## **Safety Data Sheet**

# Carbaryl (carbaryl)

Version: V2.0.0.1

Report No.: BWJ4974-2016-MSDS-US

Creation Date: 2025/10/11

Revision Date: -



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

1 Identification

### Product identifier

Product Name	Carbaryl (carbaryl)
Cat No.	BWJ4974-2016
CAS No.	63-25-2
EC No.	200-555-0
Molecular Formula	C12H11NO2

### 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 3
Acute Toxicity - Dermal	Category 4
Acute Toxicity - Inhalation	Category 4
Carcinogenicity	Category 2

#### Label elements

**Hazard pictograms** 





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Signal word	Danger
Hazard statements	
H301	Toxic if swallowed
H312	Harmful in contact with skin
H332	Harmful if inhaled
H351	Suspected of causing cancer
ПЭЭТ	Suspected of Causing Cancer
Precautionary statements	
<ul><li>Prevention</li></ul>	
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing 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
◆ Response	protection.
·	Consider treatment (and related instructions on the label)
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.
◆ Storage	
P405	Store locked up.
◆ Disposal	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
Other because	
Other hazards	lare e e
	Not applicable.
Hazard description	
<ul> <li>Physical and chemical haza</li> </ul>	ards
J	No information available
→ Health hazards	I.
Inhaled	Nausea. Vomiting. Pupillary constriction, muscle cramp, excessive salivation.
Ingestion	Abdominal cramps. Diarrhoea. Nausea. Vomiting. Pupillary constriction, muscle
· ·	cramps, excessive salivation.
Skin Contact	Redness. Pain. (See Inhalation).
	Redness. Pain.
Eye	Treaties. 1 am.
◆ Environmental hazards	redites. Full.

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# 3 Composition/information on ingredients

### Substance/mixture

Substance

Component	CAS No.	EC No.	Concentration (wt, %)
Carbaryl	63-25-2	200-555-0	99.5

# 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	First rinse with plenty of water for several minutes (remove contact lenses if easily
	possible), then take to a doctor.
Skin contact	Remove contaminated clothes. Rinse and then wash skin with water and soap.
Ingestion	Rinse mouth. Give a slurry of activated charcoal in water to drink. Give plenty of
	water to drink. Refer for medical attention.
Inhalation	Fresh air, rest. Refer for medical attention.
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

- Treat symptomatically.
- 2 Symptoms may be delayed.

# Fire-fighting measures

### | Extinguishing media

Suitable extinguishing media	Small fire: dry chemical, CO <sub>2</sub> or water spray; Large fire: dry chemical, CO <sub>2</sub> ,
	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

1 May emit poisonous fumes on fire. 2 Development of hazardous combustion gases or vapor possible in the event of fire. 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.
- Prevent fire extinguishing water from contaminating surface water or the ground water system.

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## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- 1 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.
- 6 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 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.
- 8 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

- 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.

## 8 Exposure controls/personal protection

### **Control parameters**

Occupational exposure limit values

Component Country/Region	Limit value - Eight hours	Limit value - Short term
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		ppm	mg/m³	ppm	mg/m³
Carbaryl	Japan - JSOH(2024–202 5)	-	5	-	-
	Permissible exposure standards for workers in the workplace	-	5	-	10
	Australia	-	5	-	-
	Canada - Ontario	-	0.5	-	-
	New Zealand	-	5	-	-
	USA - ACGIH	-	0.5(inhalable fraction and vapor)	-	-

### | 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.

## 9 Physical and chemical properties and safety characteristics

### | Physical and chemical properties

Appearance (physical state,	White crystalline solid or powder
color, etc.)	
Odor	No information available
Odor threshold	No information available
рН	No information available
Melting point/freezing point(°C)	142
Initial boiling point and boiling	Decompose before boiling
range(°C)	
Flash point(Closed cup,°C)	193~202
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)	6.9
Relative density(Water=1)	1.2
Solubility	Insoluble in water
n-octanol/water partition coefficient	1.59
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	No information available
Kinematic viscosity	Not applicable

# 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 products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

# 11 Toxicological information

## Acute toxicity

Component	LD <sub>50</sub> (oral)	LD <sub>50</sub> (dermal)	LC <sub>50</sub> (inhalation,4h)
Carbaryl	300mg/kg(Rat)	2000mg/kg(Rabbit)	No information available

## | Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
Carbaryl	Category 3	Not Listed	Not Listed

## Others

Carbaryl(Component)		
Skin corrosion/irritation	Based on available data, the classification criteria are not met	
Serious eye damage/irritation	Based on available data, the classification criteria are not met	
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-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 plants
Carbaryl	LC <sub>50</sub> : 3.43mg/L	EC <sub>50</sub> : 0.0081mg/L	ErC <sub>50</sub> : 2.5mg/L
	(96h)(Fish)	(48h)(Crustaceans)	(96h)(Algae)

## | Chronic aquatic toxicity

Chronic aquatic toxicity	No	information	available
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## | Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
Carbaryl	Low(Half-life = 30 days)	Low(Half-life = 0.31 days)

## | Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Carbaryl	Low	Log Kow=1.59

## | Mobility in soil

Component	log Koc	Remark
Carbaryl	2.383	

## 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

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#### 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.

# 15 Regulatory information

### International chemical inventory

Component	Α	В	С	D	E	F	G	Н	I	J	K	L	M
Carbaryl	√	√	√	×	√	<b>V</b>	√	×	<b>V</b>	×	√	√	√

- [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)

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[M] Inventory of Existing Chemical Substances in Taiwan, China (TCSI)

#### List of Chemical Substances under International Conventions

Component	A	В	С
Carbaryl	×	×	×

- [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
Carbaryl	V	×	√	√	√	√	√	<b>√</b>

- [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:

- " $\sqrt{\phantom{a}}$ " 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	2025/10/11
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 <sub>50</sub>	Lethal Concentration 50%	NFPA	National Fire Protection Association
LD <sub>50</sub>	Lethal Dose 50%	NTP	National Toxicology Program

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$EC_{50}$	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.