## **Safety Data Sheet**

## Tryptophan in 0.1mol Hcl: water

Version: V2.0.0.1

Report No.: BWQ0212-2016-MSDS-US

Creation Date: 2025/09/24

Revision Date: -



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

1	Identification
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## | Product identifier

<u>!</u>	
Product Name	Tryptophan in 0.1mol Hcl : water
Cat No.	BWQ0212-2016
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable

## 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

<b>F</b>	mla a manuscula a m	040 50400070
Emergency	phone number	010-58103678

Hazard(s) identification

## Hazard classification according to 29 CFR 1910.1200

According to OSHA HCS-2024, not classified as a hazardous chemical.

### | Label elements

Hazard pictograms	Not applicable
Signal word	Not applicable

#### | Hazard statements

Hazard statements	Not applicable

### | Precautionary statements

Prevention

Prevention	Not applicable
◆ Response	
Response	Not applicable
◆ Storage	
Storage	Not applicable
<ul><li>Disposal</li></ul>	
Disposal	Not applicable
Other hazards	

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Not applicable.

## | Hazard description

Physical and chemical hazards

No information available

### Health hazards

Inhaled	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.
Ingestion	Accidental ingestion of the product may be harmful to the health of the individual.
Skin Contact	Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects.
Eye	This product may cause temporary discomfort following direct contact with the eye.
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Environmental hazards

Please refer to 12th chapter of SDS.

## 3 Composition/information on ingredients

## Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
L-tryptophan	73-22-3	200-795-6	0.0503
Water	7732-18-5	231-791-2	99.5847
Hydrogen chloride	7647-01-0	231-595-7	0.365

## 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.	

	, )   10   10   10   10   10   10   10	
	Inhalation	Move victim into fresh air. If breathing is difficult, give oxygen. Do not use mouth t mouth resuscitation if victim ingested or inhaled the substance. If not breathing, give artificial respiration and consult a physician immediately.
Protec	ting of first-aiders	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.
Most impor	rtant symptoms/e	ffects, acute and delayed
	nce accumulation, in m occupational expo	the human body, may occur and may cause some concern following repeated or osure.
		medical attention and special treatment needed
	ymptomatically.	
2 Sympto	oms may be delayed.	
5 Fire-fig	ghting measure	es
Extinguish	ing media	
Suitable ext	tinguishing media	Use extinguishing media suitable for surrounding area.
Unsuita	ble extinguishing media	There is no restriction on the type of extinguisher which may be used.
		om the substance or mixture
1 Develop	ment of hazardous	combustion gases or vapor possible in the event of fire.
2 May ex	pansion or decompo	se explosively when heated or involved in fire.
Special pro	otective equipme	nt and precautions for fire-fighters
	ny fire, wear self-con ve gear.	tained breathing apparatus (MSHA/NIOSH approved or equivalent) and full
2 Fight fir	e from a safe distan	ce, with adequate cover.
3 Prevent	fire extinguishing w	ater from contaminating surface water or the ground water system.
6 Accide	ental release m	neasures
Personal p	recautions, prote	ctive equipment and emergency procedures
1 Use per	rsonal protective equ	uipment,do not breathe gas/mist/vapour/spray.
	•	. Remove all sources of ignition. Take precautionary measures against static
dischar	•	areas. Keep people away from and upwind of spill/leak.
	ental precautions	areas. Reep people away from and apwind of spin/reak.
	•	spillage if safe to do so.
		ent must be avoided.
I		ontainment and cleaning up
1 Cut off	the source of the lea	k as much as possible.
2 Keep le	eaks in a ventilated p	lace.
3 Absorb bunding	•	ry sand or inert absorbent. In case of large amount of spillage, contain a spill by
4 Remove	e all sources of igniti	on. Use spark-proof tools and explosion-proof equipment.
5 Contain	spillage, and then o	collect with an electrically protected vacuum cleaner or by wet-brushing and place

container.

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## 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.
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- 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
Hydrogen chloride	Australia	-	-	5	7.5
	Canada - Ontario	-	-	2	-
	European Union	5	8	10	15
	USA - NIOSH	-	-	5	7
	USA - OSHA	-	-	5	7
	Austria	5	8	10	15

## | 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	No special requirements, please see the description below.
Eye protection	In general situation, eye protection is not needed. In the production process, when contacting with vapour or dust, tightly fitting safety goggles.
Hand protection	In general situation, hand protection is not needed.
Respiratory protection	In general situation, respiratory protection is not needed. If exposure limits are exceeded or if irritation or other symptoms are experienced, wear dust proof mask or gas defence mask.
Skin and body protection	In general situation, skin and body protection are not needed.

## 9 Physical and chemical properties and safety characteristics

## | Physical and chemical properties

Appearance (physical state, color, etc.)  White to light yellow crystalline powder  Odor No information available  No information available  PH No information available  Melting point/freezing 278 ( L-tryptophan )	
Odor No information available  Odor threshold No information available  PH No information available	
Odor threshold No information available  PH No information available	
pH No information available	
·	
Molting point/fragging 279 ( Litroptophon )	
point(°C)	
Initial boiling point and boiling range(°C) >35	
Flash point(Closed cup,°C) No information available	
Evaporation rate No information available	
Flammability No information available	
Upper/lower explosive   Upper limit : No information available ; Lower limit :	able
Vapor pressure 2.6E-09hPa ( 25°C,L-tryptophan )	
Vapor density(Air = 1) No information available	
Relative density(Water=1) 1.39 ( 20 °C,L-tryptophan )	
Solubility 11.4g/L ( 25 °C,L-tryptophan )	
n-octanol/water partition coefficient -1.06 ( L-tryptophan )	
Auto-ignition temperature(°C) No information available	
Decomposition temperature(°C) No information available	
Kinematic viscosity No information available	

## 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	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen. In contact with magnesium, sodium, potassium, copper and other metals or metal acetylense may cause a fire or explosion.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide. Magnesium, sodium, potassium, copper, oxidants, acetylene metal compounds, alcohols, alkanes, hydrogen and water.
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products
products	should not be produced.

# Toxicological information

## | Acute toxicity

Component	LD <sub>50</sub> (oral)	LD <sub>50</sub> (dermal)	LC <sub>50</sub> (inhalation,4h)
L-tryptophan	> 16000mg/kg(Rat)	No information available	No information available

Hydrogen chloride900mg/kg(Rabbit)No information availableNo information available
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## | Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
L-tryptophan	Not Listed	Not Listed	Not Listed
Water	Not Listed	Not Listed	Not Listed
Hydrogen chloride	Category 3	Not Listed	Not Listed

## Others

	Tryptophan in 0.1mol Hcl : water
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
Hydrogen chloride	LC <sub>50</sub> : 20.5mg/L (96h)(Fish)	No information available	No information available

## | Chronic aquatic toxicity

Chronic aquatic toxicity No information available

## | Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)
L-tryptophan	High	High

## | Bioaccumulative potential

Component	Bioaccumulative potential	Comments
L-tryptophan	Low	Log Kow=-1.06

## | Mobility in soil

Component	log Koc	Remark
L-tryptophan	2.567	

## 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 Not applicable

#### IMDG-CODE

IMDG-CODE NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

## IATA-DGR

IATA-DGR NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

#### UN-ADR

UN-ADR NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

## 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** 

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	ı	J	K	L	M
L-tryptophan	V	√	<b>√</b>	<b>√</b>	√	√	√	√	√	×	√	<b>√</b>	√
Water	<b>√</b>	<b>√</b>	<b>√</b>	√	√	<b>√</b>	<b>√</b>	√	<b>√</b>	<b>√</b>	<b>√</b>	√	√
Hydrogen chloride	<b>√</b>	<b>√</b>	<b>√</b>	√	√	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	√	<b>√</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(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
L-tryptophan	×	×	×
Water	×	×	×
Hydrogen chloride	×	×	×

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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
L-tryptophan	×	×	×	×	×	×	×	×
Water	×	×	×	×	×	×	×	×
Hydrogen chloride	<b>√</b>	√	<b>√</b>	<b>√</b>	<b>√</b>	V	√	×

- [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	2025/09/24
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.
- $\hbox{[5]} \qquad \hbox{NLM: ChemIDplus, website: http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp.}$
- [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.

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[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 Meighted Average	IMDG-	International Maritima Dangerous Coods CODE
PC-TVVA	Time Weighted Average	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
EC <sub>50</sub>	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

### 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.