Safety Data Sheet

4-Nitrobenzoic Acid Melting Point Reference

Material

Version: V2.0.0.1

Report No.: BWJ4730-2016-MSDS-US

Creation Date: 2025/10/17

Revision Date: -

*Prepared according to American OSHA HCS-2024 (29 CFR 1910.1200)



1 Identification

| Product identifier

Product Name	4-Nitrobenzoic Acid Melting Point Reference Material
Cat No.	BWJ4730-2016
CAS No.	62-23-7
EC No.	200-526-2
Molecular Formula	C7H5NO4

Recommended use of the product and restrictions on use

Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

Details of the supplier of the Safety Data Sheet

Name of the company	Weiyel Inc
Address of the company	Hedian Light Industrial Park, Chengguan Town, Shangcheng County, Xinyang City, Henan Province, China
Post code	465350
Telephone number	010-58103678
Fax number	010-84840368
E-mail address	info@weiyel.com

| Emergency phone number

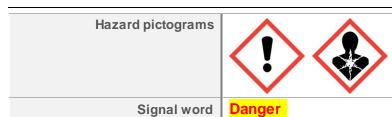
Emergency phone number	010-58103678

2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Acute Toxicity - Oral	Category 4
Serious Eye Damage/Irritation	Category 2B
Reproductive Toxicity	Category 1B
Specific target organ toxicity -	Category 2
single exposure	

| Label elements



Hazard statements

H302	Harmful if swallowed
H320	Causes eye irritation
H360	May damage fertility or the unborn child
H371	May cause damage to organs(blood system)

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| Precautionary statements

Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/fume.
P264	Wash hands and other parts of the body (if related) thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
	protection.
A D	

Response

P330	Rinse mouth.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
	lenses, if present and easy to do. Continue rinsing.

Storage

P405	Store	locked	up.
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Disposal

P501	Dispose of contents/container in accordance with local/regional/national/
	international regulations.

Other hazards

Not applicable.

| Hazard description

Physical and chemical hazards

	No information available
→ Health hazards	
Inhaled	Cough.
Ingestion	Nausea. Vomiting.
Skin Contact	Redness.
Eye	Redness.

Environmental hazards

Please refer to 12th chapter of SDS.

3 Composition/information on ingredients

Substance/mixture

C	bsta	
-511	nsia	II 1(: ←
Ou	$\circ \circ \circ$	

Component	CAS No.	EC No.	Concentration (wt, %)
4-nitrobenzoic acid	62-23-7	200-526-2	99.584

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4 First-aid measures

Description of first aid measures

General advice	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
Eye contact	Rinse with plenty of water (remove contact lenses if easily possible).
Skin contact	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Ingestion	Rinse mouth. Refer for medical attention.
Inhalation	Fresh air, rest.
Protecting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.

Most important symptoms/effects, acute and delayed

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

Indication of any immediate medical attention and special treatment needed

- 1 Treat symptomatically.
- 2 Symptoms may be delayed.

Fire-fighting measures

Extinguishing media

Suitable extinguishing media	Use extinguishing media suitable for surrounding area.
Unsuitable extinguishing media	There is no restriction on the type of extinguisher which may be used.

Specific hazards arising from the substance or mixture

- 1 Development of hazardous combustion gases or vapor possible in the event of fire.
- 2 May expansion or decompose explosively when heated or involved in fire.

Special protective equipment and precautions for fire-fighters

- As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.
- 3 Prevent fire extinguishing water from contaminating surface water or the ground water system.

6 Accidental release measures

Personal precautions, protective equipment and emergency procedures

- 1 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
- 2 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

3 Use personal protective equipment, do not breathe dust/fume.

Environmental precautions

- 1 Prevent further leakage or spillage if safe to do so.
- 2 Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up

- 1 Cut off the source of the leak as much as possible.
- 2 Keep leaks in a ventilated place.
- 3 Isolation of contaminated areas and restrictions on access.
- 4 It is recommended that emergency personnel wear dust masks.
- Collect the spill with a clean shovel and place it in a clean, dry, loosely closed container and move the container away from the leak.

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Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7 Handling and storage

Precautions for safe handling

- 1 Handling is performed in a well ventilated place.
- 2 Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.

Conditions for safe storage, including any incompatibilities

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/hot surfaces.
- 4 Store away from incompatible materials and foodstuff containers.

8 Exposure controls/personal protection

| Control parameters

Occupational exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m³	ppm	mg/m³
4-nitrobenzoic acid	Germany (AGS)	-	1	-	2
	Germany (DFG)	-	1	-	2
	Switzerland	-	3	-	3

| Engineering controls

1	Ensure adequate ventilation, especially in confined areas.
2	Ensure that eyewash stations and safety showers are close to the workstation location.
3	Use explosion-proof electrical/ventilating/lighting/equipment.
4	Set up emergency exit and necessary risk-elimination area.

| Personal protection equipment

General requirement	
Eye protection	Must wear appropriate safety goggles.
Hand protection	Must wear appropriate chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear appropriate chemical protective clothing and chemical resistant shoes.

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Physical and chemical properties and safety characteristics

Appearance (physical state, color, etc.) Odor No information available Odor threshold No information available pH 3.1 (0.42g/L) Melting point/freezing point(°C) 242 Initial boiling point and boiling Decompose before boiling

| Physical and chemical properties

range(°C)

Flash point(Closed cup, °C) 201

Evaporation rate Not applicable

Flammability No information available

Upper/lower explosive limits[%(v/v)]

Vapor pressure Upper limit : No information available ; Lower limit : 1.8

Vapor density(Air = 1) Not applicable

Relative density(Water=1) 1.61

Solubility 0.3g/L (25°C)

n-octanol/water partition 1.89 coefficient

Auto-ignition temperature(°C) 300

Decomposition temperature(°C) 350

Kinematic viscosity Not applicable

10 Stability and reactivity

| Stability and reactivity

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Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
Chemical stability	Stable under proper operation and storage conditions.
Possibility of hazardous reactions	No information available.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	No information available.
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products
products	should not be produced.

11 Toxicological information

| Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
4-nitrobenzoic acid	1960mg/kg(Rat)	No information available	No information available

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| Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
4-nitrobenzoic acid	Not Listed	Not Listed	Not Listed

Others

4-nitrobenzoic acid(Component)		
Skin corrosion/irritation	Based on available data, the classification criteria are not met	
Serious eye damage/irritation	Causes eye irritation(Category 2B)	
Skin sensitization	Based on available data, the classification criteria are not met	
Respiratory sensitization	Based on available data, the classification criteria are not met	
Reproductive toxicity	May damage fertility or the unborn child(Category 1B)	
STOT-single exposure	May cause damage to organs(blood system)(Category 2)	
STOT-repeated exposure	Based on available data, the classification criteria are not met	
Aspiration hazard	Based on available data, the classification criteria are not met	
Germ cell mutagenicity	Based on available data, the classification criteria are not met	

12 Ecological information

Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic
4-nitrobenzoic acid	No information available	No information available	ErC_{50} : \geq 82.4mg/L
			(72h)(Algae)

| Chronic aquatic toxicity

Chronic aquatic toxicity No information available

| Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
4-nitrobenzoic acid	High	High

| Bioaccumulative potential

Component	Bioaccumulative potential	Comments
4-nitrobenzoic acid	Low	Log Kow=1.89

| Mobility in soil

Component	log Koc	Remark

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4-nitrobenzoic acid	1.223						
Disposal considera	tions						
Disposal considerations							
Waste chemical		Before disposal should refer to the relevant national and local laws and					
Contaminated packagin	regulation. Recommend the use of incineration disposal.						
Contaminated packagin	- 1	Containers may still present chemical hazard when empty. Keep away from hot and ignition source of fire. Return to supplier for recycling if possible.					
Disposal recommendation							
Transport information	on						
Label and Mark							
Transporting Labe	Not applicable						
IMDG-CODE							
IMDG-COD	NOT REGULATED FOR TRANSPOR	RT OF DANGEROUS GOODS					
IATA-DGR							
IATA-DG	NOT REGULATED FOR TRANSPOR	RT OF DANGEROUS GOODS					
UN-ADR							
UN-AD	NOT REGULATED FOR TRANSPOR	RT OF DANGEROUS GOODS					
Transport in bulk according	g to IMO instruments						
◆Transport in bulk according	g to Annex II of MARPOL and the IB	C code					
	Not Available						
◆Transport in bulk in accord	dance with MARPOL Annex V and th	e IMSBC Code					
	Not Available						
◆Transport in bulk in accord	dance with the IGC Code						
	Not Available						
Others							
Precautions for transpo	of fire equipment and emergency eq transport, should be preceded by ch	ed with the appropriate variety and quantity uipment leakage during transport. Before ecking whether container integrity, sealing. It and marked in accordance with relevant					

15 Regulatory information

| International chemical inventory

Component	Α	В	С	D	Е	F	G	Н	I	J	K	L	M
4-nitrobenzoic acid	√	√	√	√	V	V	V	V		V	√	V	√

- (A) China Inventory of Existing Chemical Substances(IECSC)
- (B) European Inventory of Existing Commercial Chemical Substances(EC inventory)
- [C] United States Toxic Substances Control Act Inventory(TSCA)
- [D] Canadian Domestic Substances List(DSL)

- [E] New Zealand Inventory of Chemicals(NZloC)
- [F] Philippines Inventory of Chemicals and Chemical Substances(PICCS)
- **[G]** Korea Existing Chemicals Inventory(KECL)
- [H] Australian. Inventory of Industrial Chemical (AIICS)
- [1] Japan Inventory of Existing & New Chemical Substances(ENCS)
- [J] Thailand Existing Chemicals Inventory(TECI)
- [K] Mexico National Inventory of Chemical Substances (INSQ)
- [L] Russia Inventory of Existing Substances (DRAFT)
- [M] Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

List of Chemical Substances under International Conventions

Component	Α	В	С
4-nitrobenzoic acid	×	×	×

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- [A] The Montreal Protocol on Substances that Deplete the Ozone Layer
- [B] Stockholm Convention on Persistent Organic Pollutants (POPs)
- [C] Rotterdam Convention on the prior informed consent procedure for certain hazardous chemicals and pesticides in international trade

US chemical inventory

Component	Α	В	С	D	E	F	G	Н
4-nitrobenzoic acid	×	×	×	×	×	×	×	×

- [A] US Clean Air Act (CAA)- Section 112, Hazardous Air Pollutants
- [B] US SARA 302- Extremely Hazardous Substance List
- [C] US CERCLA- Hazardous Substances List
- [D] US Massachusetts Right-to-Know Substance List
- [E] US New Jersey Right to Know Hazardous Substance List
- [F] US Pennsylvania Right to Know Hazardous Substance List
- [G] US New York City Right-to-Know Hazardous Substance List
- [H] US California Proposition 65 List

Note:

- " $\sqrt{}$ " Indicates that the substance included in the regulations.
- "x" No data or not included in the regulations.

Other information

Information on revision

Creation Date	2025/10/17
Revision Date	-
Reason for revision	-

Reference

- [1] IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.
- [2] IARC, website: http://www.iarc.fr/.
- [3] OECD: The Global Portal to Information on Chemical Substances, website: https://www.echemportal.org/echemportal/.
- [4] CAMEO Chemicals, website: http://cameochemicals.noaa.gov/search/simple.
- [5] NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.
- [6] EPA: Integrated Risk Information System, website: http://cfpub.epa.gov/iris/.
- [7] U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.
- [8] Germany GESTIS-database on hazard substance, website: http://gestis-en.itrust.de/.

Abbreviations and acronyms

CAS Chemical Abstracts Service UN The United Nations

PC-STEL Short term exposure limit OECD Organization for Economic Co-operation and Development

PC-TWA	Time Weighted Average	IMDG- CODE	International Maritime Dangerous Goods CODE
MAC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
DNEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
PNEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
NOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
LC ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD ₅₀	Lethal Dose 50%	NTP	National Toxicology Program
EC ₅₀	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC_X	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
Pow	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor	HCS	Hazard Communication Standard

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Disclaimer

This Safety Data Sheet (SDS) was prepared according to OSHA HCS-2024. The data included was derived from international authoritative database and provided by the enterprise. Other information was based on the present state of our knowledge. We try to ensure the correctness of all information. However, due to the diversity of information sources and the limitations of our knowledge, this document is only for user's reference. Users should make their independent judgment of suitability of this information for their particular purposes. We do not assume responsibility for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product.