Date of issue for the 1st edition: 05/Aug/2022

### Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name: Benzoic Acid

Reference number(SDS):13202jis\_E-1

Product type:

Quasi-drug raw materials

\*This product conform to JSQI (Japanese Standards of Quasi-drug Ingredients).

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

Relevant identified uses of the product: Fragrance, pH adjusters, Preservative

Uses advised against: Do not use for other purposes.

Details of the supplier of the safety data sheet

Manufacturer/Supplier: JUNSEI CHEMICAL CO., LTD.

Address: 1-6, Ohmano-cho, Koshigaya-shi, Saitama 343-0844, Japan

Division: Quality Assurance Department Telephone number: +81-48-986-6161

FAX: +81-48-989-2787

e-mail address: shiyaku-t@junsei.co.jp

#### 2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

### **HEALTH HAZARDS**

Serious eye damage/eye irritation: Category 1

Reproductive toxicity: Category 2

Specific target organ toxicity - repeated exposure: Category 2(upper respiratory tract)

# **ENVIRONMENT HAZARDS**

Hazardous to the aquatic environment (Acute): Category 3

(Note) GHS classification without description: Not classified/Classification not possible

## Label elements





# Signal word: Danger HAZARD STATEMENT

H318-Causes serious eye damage

H361-Suspected of damaging fertility or the unborn child

H373-May cause damage to organs through prolonged or repeated exposure

H402-Harmful to aquatic life

# PRECAUTIONARY STATEMENT

#### Prevention

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Avoid release to the environment.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wear eye protection/face protection.

Use personal protective equipment as required.



#### Response

Get medical advice/attention if you feel unwell.

IF exposed or concerned: Get medical advice/attention.

Immediately call a POISON CENTER/doctor/physician.

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

#### Storage

Store locked up.

Disposal

Dispose of contents/container in accordance with local/national regulation.

#### 3. Composition/information on ingredients

Mixture/Substance selection:

Substance

Ingredient name:Benzoic acid

Content (%):99.3 <

Chemical formula:C7H6O2

Chemicals No, Japan:3-1397

CAS No.:65-85-0

MW:122.12

ECNO:200-618-2

#### 4. First-aid measures

Descriptions of first-aid measures

General measures

Get medical advice/attention if you feel unwell.

Immediately call a POISON CENTER/doctor/physician.

### IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER/doctor/physician if you feel unwell.

#### IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water or shower.

If skin irritation or rash occurs: Get medical advice/attention.

#### IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

# IF SWALLOWED

Rinse mouth. Induce vomiting (ONLY IN CONSCIOUS PERSONS!).

Call a POISON CENTER/doctor/physician if you feel unwell.

Most important symptoms and effects, both acute and delayed

(Symptoms when inhalation or ingestion)

Cough. Sore throat. Abdominal pain. Nausea. Vomiting.

(Symptoms when skin and/or eye contact)

Conjunctival redness of the eyes. Pain of the eyes. Redness of the skin. Burning sensation of the skin. Itching of the skin.

# 5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

In case of fire, use water mist, foam, dry powder, CO2 to extinguish.



Unsuitable extinguishing media

Unsuitable extinguishing media data is not available.

Specific hazards arising from the substance or mixture

Containers may explode when heated.

Fire may produce irritating, corrosive and/or toxic gases.

Advice for firefighters

Specific fire-fighting measures

Evacuate non-essential personnel to safe area.

Cool container with water spray.

Special protective equipment and precautions for fire-fighters

Wear fire resistant or flame retardant clothing.

Wear protective gloves/protective clothing/eye protection/face protection.

Firefighters should wear self-contained breathing apparatus with full face peace operated positive pressure mode.

#### 6 Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Ventilate area until material pick up is complete.

Wear proper protective equipment.

Environmental precautions

Avoid release to headsprings, rivers, lakes, ocean and groundwater.

Methods and materials for containment and cleaning up

Sweep up, place in a bag and hold for waste disposal.

If appropriate, moisten first to prevent dusting.

Preventive measures for secondary accident

Collect spillage.

#### 7. Handling and storage

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

Do not breathe dust/fume/gas/mist/vapors/spray.

(Protective measures against fire and explosion)

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

(Exhaust/ventilator)

Exhaust/ventilator should be available.

(Safety treatments)

Avoid contact with skin.

Avoid contact with eyes.

## Safety Measures

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Wear protective gloves/protective clothing/eye protection/face protection.

Wear eye protection/face protection.

Use personal protective equipment as required.

When using do not eat, drink or smoke.

Any incompatibilities

Strong bases, Oxidizing agents should not be mixed with the chemicals.

#### Storage

Conditions for safe storage

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.



Store in accordance with local/national regulation.

Store locked up.

Container and packaging materials for safe handling data is not available.

Specific end use(s)

See information in Section 7.1 and 7.2 for handling and storage recommendations. See Section 8 for exposure controls and personal protection recommendations.

#### 8. Exposure controls/personal protection

Control parameters

Control value in MHLW is not available.

Adopted value

ACGIH(2021) TWA: 0.5 mg/m3(IFV) (Eye irr, URT irr, LRT irr; lung dam)

Notation ··· Skin

Exposure controls

Appropriate engineering controls

Do not use in areas without adequate ventilation.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Respiratory protection

Wear respiratory protection.

Hand protection

Wear protective gloves. Recommended material(s): neoprene, nitrile, butyl rubber, viton, PVC

Consult with your glove and/or personnel equipment manufacturer for selection of appropriate compatible materials.

Eye protection

Wear chemical safety goggle.

Wear eye/face protection.

Skin and body protection

Wear impervious clothing and boots in case of repeated or prolonged treatment.

### 9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical state: Crystalline powder

Color: White

Odor: Noneor slight characteristic odor Odor threshold data is not available.

Melting point/Freezing point: 121~124°C (The substance begins to sublime at 100°C)

Boiling point or initial boiling point: 249°C

Boiling range data is not available.

Flammability (gases, liquids and solids) data is not available.

Lower and upper explosion limit/flammability limit data is not available.

Flash point: (c.c.)121°C

Auto-ignition temperature: 570°C

Decomposition temperature data is not available.

Self-Accelerating Decomposition Temperature/SADT data is not available.

pH: 2.8 (Saturated aqueous solution,  $25^{\circ}$ C)

Dynamic viscosity data is not available.

Kinematic viscosity data is not available.

Solubility:

Solubility in water: 0.29 g/100 ml (20°C)

Solubility in solvent: Freely soluble in ethanol (99.5) and diethyl ether.



n-Octanol/water partition coefficient: log Pow1.88

Vapor pressure: 0.1 Pa (25°C) Vapor density data is not available. Density and/or relative density: 1.3

Relative vapor density (Air=1): 4.2

Relative density of the Vapor/air - mixture at 20°C (Air = 1): 1

Particle characteristics data is not available.

Other information

Critical temperature data is not available.

Evaporation rate data is not available.

VOC data is not available.

### 10. Stability and Reactivity

Reactivity

Reactivity data is not available.

Chemical stability

Stable under normal storage/handling conditions.

Possibility of hazardous reactions

May form explosive dust-air mixtures.

Aqueous solution of this product is a weak acid

Reacts with oxidants.

Conditions to avoid

Contact with incompatible materials.

Open flames. Heat.

Incompatible materials

Strong bases, Oxidizing agents

Hazardous decomposition products

Carbon oxides

### 11. Toxicological Information

Information on toxicological effects

Acute toxicity

Acute toxicity (Oral)

[GHS Cat. Japan, base data]

rat LD50=2530~3040 mg/kg (SIDS, 2004 et al.)

Acute toxicity (Dermal)

[GHS Cat. Japan, base data]

rabbit LD50  $\geq$ 2000 mg/kg (SIDS, 2004 et al.)

Acute toxicity (Inhalation)

[GHS Cat. Japan, base data]

mist : rat LC50 >12.2mg/L/4hr (SIDS, 2004)

Irritant properties

Skin corrosion/irritation data is not available.

Serious eye damage/irritation

[GHS Cat. Japan, base data]

severe, corrosive (SIDS, 2004)

Allergenic and sensitizing effects data is not available.

Germ cell mutagenicity

[GHS Cat. Japan, base data]

no in vivo data

Reverse-mutation assay in bacteria (Ames test): Negative (SIDS, 2004 et al.)

Chromosome aberration test :Negative (SIDS, 2004 et al.)



Carcinogenicity

[ACGIH]

A5(2021): Not Suspected as a Human Carcinogen

[EPA]

Group D; Not classifiable as to human carcinogenicity(1986)

Reproductive toxicity

[GHS Cat. Japan, base data]

cat. 2; rat/hamster: HSDB, Access on Sep. 2013

STOT

STOT-single exposure data is not available.

STOT-repeated exposure

[cat.2]

[GHS Cat. Japan, base data]

upper respiratory tract (HSDB, Access on Oct. 2013)

Aspiration hazard data is not available.

# 12. Ecological Information

**Ecotoxicity** 

Aquatic toxicity

H402-Harmful to aquatic life

Hazardous to the aquatic environment (Acute)

[GHS Cat. Japan, base data]

Fish (bluegill) LC50=44.6mg/L/96hr (SIDS, 2004)

Water solubility

 $0.29 \text{ g}/100 \text{ ml } (20^{\circ}\text{C}) (ICSC, 1999)$ 

Persistence and degradability

Degrade rapidly [BOD\_Degradation: 85% (METI existing chemical safety inspections, 1979)]

Bioaccumulative potential

log Pow=1.87 (ICSC, 1999)

Mobility in soil

Mobility in soil data is not available.

Other adverse effects

Ozone depleting chemical data is not available.

#### 13. Disposal considerations

Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging

Waste treatment methods

Avoid release to the environment.

Dispose of contents/container in accordance with local/national regulation.

# 14. Transport Information

UN No., UN CLASS

UN No. or ID No.: Not applicable

UN Proper Shipping Name: Not applicable

Class or division (Transport hazard class): Not applicable

Packing group: Not applicable

Not applicable to IMDG Code

Not applicable to IATA Dangerous Goods Regulations



Environmental hazards

MARPOL Annex III - Prevention of pollution by harmful substances

Marine pollutants (yes/no): no

Maritime transport in bulk according to IMO instruments

Not applicable to Maritime transport in bulk according to IMO instruments

### 15. Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Toxic Substances Control Act (TSCA) Inventory

Chemicals listed in TSCA Inventory

65-85-0

All components are listed or exempted.

### Other regulatory information

We are not able to check up the regulatory information with regard to the substances in your country or region, therefore, we request this matter would be filled by your responsibility.

Regulatory information with regard to this substance in your country or in your region should be examined by your own responsibility.

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

Regulatory information in this section are limited to intentional ingredient(s), but does

not contain information on non-intentional ingredients or impurities which are not informed by supplier(s).

#### Chemical safety assessment

Advice on safe handling for this product can be found in sections 7 and 8 of this SDS.

#### 16. Other information

GHS classification and labelling

H318-Eye Dam. 1: H318 Causes serious eye damage

H361-Repr. 2: H361 Suspected of damaging fertility or the unborn child

H373-STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure

H402-Aquatic Acute 3: H402 Harmful to aquatic life

#### Reference Book

Globally Harmonized System of classification and labelling of chemicals, UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 21th edit., 2019 UN

IMDG Code, 2018 Edition (Incorporating Amendment 39-18)

IATA Dangerous Goods Regulations (62nd Edition) 2021

2020 EMERGENCY RESPONSE GUIDEBOOK (US DOT)

2022 TLVs and BEIs. (ACGIH)

JIS Z 7252 : 2019 JIS Z 7253 : 2019

2021 Recommendation on TLVs (JSOH)

Supplier's data/information

Chemicals safety data management system "GHS Assistant" Version 4.18 (https://www.asahi-ghs.com/)

NITE Chemical Risk Information Platform "NITE-CHRIP"

(https://www.nite.go.jp/en/chem/chrip/chrip\_search/systemTop)

GHS Classification Guidance for Enterprises 2019 Revised Edition (Ver. 2.0) (Mar. 2020, METI)

# Definitions and Abbreviations

SDS (Safety Data Sheet)

LD50 (Lethal Dose, 50%)

LC50 (Lethal Concentration, 50%)

IARC (International Agency for Research on Cancer)

ACGIH (American Conference of Governmental Industrial Hygienists)

EPA (US Environmental Protection Agency)

NTP (US National Toxicology Program)



JSOH (Japan Society for Occupational Health)

EU (European Union)

EC50 (Effective Concentration, 50%)

NOEC (No Observed Effect Concentration)

BOD (Biochemical Oxygen Demand)

COD (Chemical Oxygen Demand)

BCF (Bioconcentration Factor)

anh (anhydride)

#### General Disclaimer

This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety.

The data given here is based on current knowledge and experience. The purpose of this Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

The GHS classification data given here is based on current Japan official data (NITE published in 2020).