### **Safety Data Sheet**

# 4 Mix amides in water

Version: V2.0.0.1

Report No.: BWQ9320-2016-MSDS-US

Creation Date: 2025/10/29

Revision Date: -



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

1	Identification
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### | Product identifier

Product Name	4 Mix amides in water
Cat No.	BWQ9320-2016
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

Emergency phone number	010-58103678
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2 Hazard(s) identification

### Hazard classification according to 29 CFR 1910.1200

Reproductive Toxicity | Category 1B

### Label elements

**Hazard pictograms** 



Signal word

Dangei

### | Hazard statements

•	
H360	May damage the unborn child

### | Precautionary statements

Prevention

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

Response	Not applicable
1100001100	i tot applicable

Storage

P405 Store locked up.

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
<ul> <li>Health hazards</li> </ul>	
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 individua	
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.

Environmental hazards

Please refer to 12th chapter of SDS.

# Composition/information on ingredients

### Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
Formamide	75-12-7	200-842-0	0.1
N,N-dimethylformamide	68-12-2	200-679-5	0.05
N,N-dimethylacetamide	127-19-5	204-826-4	0.1
Acrylamide	79-06-1	201-173-7	0.05
Water	7732-18-5	231-791-2	99.7

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	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 Use personal protective equipment, do not breathe gas/mist/vapour/spray.
- 2 Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.
- 3 Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

### **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

- 1 Cut off the source of the leak as much as possible.
- 2 Keep leaks in a ventilated place.
- Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
- 4 Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.
- 5 Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

# 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

- 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
Formamide	Permissible exposure standards for workers in the workplace	20	37	30	55.5
	Australia	10	18	-	-
	Canada - Ontario	10	-	-	-
	New Zealand	10	18	-	-
	USA - ACGIH	1	-	-	-
	USA - NIOSH	10	15	-	-
N,N-dimethylformamide	Japan - JSOH(2024–202 5)	10	30	-	-
	Permissible exposure standards for workers in the workplace	10	30	15	45

	Australia	10	30	-	-
	Canada - Ontario	10	-	-	-
	New Zealand	5	15	-	-
	USA - ACGIH	5	-	-	-
N,N-dimethylacetamide	Japan - JSOH(2024–202 5)	5	18	-	-
	Permissible exposure standards for workers in the workplace	10	36	15	54
	Australia	10	36	-	-
	Canada - Ontario	10	-	-	-
	European Union	10	36	20	72
	New Zealand	10	36	-	-
Acrylamide	Japan - JSOH(2024–202 5)	-	0.1	-	-
	Permissible exposure standards for workers in the workplace	<del>-</del>	0.03	-	0.09
	Australia	-	0.03	-	-
	Canada - Ontario	-	0.03	-	-
	European Union	-	0.1	-	-
	New Zealand	-	0.0015	-	-

### | 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, color, etc.)  Odor  Odor  No information available  No information available  PH  8~10 ( 20°C, 200g/L,Formamide )  Melting point/freezing point(°C)  Initial boiling point and boiling range(°C)  Flash point(Closed cup, °C)  Evaporation rate  No information available  No information available  Flammability  Upper/lower explosive limits[%(v/v)]  Vapor pressure  Vapor density(Air = 1)  Relative density(Water=1)  Auto-ignition temperature(°C)  Decomposition temperature(°C)  Evaporation available  Closed cup, °C)  120 (Formamide)  No information available  Upper limit : 19 (Formamide); Lower limit : 2.7 (Formamide)  1.6 (Formamide)  1.13 (Formamide)  1.13 (Formamide)  -1.51 (Formamide)  Auto-ignition temperature(°C)  Vinematic viscosity  No information available		
Odor threshold pH 8~10 ( 20°C, 200g/L,Formamide )  Melting point/freezing point(°C) 2.5 ( Formamide )  Initial boiling point and boiling range(°C) Flash point(Closed cup,°C) 120 ( Formamide )  Evaporation rate Flammability No information available  Upper/lower explosive limits[%(v/v)] Vapor pressure Vapor density(Air = 1) 1.6 ( Formamide )  Relative density(Water=1) Auto-ignition temperature(°C) Decomposition temperature(°C)  Vapor density(°C) Picture (20°C, Formamide )  No information available Upper limit : 19 ( Formamide ); Lower limit : 2.7 ( Formamide )  1.6 ( Formamide )  1.13 ( Formamide )  -1.51 ( Formamide )  Decomposition temperature(°C)  210 ( Formamide )		clear or yellow liquid
Melting point/freezing point(°C)   2.5 ( Formamide )   2.5 ( For	Odor	No information available
Melting point/freezing point(°C) Initial boiling point and boiling range(°C) Flash point(Closed cup, °C) Flash point(Closed cup, °C)  Evaporation rate No information available Flammability Upper/lower explosive limits[%(v/v)] Vapor pressure Vapor density(Air = 1) Relative density(Water=1) Solubility Niscible with water (Formamide)  Auto-ignition temperature(°C)  Initial boiling point and	Odor threshold	No information available
Initial boiling point and boiling range(°C)  Flash point(Closed cup, °C)  Evaporation rate  No information available  Flammability  Upper/lower explosive limits[%(v/v)]  Vapor pressure  Vapor density(Air = 1)  Relative density(Water=1)  Solubility  No information available  Upper limit : 19 ( Formamide ); Lower limit : 2.7 ( Formamide )  1.6 ( Formamide )  Relative density(Water=1)  Solubility  n-octanol/water partition coefficient  Auto-ignition temperature(°C)  Decomposition temperature(°C)  210 ( Formamide )  210 ( Decompose,Formamide )  No information available  Upper limit : 19 ( Formamide ); Lower limit : 2.7 ( Formamide )  1.6 ( Formamide )  1.6 ( Formamide )  -1.51 ( Formamide )  -1.51 ( Formamide )  210 ( Formamide )	рН	8~10 ( 20°C, 200g/L,Formamide )
range(°C)  Flash point(Closed cup, °C)  Evaporation rate  No information available  Flammability  No information available  Upper/lower explosive	Melting point/freezing point(°C)	2.5 ( Formamide )
Flash point(Closed cup,°C) 120 (Formamide )  Evaporation rate No information available  Flammability Upper/lower explosive limits[%(v/v)]  Vapor pressure 8Pa ( 20°C,Formamide )  Vapor density(Air = 1) 1.6 (Formamide )  Relative density(Water=1) 1.13 (Formamide )  Solubility Miscible with water (Formamide )  n-octanol/water partition coefficient  Auto-ignition temperature(°C) 210 (Formamide )	Initial boiling point and boiling	210 ( Decompose,Formamide )
Evaporation rate Flammability No information available Upper/lower explosive limits[%(v/v)] Vapor pressure Vapor density(Air = 1) Relative density(Water=1) Solubility n-octanol/water partition coefficient Auto-ignition temperature(°C) Decomposition temperature(°C)  No information available No information available Upper limit : 19 ( Formamide ); Lower limit : 2.7 ( Formamide )  1.6 ( Formamide ) 1.6 ( Formamide ) 1.13 ( Formamide ) 1.13 ( Formamide ) 1.51 ( Formamide ) 210 ( Formamide )	range(°C)	
Flammability Upper/lower explosive limits[%(v/v)]  Vapor pressure Vapor density(Air = 1) Relative density(Water=1) Solubility n-octanol/water partition coefficient  Auto-ignition temperature(°C)  Lupper limit : 19 (Formamide ); Lower limit : 2.7 (Formamide )  8Pa ( 20°C,Formamide )  1.6 (Formamide )  1.13 (Formamide )  1.13 (Formamide )  -1.51 (Formamide )  > 500 (Formamide )  Decomposition temperature(°C)  210 (Formamide )	Flash point(Closed cup,°C)	120 ( Formamide )
Upper/lower explosive limits [%(v/v)]  Vapor pressure 8Pa ( 20°C,Formamide )  Vapor density(Air = 1) 1.6 ( Formamide )  Relative density(Water=1) 1.13 ( Formamide )  Solubility Miscible with water ( Formamide )  n-octanol/water partition coefficient  Auto-ignition temperature(°C) > 500 ( Formamide )  Decomposition temperature(°C) 210 ( Formamide )	Evaporation rate	No information available
Iimits[%(v/v)]   8Pa ( 20°C,Formamide )     Vapor density(Air = 1)   1.6 ( Formamide )     Relative density(Water=1)   1.13 ( Formamide )     Solubility   Miscible with water ( Formamide )     n-octanol/water partition coefficient   -1.51 ( Formamide )     Auto-ignition temperature(°C)   >500 ( Formamide )     Decomposition temperature(°C)   210 ( Formamide )	Flammability	No information available
Vapor pressure 8Pa ( 20°C,Formamide )  Vapor density(Air = 1) 1.6 ( Formamide )  Relative density(Water=1) 1.13 ( Formamide )  Solubility Miscible with water ( Formamide )  n-octanol/water partition coefficient  Auto-ignition temperature(°C) > 500 ( Formamide )  Decomposition temperature(°C) 210 ( Formamide )	Upper/lower explosive	Upper limit: 19 (Formamide); Lower limit: 2.7 (Formamide)
Vapor density(Air = 1)  Relative density(Water=1)  Solubility  Miscible with water (Formamide)  n-octanol/water partition coefficient  Auto-ignition temperature(°C)  Decomposition temperature(°C)  1.13 (Formamide)  -1.51 (Formamide)  > 500 (Formamide)  210 (Formamide)	limits[%(v/v)]	
Relative density(Water=1)  Solubility  Miscible with water ( Formamide )  n-octanol/water partition coefficient  Auto-ignition temperature(°C)  Decomposition temperature(°C)  1.13 ( Formamide )  -1.51 ( Formamide )  > 500 ( Formamide )  210 ( Formamide )	Vapor pressure	8Pa ( 20°C,Formamide )
Solubility Miscible with water ( Formamide )  n-octanol/water partition coefficient  Auto-ignition temperature(°C) > 500 ( Formamide )  Decomposition temperature(°C) 210 ( Formamide )	Vapor density(Air = 1)	1.6 ( Formamide )
n-octanol/water partition coefficient  Auto-ignition temperature(°C) > 500 ( Formamide )  Decomposition temperature(°C) 210 ( Formamide )	Relative density(Water=1)	1.13 ( Formamide )
coefficient Auto-ignition temperature(°C) > 500 ( Formamide )  Decomposition temperature(°C) 210 ( Formamide )	Solubility	Miscible with water ( Formamide )
Auto-ignition temperature(°C) > 500 ( Formamide )  Decomposition temperature(°C) 210 ( Formamide )	n-octanol/water partition	-1.51 ( Formamide )
Decomposition temperature(°C) 210 ( Formamide )	coefficient	
	Auto-ignition temperature(°C)	> 500 ( Formamide )
Kinematic viscosity No information available	Decomposition temperature(°C)	210 ( Formamide )
	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	Hydrolyzes into acids and amine(ammonia) if catalyzed by acids or alkalis. In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen.
Conditions to avoid	Incompatible materials, heat, flame and spark.
Incompatible materials	Acids, alkalis, oxidants, ammonia, isocyanate, phenol and cresol. Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide.
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)
N,N-dimethylacetamide	4300mg/kg(Rat)	2240mg/kg(Rabbit)	No information available
Formamide	5577mg/kg(Rat)	17000mg/kg(Rabbit)	No information available
Acrylamide	124mg/kg(Rat)	400mg/kg(Rat)	No information available
N,N-dimethylformamide	2800mg/kg(Rat)	4720mg/kg(Rabbit)	No information available

## Carcinogenicity

Component	List of carcinogens by	Report on Carcinogens	OSHA Carcinogen List
	the IARC Monographs	by NTP	
Formamide	Not Listed	Not Listed	Not Listed
N,N-dimethylformamide	Category 2A	Not Listed	Not Listed
N,N-dimethylacetamide	Category 2B	Not Listed	Not Listed
Acrylamide	Category 2A(Remark 1)	Category R	Not Listed
Water	Not Listed	Not Listed	Not Listed

Remark 1: Overall evaluation upgraded to Group 2A with supporting evidence from other relevant data

## Others

4 Mix amides in 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	May damage the unborn child(Category 1B)	
STOT-single exposure	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
Formamide	LC <sub>50</sub> : >100mg/L	EC <sub>50</sub> : >1000mg/L	ErC <sub>50</sub> : >1000mg/L
	(96h)(Fish)	(48h)(Crustaceans)	(72h)(Algae)
Acrylamide	LC <sub>50</sub> :180mg/L (96h)(Fish)	EC <sub>50</sub> : 98mg/L	No information available
		(48h)(Crustaceans)	
N,N-dimethylformamide	LC <sub>50</sub> : 10500mg/L	EC <sub>50</sub> : >1000mg/L	ErC <sub>50</sub> : >1000mg/L
	(96h)(Fish)	(48h)(Crustaceans)	(72h)(Algae)

## | Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic
			plants
Formamide	No information available	NOEC:	NOEC: 10mg/L(Algae)
		100mg/L(Crustaceans)	
Acrylamide	NOEC : 5mg/L(Fish)	No information available	No information available
N,N-dimethylformamide	NOEC: > 102mg/L(Fish)	NOEC: >1000mg/L(Crust	NOEC: 1000mg/L(Algae)
		aceans)	

## | Persistence and degradability

Component	Persistence (water/soil)	Persistence (air)

Formamide	Low	Low
N,N-dimethylacetamide	Low	Low

### Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Formamide	Low	Log Kow=-1.51
N,N-dimethylacetamide Low		BCF=1.32

### | Mobility in soil

Component	log Koc	Remark
Formamide	0.93	20 ℃
N,N-dimethylformamide	0	
N,N-dimethylacetamide	1.46	20 ℃

# 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
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### IMDG-CODE

IMPC CODE				$\sim \sim \sim \sim$
IIVIDG-CODE	NOT REGULATED	FUR IRANSPURI	OF DANGEROUS	GUUUS

### IATA-DGR

LATA DOD		EOD TO MICOODT	$\alpha \alpha $
	N()  PF(=   A F )	FOR TRANSPORT	(=( )( )( )( )

### 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	Е	F	G	Н	I	J	K	L	М
Formamide	√	√	√	√	√	√	√	√	√	√	√	√	√
N,N-dimethylformamide	<b>√</b>	<b>√</b>	√	<b>√</b>	<b>√</b>	√	√	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	√
N,N-dimethylacetamide	<b>√</b>	√	√	<b>√</b>	<b>√</b>	<b>√</b>	√	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Acrylamide	<b>√</b>	√		<b>√</b>	√	<b>√</b>	√	√	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Water	<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(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

Component	A	В	С
Formamide	×	×	×
N,N-dimethylformamide	×	×	×
N,N-dimethylacetamide	×	×	×
Acrylamide	×	×	×
Water	×	×	×

- [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
Formamide	×	×	×	√	√	√	√	×
N,N-dimethylformamide	√	×	√	√	√	√	√	√
N,N-dimethylacetamide	×	×	×	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>	<b>√</b>
Acrylamide	√	√	√	√	√	√	√	√

Water	×	×	×	×	×	×	×	×

- [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	2025/10/29
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/.
- $[7] \qquad \text{U.S. Department of Transportation: ERG, website: http://www.phmsa.dot.gov/hazmat/library/erg.} \\$
- [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
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.