources for data etc.

NITE: National Institute of Technology and Evaluation (JAPAN)

http://www.safe.nite.go.jp/japan/db.html IATA dangerous Goods Regulations

RTECS:Registry of Toxic Effects of Chemical Substances Japan Industrial Safety and Health Association GHS Model SDS

 $\label{eq:continuous} \mbox{Dictionary of Synthetic Oraganic Chemistry , SSOCJ, Koudansha Scientific Co.Ltd.}$ 

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

etc

#### **Disclaimer**

This SDS is according to JIS Z 7253: 2019. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe

handling, and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GHS Classification is according to JIS Z7252(2019). \*JIS: Japanese Industrial Standards

**End of Safety Data Sheet**