

## Safety Data Sheet

# Lead Acetate standard solution

Version : V2.0.0.1

Report No. : BWZ8096-2016-MSDS-EP

Creation Date : 2026/01/27

Revision Date : -



\*Prepared in accordance with EU REACH Regulation (REACH 1907/2006 with amendment 2020/878)

## 1 Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product Name	Lead Acetate standard solution
Cat No.	BWZ8096-2016
CAS No.	Not applicable
EC No.	Not applicable
Molecular Formula	Not applicable
REACH Registration Number	-
UFI	No information available

### 1.2 Relevant identified uses of the substance or mixture and uses advised against

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

### 1.3 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

### 1.4 Emergency telephone number

Emergency telephone number	010-58103678
Opening hours	24h

## 2 Hazards identification

### 2.1 CLP classification according to Regulation ( EC ) No. 1272/2008 with amendment 2023/707

Acute Toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 1A
Reproductive toxicity	Category 1A
Hazardous to the aquatic environment - long-term (chronic) hazard	Category 3

## 2.2 Label elements

Hazard pictograms	
Signal word	<b>Danger</b>

## Hazard statements

H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H360	May damage fertility or the unborn child
H412	Harmful to aquatic life with long lasting effects

## 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 gas/mist/vapour/spray.
P264	Wash hands and other parts of the body (if related) thoroughly after handling.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.

### ◆ Response

P310	Immediately call a POISON CENTER/doctor.
P321	Specific treatment (see related instructions on the label).
P363	Wash contaminated clothing before reuse.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse affected areas with water [or shower].
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.
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## 2.3 Other hazards

### ◆ Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Lead acetate	Insufficient information, temporarily unable to evaluate

<b>Water</b>	Insufficient information, temporarily unable to evaluate
<b>Acetic acid</b>	Insufficient information, temporarily unable to evaluate

◆ Results of endocrine disrupting properties assessment

<b>Component</b>	<b>Results of endocrine disrupting properties assessment [according to (EU) No 2017/2100 or (EU) No 2018/605]</b>
<b>Lead acetate</b>	Insufficient information, temporarily unable to evaluate
<b>Water</b>	Insufficient information, temporarily unable to evaluate
<b>Acetic acid</b>	Insufficient information, temporarily unable to evaluate

◆ Other

	Not applicable.
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### 3 Composition/information on ingredients

#### 3.1 Substance

	Not applicable
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#### 3.2 Mixture

<b>Component</b>	<b>Weight % content(or range)</b>	<b>Classification according to Regulation ( EC ) No. 1272/2008 with amendment 2023/707 [CLP]</b>	<b>Specific Conc. Limits, M-factors</b>
<b>Lead acetate</b> CAS : 15347-57-6 EC : 239-379-4 Index No. : -	1.16	Acute Toxicity - Oral, Category 4, H302; Acute Toxicity - Inhalation, Category 4, H332; Reproductive toxicity, Category 1A, H360; Specific target organ toxicity - repeated exposure, Category 2, H373; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400; Hazardous to the aquatic environment - long-term (chronic) hazard, Category 1, H410	-
<b>Water</b> CAS : 7732-18-5 EC : 231-791-2 Index No. : -	0.42	Not Classified	-
<b>Acetic acid</b> CAS : 64-19-7 EC : 200-580-7 Index No. : 607-002-00-6	98.42	Flammable liquids, Category 3, H226; Skin corrosion/irritation, Category 1A, H314	H314A:C ≥ 90% H314B:25% ≤ C < 90% H315:10% ≤ C < 25% H319:10% ≤ C < 25%

### 4 First-aid measures

#### 4.1 Description of first aid measures

<b>General advice</b>	Immediate medical attention is required. Show this safety data sheet (SDS) to the doctor in attendance.
<b>Eye contact</b>	Rinse with plenty of water (remove contact lenses if easily possible). Refer immediately for medical attention.
<b>Skin contact</b>	Remove contaminated clothes. Rinse skin with plenty of water or shower for at least 15 minutes. Refer immediately for medical attention.
<b>Ingestion</b>	Rinse mouth. Do NOT induce vomiting. If within a few minutes after ingestion, one small glass of water may be given to drink. Refer immediately for medical attention.
<b>Inhalation</b>	Fresh air, rest. Half-upright position. Refer immediately for medical attention.

<b>Protecting of first-aiders</b>	Ensure that medical personnel are aware of the substance involved. Take precautions to protect themselves and prevent spread of contamination.
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#### 4.2 Most important symptoms/effects, acute and delayed

1	Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.
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#### 4.3 Indication of any immediate medical attention and special treatment needed

1	Treat symptomatically.
2	Symptoms may be delayed.

### 5 Fire-fighting measures

#### 5.1 Extinguishing media

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

#### 5.2 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.

#### 5.3 Advice for firefighters

1	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

#### 6.1 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.

#### 6.2 Environmental precautions

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

#### 6.3 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	Absorb spilled material in dry sand or inert absorbent. In case of large amount of spillage, contain a spill by bunding.
4	Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.
5	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container.

#### 6.4 Reference to other sections

1	Personal Protective Equipment advice is contained in Section 8 of the SDS.
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2	Disposal considerations advice is contained in Section 13 of the SDS.
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## 7 Handling and storage

### 7.1 Precautions for safe handling

#### ◆ Protective measures

1	Handling is performed in a well ventilated place.
2	Wear suitable protective equipment.
3	Avoid contact with skin and eyes.

#### ◆ Measures to prevent fire

1	Keep away from heat/sparks/open flames/ hot surfaces.
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#### ◆ Measures to prevent aerosol and dust generation

1	Not applicable.
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#### ◆ Advice on general occupational hygiene

1	Wash hands and face after using the substances.
2	Replace the contaminated clothing immediately.

### 7.2 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.

### 7.3 Specific end use(s)

1	In addition to use mentioned in the Section 1.2, unforeseen other specific end uses.
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## 8 Exposure controls/personal protection

### 8.1 Control parameters

#### ◆ Occupational exposure limit values

Component	Country/Region	Limit value - Eight hours		Limit value - Short term	
		ppm	mg/m <sup>3</sup>	ppm	mg/m <sup>3</sup>
Lead acetate	Japan - JSOH(2024-2025)	-	0.03(as Pb)	-	-
Acetic acid	Japan - JSOH(2024-2025)	10	25	-	-
	Permissible exposure standards for workers in the workplace	10	25	15	37.5
	European Union	10	25	20	50
	France	10	25	20	50
	Germany (AGS)	10	25	20	50
	Germany (DFG)	10	25	20	50

◆ Biological limit values

<b>Biological limit values</b>	No relevant regulations
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◆ Monitoring methods

1	EN 14042 Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.
2	GBZ/T 300 and GBZ/T 160 series standard Determination of toxic substances in workplace air.

◆ Derived No effect level (DNEL)

Component	Route of exposure	DNEL for Workers			
		Acute effects (local)	Acute effects (systemic)	Chronic effects (local)	Chronic effects (systemic)
<b>Lead acetate</b>	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
<b>Water</b>	Inhalation	No data available	No data available	No data available	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available
<b>Acetic acid</b>	Inhalation	No data available	No data available	25 mg/m <sup>3</sup>	No data available
	Oral	No data available	No data available	No data available	No data available
	Dermal	No data available	No data available	No data available	No data available

◆ Predicted No Effect Concentration (PNEC)

Component	A	B	C	D	E	F	G	H
<b>Acetic acid</b>	3.058 mg/L	305.8 µg/L	85 mg/L	11.36 mg/kg sediment dw	1.136 mg/kg sediment dw	No hazard identified	470 µg/kg soil dw	No potential for bioaccumulation

**Note 1:**

A: Freshwater; B: Seawater; C: Sewage treatment plant; D: Sediment (freshwater); E: Sediment (seawater); F: Air; G: Soil; H: Secondary poisoning(Hazard for Predators).

**Note 2:**

The PNEC values of the remaining components not shown in the product are not available yet.

## 8.2 Exposure controls

### 8.2.1 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.

### 8.2.2 Personal protection equipment

General requirement	
Eye protection	Must wear appropriate anti-corrosion goggles.

<b>Hand protection</b>	Must wear acid and alkali resistant chemical protective gloves.
<b>Respiratory protection</b>	Must wear appropriate personal respiratory protective equipment.
<b>Skin and body protection</b>	Must wear acid and alkali resistant chemical protective clothing.

### 8.2.3 Environmental exposure controls

<b>Environmental exposure controls</b>	No information available
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## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>Physical state</b>	Colorless to light yellow transparent liquid.
<b>Colour</b>	Colorless to light yellow transparent liquid.
<b>Odor</b>	No information available
<b>Odor threshold</b>	No information available
<b>pH</b>	No information available
<b>Melting point/freezing point(°C)</b>	No information available
<b>Initial boiling point and boiling range(°C)</b>	>35
<b>Flash point(Closed cup, °C)</b>	No information available
<b>Evaporation rate</b>	No information available
<b>Flammability</b>	Not flammable
<b>Upper/lower explosive limits[% (v/v)]</b>	Upper limit : No information available ; Lower limit : No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density(Air = 1)</b>	No information available
<b>Relative density(Water=1)</b>	≈1.02 g/cm <sup>3</sup> ( 20°C , 近似水溶液 )
<b>Solubility</b>	完全溶于乙酸-水混合溶液
<b>n-octanol/water partition coefficient</b>	No information available
<b>Auto-ignition temperature(°C)</b>	No information available
<b>Decomposition temperature(°C)</b>	No information available
<b>Kinematic viscosity</b>	No information available
<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available
<b>Particle characteristics</b>	Not applicable

### 9.2 Other information

#### 9.2.1 Information with regard to physical hazard classes

<b>Information with regard to physical hazard classes</b>	No information available
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#### 9.2.2 Other safety characteristics

<b>Other safety characteristics</b>	No information available
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## 10 Stability and reactivity

### Stability and reactivity

<b>10.1 Reactivity</b>	Contact with incompatible substances can cause decomposition or other
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	chemical reactions.
<b>10.2 Chemical stability</b>	Stable under proper operation and storage conditions.
<b>10.3 Possibility of hazardous reactions</b>	In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen. Flammable, its gas or powder, if in contact with air, may form explosive mixtures.
<b>10.4 Conditions to avoid</b>	Incompatible materials, heat, flame and spark.
<b>10.5 Incompatible materials</b>	Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide. Metal alkoxides, furfuryl alcohol, acetaldehyde, nitric acid, nitrate, nitrite, oxyacid salt halogen and inorganic peroxide.
<b>10.6 Hazardous decomposition products</b>	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 Toxicological information

### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008 with amendment 2023/707

Lead Acetate standard solution	
<b>Skin corrosion/irritation</b>	Causes severe skin burns and eye damage(Category 1A)
<b>Serious eye damage/irritation</b>	Based on available data, the classification criteria are not met
<b>Skin sensitization</b>	Based on available data, the classification criteria are not met
<b>Respiratory sensitization</b>	Based on available data, the classification criteria are not met
<b>Reproductive toxicity</b>	May damage fertility or the unborn child(Category 1A)
<b>STOT-single exposure</b>	Based on available data, the classification criteria are not met
<b>STOT-repeated exposure</b>	Based on available data, the classification criteria are not met
<b>Aspiration hazard</b>	Based on available data, the classification criteria are not met
<b>Germ cell mutagenicity</b>	Based on available data, the classification criteria are not met

### Acute toxicity

Component	LD <sub>50</sub> (oral)	LD <sub>50</sub> (dermal)	LC <sub>50</sub> (inhalation,4h)
Acetic acid	3310mg/kg(Rat)	1130mg/kg(Rabbit)	No information available

### Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP
Lead acetate	Category 3(Remark 1)	Category R
Water	Not Listed	Not Listed
Acetic acid	Not Listed	Not Listed

Remark 1: Organic lead compounds are metabolized at least in part, to ionic lead both in humans and animals. To the extent that ionic lead, generated from organic lead, is present in the body, it will be expected to exert the toxicities associated with inorganic lead

### 11.2 Information on other hazards

#### 11.2.1 Endocrine disrupting properties

Component	Endocrine disrupting properties
Lead acetate	No information available

Water	No information available
Acetic acid	No information available

## 11.2.2 Other Information

Other Information	See Section 11.1
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## 12 Ecological information

### 12.1 Toxicity

#### Acute aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Acetic acid	LC <sub>50</sub> : 300.82mg/L (96h)(Fish)	EC <sub>50</sub> : 65mg/L (48h)(Crustaceans)	No information available

#### Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic plants
Acetic acid	NOEC : 34.3 ~57.2mg/L(Fish)	No information available	No information available

### 12.2 Persistence and degradability

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

### 12.3 Bioaccumulative potential

Component	Bioaccumulative potential	Comments
Acetic acid	Low	Log Kow=-0.17

### 12.4 Mobility in soil

Component	log Koc	Remark
Acetic acid	0.06	20 °C

### 12.5 Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Lead acetate	Insufficient information, temporarily unable to evaluate
Water	Insufficient information, temporarily unable to evaluate
Acetic acid	Insufficient information, temporarily unable to evaluate

### 12.6 Endocrine disrupting properties

Component	Endocrine disrupting properties
Lead acetate	No information available
Water	No information available

Acetic acid	No information available
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## 12.7 Other adverse effects

	No information available
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## 13 Disposal considerations

### 13.1 Waste treatment methods

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

IMDG-CODE	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### IATA-DGR

IATA-DGR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### UN-ADR

UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS
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### Special precautions for user

	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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### Maritime transport in bulk according to IMO instruments

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

	Not Available
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- ◆ Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

	Not Available
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- ◆ Transport in bulk in accordance with the IGC Code

	Not Available
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## 15 Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### International chemical inventory

Component	A	B	C	D	E	F	G	H	I	J	K	L	M
Lead acetate	x	√	x	√	x	√	√	x	√	x	x	√	√

<b>Water</b>	√	√	√	√	√	√	√	√	√	√	√	√	√	√
<b>Acetic acid</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)  
**[I]** 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	B	C
<b>Lead acetate</b>	×	×	×
<b>Water</b>	×	×	×
<b>Acetic acid</b>	×	×	×

- [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

### European chemical inventory

Component	A	B	C	D	E	F	G	H	I
<b>Lead acetate</b>	×	×	√	√	×	×	√	×	×
<b>Water</b>	×	×	×	√	×	×	×	×	×
<b>Acetic acid</b>	×	×	×	√	√	×	×	×	×

- [A]** Candidate list of Substances of Very High Concern for authorization under EU REACH regulation  
**[B]** Substances requiring authorisation under EU REACH regulation  
**[C]** Substances restricted under EU REACH  
**[D]** Pre-registered substances under EU REACH  
**[E]** Registered substances under EU REACH  
**[F]** Substance Evaluation – CoRAP under EU REACH  
**[G]** List of priority substances under EU water policy ( Directive 2455/2001/EC )  
**[H]** Substances subject to POPs Regulation  
**[I]** Substances proposed as POPs

Note:

- “√” Indicates that the substance included in the regulations.  
 “×” No data or not included in the regulations.

### German water hazard class(WGK)

Component	WGK	Remark
<b>Acetic acid</b>	WGK 1	

- [WGK 1]** slightly hazardous to water  
**[WGK 2]** obviously hazardous to water  
**[WGK 3]** highly hazardous to water

【nwg】 non-hazardous to water  
 【awg】 hazardous to water in general

### German technical instructions on air quality control(TA LUFT)

Component	TA LUFT	Remark
Acetic acid	Chapter 5.2.5 Organic Substances. Class II. The following values are in all not allowed to be exceeded in the exhaust gas: Mass flow: 0,50 kg/hr or Mass conc.: 0,10 g/m <sup>3</sup>	

### German technical rules for hazardous substances(TRGS)

Component	TRGS	Remark
Water	TRGS 500 TRGS 509 TRGS 510	
Acetic acid	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 402 TRGS 401 TRGS 500 TRGS 509 TRGS 510 TRGS 800 TRGS 720 TRGS 721 TRGS 722 TRGS 723 TRGS 724	

### 15.2 Chemical safety assessment

	No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.
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## 16 Other information

### Information on revision

Creation Date	2026/01/27
Revision Date	-
Reason for revision	-

### Reference

- [1] IPCS: The International Chemical SafetyCards (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
EC <sub>50</sub>	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
EC <sub>x</sub>	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative

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P <sub>ow</sub>	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
BCF	Bioconcentration factor	RPE	Respiratory Protective Equipment
ED	Endocrine disruptor		

## **Disclaimer**

This Safety Data Sheet (SDS) was prepared according to REACH Regulation. 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.