



SAFETY DATA SHEET

According to JIS Z 7253:2019

Revision date 15-Feb-2024

Revision Number 2.06

Section 1: PRODUCT AND COMPANY IDENTIFICATION

Product Name	p-t-Butylbenzoic Acid
Product Code	022-05062

Supplier FUJIFILM Wako Pure Chemical Corporation

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Recommended uses For research use only

Restrictions on useSeek expert judgment when using for purposes other than those recommended.

Section 2: HAZARDS IDENTIFICATION

GHS classification

Classification of the substance or mixture

Acute toxicity - OralCategory 4Reproductive ToxicityCategory 1BSpecific target organ toxicity (single exposure)Category 1

Category 1 nervous system, testes

Specific target organ toxicity (repeated exposure) Category 1

Category 1 nervous system, kidneys, Male reproductive organ

Acute aquatic toxicity Category 2

Pictograms



Signal word

Danger

Hazard statements

H302 - Harmful if swallowed

H360 - May damage fertility or the unborn child

H401 - Toxic to aquatic life

H370 - Causes damage to the following organs: nervous system, testes

H372 - Causes damage to the following organs through prolonged or repeated exposure: nervous system, kidneys, Male reproductive organ

Precautionary statements-(Prevention)

- Obtain special instructions before use
- Do not handle until all safety precautions have been read and understood
- · Use personal protective equipment as required
- Do not breathe dust/fume/gas/mist/vapors/spray
- Wash face, hands and any exposed skin thoroughly after handling
- Do not eat, drink or smoke when using this product
- Avoid release to the environment

Precautionary statements-(Response)

- IF exposed: Call a POISON CENTER or doctor/physician
- IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell
- · Rinse mouth

Precautionary statements-(Storage)

Store locked up

Precautionary statements-(Disposal)

• Dispose of contents/container to an approved waste disposal plant

Others

Other hazards Not available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Single Substance or Mixture Substance

Formula (CH3)3CC6H4COOH

Chemical Name	Weight-%	Molecular weight	ENCS	ISHL No.	CAS RN
p-t-Butylbenzoic Acid	97.0	178.23	(3)-1338	*	98-73-7

Note on ISHL No.:

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.

Eye 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

^{*} in the table means announced chemical substances.

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 Store away from sunlight in well-ventilated place at room temperature (preferably cool).

Keep container tightly closed.

Safe packaging material Polyethylene

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.

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Chemical Name	JSOH (Japan)	ISHL (Japan)	ACGIH		
p-t-Butylbenzoic Acid 98-73-7	N/A	N/A	TWA: 0.1 mg/m³ inhalable fraction and vapor		
			Skin		

Personal protective equipment

Respiratory protection Dust mask (JIS T 8151)

Hand protection chemical protective gloves (JIS T 8116)

Eye protection protective eyeglasses or chemical safety goggles (JIS T 8147)

Skin and body protection Long-sleeved work clothes

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

If this product is classified as "Chemical Substances Hazardous to Skin, etc.", use appropriate protective equipment to them.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Form

ColorWhite - slightly brownAppearancecrystals - crystalline powder

Odor no data available Melting point/freezing point 163 - 168 °C

Boiling point, initial boiling point and boiling range
Flammability
Evaporation rate:
no data available

Upper/lower flammability or explosive limits

Upper:no data availableLower:no data available

Flash point 180 °C

Auto-ignition temperature:no data availableDecomposition temperature:no data availablepHno data availableViscosity (coefficient of viscosity)no data availableDynamic viscosityno data available

Solubilities Ethanol : soluble . water : very slightly soluble.

n-Octanol/water partition coefficient:(log Pow) 3.85

Vapour 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 Stable under recommended storage conditions.

Hazardous reactions

None under normal processing

Conditions to avoid

Extremes of temperature and direct sunlight

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	
p-t-Butylbenzoic Acid	473 mg/kg (Rat)	> 2000 mg/kg (Rabbit)	> 1.9 mg/L (Rat) 4 h	

Chemical Name	Acute toxicity -oral- source	Acute toxicity -dermal- source	Acute toxicity -inhalation gas-
	information	information	source information
p-t-Butylbenzoic Acid	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

Chemical Name	Acute toxicity -inhalation vapor- source information	Acute toxicity -inhalation dust- source information	Acute toxicity -inhalation mist- source information
p-t-Butvlbenzoic Acid	Based on the NITE GHS	Based on the NITE GHS	Based on the NITE GHS
	classification results.	classification results.	classification results.

Skin irritation/corrosion

Chemical Name	Skin corrosion/irritation source information	
p-t-Butylbenzoic Acid	Based on the NITE GHS classification results.	

Serious eve damage/ irritation

Serious eye damage/ irritation	
Chemical Name	Serious eye damage/irritation source information
p-t-Butylbenzoic Acid	Based on the NITE GHS classification results.
Respiratory or skin sensitization	
Chemical Name	Respiratory or Skin sensitization source information
p-t-Butylbenzoic Acid	Based on the NITE GHS classification results.
Reproductive cell mutagenicity	·
Chemical Name	germ cell mutagencity source information
p-t-Butylbenzoic Acid	Based on the NITE GHS classification results.
Carcinogenicity	
Chemical Name	Carcinogenicity source information
p-t-Butylbenzoic Acid	Based on the NITE GHS classification results.

Reproductive toxicity	
Chemical Name	Reproductive toxicity source information
p-t-Butylbenzoic Acid	Based on the NITE GHS classification results.
STOT-single exposure	
Chemical Name	STOT -single exposure- source information
p-t-Butylbenzoic Acid	Based on the NITE GHS classification results.
STOT-repeated exposure	
Chemical Name	STOT -repeated exposure- source information
p-t-Butylbenzoic Acid	Based on the NITE GHS classification results.
Aspiration hazard	
Chemical Name	Aspiration Hazard source information
p-t-Butylbenzoic Acid	Based on the NITE GHS classification results.

Section 12: ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Algae/aquatic plants	Fish	Crustacea
p-t-Butylbenzoic Acid	N/A	LC50 : Garassius auratus	N/A
·		4 mg/L 96 h	

Other data

Chemical I	 Short-term (acute) haquatic environment	Long-term (chronic) aquatic environment	
p-t-Butylbenz	 Based on the NITE GHS results.	Based on the NITE GH results.	S classification

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 -

W01W0102-0506 JGHEEN p-t-Butylbenzoic Acid

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

Not regulated

UN number

Proper shipping name: **UN classfication** Subsidiary hazard class

Packing group

Environmentally Hazardous

Substance

Section 15: REGULATORY INFORMATION

Japanese regulations

Fire Service Act Not applicable Poisonous and Deleterious Not applicable **Substances Control Law**

Industrial Safety and Health Act Not applicable

2024~)

【2024.4.1~】Notifiable Substances (Law Art.57-2)

Not applicable

【2024.4.1~】Chemical Substances Hazardous to Skin, etc.(Regulations Article 594-2 Paragraph 1) Not applicable

Regulations for the carriage and storage of dangerous

goods in ship

Civil Aeronautics Law Not applicable Pollutant Release and Transfer Not applicable

Register Law (2023.4.1-)

Export Trade Control Order Not applicable

Industrial Safety and Health Law

Law Name	Chemical Name in Regulation	Weight %	
Notifiable Substances (Law Art.57-2)	p-tert-butylbenzoic acid	97.0	2024/4/1

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

Dictionary of Synthetic Oraganic Chemistry, SSOCJ, Koudansha Scientific Co.Ltd.

Chemical Dictionary, Kyouritsu Publishing Co., Ltd.

etc

Record of SDS revisions The following contents were revised. Regulatory information.

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 Z 7252:2019. *JIS: Japanese Industrial Standards

End of Safety Data Sheet