Safety Data Sheet

Acetylenedicarboxylic Acid

Version: V2.0.0.1

Report No.: BWJ4047-2016-MSDS-US

Creation Date: 2025/09/11 Revision Date: 2025/09/18



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

1	Identification
	Tuerillicalion

| Product identifier

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Product Name	Acetylenedicarboxylic Acid
Cat No.	BWJ4047-2016
CAS No.	142-45-0
EC No.	205-536-0
Molecular Formula	C4H2O4

Recommended use of the product and restrictions on use

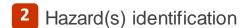
Relevant identified uses	Please consult manufacturer.
Uses advised against	Please consult manufacturer.

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



Hazard classification according to 29 CFR 1910.1200

Acute Toxicity - Oral	Category 3
Skin Corrosion/Irritation	Category 2
Serious eye damage/irritation	Category 1
Specific target organ toxicity -	Category 3
single exposure; respiratory	
tract irritation	
Specific target organ toxicity -	Category 2
repeated exposure	

Label elements



Hazard statements

H301	Toxic if swallowed
H315	Causes skin irritation
H318	Causes serious eye damage
H335	May cause respiratory irritation
H373	May cause damage to organs through prolonged or repeated exposure

| Precautionary statements

Prevention

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.
P271	Use only outdoors or with adequate ventilation.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing
	protection.
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Response

P321	Specific treatment (see related instructions on the label).
P330	Rinse mouth.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P362+P364	Take off contaminated clothing and wash it before reuse.
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.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
▲ Disposal	

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	Inhalation of dusts or fumes, especially for prolonged periods, may produce
	respiratory discomfort and occasionally, distress.
Ingestion	Toxic effects may result from the accidental ingestion of the product.

Skin Contact	act The product can cause skin irritation following direct contact with the skin.	
Eye The product can produce severe chemical burns to the eye following direct contact.		
 Environmental hazards 		
	Please refer to 12th chapter of SDS.	

3 Composition/information on ingredients

Substance/mixture

Substance

Component	CAS No.	EC No.	Concentration (wt, %)
Butynedioic acid	142-45-0	205-536-0	98

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 thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off with plenty of soap and water for at least 15 minutes and consult a physician if feel uncomfortable.
Ingestion	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth to mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
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.

5 Fire-fighting measures

| Extinguishing media

Suitable extinguishing media	Small fire: dry chemical, CO ₂ or water spray; Large fire: dry chemical, CO ₂ ,
	alcohol-resistant foam or water spray; Fire involving tanks, rail tank cars or
	highway tanks: Fight fire from maximum distance or use unmanned master
	stream devices or monitor nozzles. Cool containers with flooding quantities of
	water until well after fire is out. Do not get water inside containers.
Unsuitable extinguishing media	No information available.

Specific hazards arising from the substance or mixture May emit poisonous fumes on fire. Development of hazardous combustion gases or vapor possible in the event of fire. 2 3 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 Fully encapsulating, vapor protective clothing should be worn for spills and leaks with no fire. 2 Do not touch or walk through spilled material. 3 Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. 4 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges. 5 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Use personal protective equipment, do not breathe dust/fume. **Environmental precautions** 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 Isolation of contaminated areas and restrictions on access. 2 It is recommended that emergency personnel wear dust masks and wear anti-virus suits. 3 Do not touch broken containers and spills before putting on appropriate protective clothing. 4 Cover the spill with a plastic sheet to reduce scattering. 5 Cut off the source of the leak as much as possible. 6 Keep leaks in a ventilated place. 7 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. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations. 7 Handling and storage Precautions for safe handling Handling is performed in a well ventilated place.

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Conditions for safe storage, including any incompatibilities

Keep away from heat/sparks/open flames/ hot surfaces.

Wear suitable protective equipment.

Avoid contact with skin and eyes.

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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.

8 Exposure controls/personal protection

| Control parameters

◆Occupational exposure limit values

Occupational Exposure limit	No relevant regulations
values	

| 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 anti-corrosion goggles.
Hand protection	Must wear acid and alkali resistant chemical protective gloves.
Respiratory protection	Must wear appropriate personal respiratory protective equipment.
Skin and body protection	Must wear acid and alkali resistant chemical protective clothing.

Physical and chemical properties and safety characteristics

| Physical and chemical properties

Appearance (physical state,	White to off-white crystalline powder
color, etc.)	
Odor	No information available
Odor threshold	No information available
рН	No information available
Melting point/freezing point(°C)	180
Initial boiling point and boiling	No information available
range(°C)	
Flash point(Closed cup,°C)	Not applicable
Evaporation rate	Not applicable
Flammability	No information available
Upper/lower explosive	Upper limit: No information available; Lower limit: No information available
limits[%(v/v)]	
Vapor pressure	Not applicable
Vapor density(Air = 1)	>1
Relative density(Water=1)	No information available
Solubility	Partly miscible with water

Acetylenedicarboxylic Acid

n-octanol/water partition	
coefficient	
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	No information available
Kinematic viscosity	Not applicable

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10 Stability and reactivity

| Stability and reactivity

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

Acute toxicity No information available

Carcinogenicity

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

Others

Butynedioic acid(Component)						
Skin corrosion/irritation	Causes skin irritation(Category 2)					
Serious eye damage/irritation	Causes serious eye damage(Category 1)					
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	Based on available data, the classification criteria are not met					
STOT-single exposure	May cause respiratory irritation(Category 3)					
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure(Category 2)					
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

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	Acute aquatic toxicity	No information available

| Chronic aquatic toxicity

Chronic aquatic toxicity No information available

| Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)			
Butynedioic acid	Low	Low			

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| Bioaccumulative potential

Component	Bioaccumulative potential	Comments				
Butynedioic acid	Low	Log Kow=-1.4697				

Mobility in soil

Component	log Koc	Remark
Butynedioic acid	0.800	

13 Disposal considerations

| Disposal considerations

Waste chemicals	Before disposal should refer to the relevant national and local laws and
	regulation. Recommend the use of incineration disposal.
Contaminated packaging	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 recommendations	Refer to section waste chemicals and contaminated packaging.

14 Transport information

Label and Mark

Transporting Label



| IMDG-CODE

UN number	2811
UN proper shipping name	TOXIC SOLID, ORGANIC, N.O.S.
Transport hazard class	6.1
Transport subsidiary hazard	None
class	
Packing group	ш
Marine pollutant (Yes or no)	No

IATA-DGR

UN number	2811
UN proper shipping name	TOXIC SOLID, ORGANIC, N.O.S.
Transport hazard class	6.1
Transport subsidiary hazard	None

class	
Packing group	ш

UN-ADR

UN number	2811
UN proper shipping name	TOXIC SOLID, ORGANIC, N.O.S.
Transport hazard class	6.1
Transport subsidiary hazard	None
class	
Packing group	ш

Transport in bulk according to IMO instruments

◆ Transport in bulk according to Annex II of MARPOL and the IBC code

Not Available

Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Not Available

◆ Transport in bulk in accordance with the IGC Code

Not Available

Others

Precautions for transport

Transit should be anti-exposure, rain, high temperature. Strictly prohibited shipping or transportation with acids, alkalis, oxidants, food and food additives etc. Transport vehicles should be equipped with the appropriate variety and quantity of fire equipment and emergency equipment leakage during transport. Before transport, should be preceded by checking whether container integrity, sealing. The transport unit must be placarded and marked in accordance with relevant transporting requirements.

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15 Regulatory information

International chemical inventory

Component	Α	В	С	D	Е	F	G	Н	I	J	K	L	M
Butynedioic acid	√	√	√	×	√	×	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(NZIoC)
- [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

Butynedioic acid	×	×	×

- [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
Butynedioic 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.

16 Other information

Information on revision

Creation Date	2025/09/11
Revision Date	2025/09/18
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	RespiratoryProtective Equipment
ED	Endocrine disruptor	HCS	Hazard Communication Standard

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.

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