

## Safety Data Sheet

# 8 Mix anions in water

Version : V2.0.0.1

Report No. : BWB2109-2016-MSDS-EP

Creation Date : 2026/01/24

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	8 Mix anions in water
Cat No.	BWB2109-2016
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

According to Regulation (EC) No 1272/2008 and its amendments. Not classified as a dangerous substance.

### 2.2 Label elements

Hazard pictograms	Not applicable
Signal word	Not applicable

### Hazard statements

<b>Hazard statements</b>	Not applicable
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### Precautionary statements

◆ Prevention

<b>Prevention</b>	Not applicable
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◆ Response

<b>Response</b>	Not applicable
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◆ Storage

<b>Storage</b>	Not applicable
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◆ Disposal

<b>Disposal</b>	Not applicable
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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]
Sodium chloride	Not PBT/vPvB
Sodium fluoride	Not applicable
Potassium bromide	Not applicable
Potassium dihydrogenorthophosphate	Not applicable
Potassium nitrate	Not applicable
Potassium sulfate	Not applicable
Sodium nitrite	Not applicable
Sodium sulphite	Not applicable
Water	Insufficient information, temporarily unable to evaluate

◆ Results of endocrine disrupting properties assessment

Component	Results of endocrine disrupting properties assessment [according to (EU) No 2017/2100 or (EU) No 2018/605]
Sodium chloride	Insufficient information, temporarily unable to evaluate
Sodium fluoride	Insufficient information, temporarily unable to evaluate
Potassium bromide	Insufficient information, temporarily unable to evaluate
Potassium dihydrogenorthophosphate	Insufficient information, temporarily unable to evaluate
Potassium nitrate	Insufficient information, temporarily unable to evaluate
Potassium sulfate	Insufficient information, temporarily unable to evaluate
Sodium nitrite	Insufficient information, temporarily unable to evaluate
Sodium sulphite	Insufficient information, temporarily unable to evaluate
Water	Insufficient information, temporarily unable to evaluate

## ◆ Other

Not applicable.

**3** Composition/information on ingredients**3.1 Substance**

Not applicable

**3.2 Mixture**

Component	Weight % content(or range)	Classification according to Regulation ( EC ) No. 1272/2008 with amendment 2023/707 [CLP]	Specific Conc. Limits, M-factors
<b>Sodium chloride</b> CAS : 7647-14-5 EC : 231-598-3 Index No. : -	0.01	Not Classified	-
<b>Sodium fluoride</b> CAS : 7681-49-4 EC : 231-667-8 Index No. : 009-004-00-7	0.01	Acute Toxicity - Oral, Category 3, H301; Skin Corrosion/Irritation, Category 2, H315; Serious eye damage/irritation, Category 2, H319; Contact with acids liberates very toxic gas, EUH032	-
<b>Potassium bromide</b> CAS : 7758-02-3 EC : 231-830-3 Index No. : -	0.01	Serious eye damage/irritation, Category 2, H319	-
<b>Potassium dihydrogenorthophosphate</b> CAS : 7778-77-0 EC : 231-913-4 Index No. : -	0.01	Not Classified	-
<b>Potassium nitrate</b> CAS : 7757-79-1 EC : 231-818-8 Index No. : -	0.01	Oxidizing solids, Category 3, H272	-
<b>Potassium sulfate</b> CAS : 7778-80-5 EC : 231-915-5 Index No. : -	0.01	Not Classified	-
<b>Sodium nitrite</b> CAS : 7632-00-0 EC : 231-555-9 Index No. : 007-010-00-4	0.01	Oxidizing solids, Category 3, H272; Acute Toxicity - Oral, Category 3, H301; Hazardous to the aquatic environment - short-term (acute) hazard, Category 1, H400	-
<b>Sodium sulphite</b> CAS : 7757-83-7 EC : 231-821-4 Index No. : -	0.01	Not Classified	-
<b>Water</b> CAS : 7732-18-5 EC : 231-791-2 Index No. : -	99.92	Not Classified	-

**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.
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<b>Eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician if feel uncomfortable.
<b>Skin contact</b>	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.
<b>Ingestion</b>	Never give anything by mouth to an unconscious person. Call a physician or Poison Control Center immediately.
<b>Inhalation</b>	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.
<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.

#### 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.
2	Disposal considerations advice is contained in Section 13 of the SDS.

## 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>
Sodium fluoride	Permissible exposure standards for workers in the workplace	-	2.5 (as F)	-	5 (as F)

	France	-	2	-	-
	South Korea	-	2.5	-	-
	USA - ACGIH	-	2.5(as F)	-	-

◆ Biological limit values

Component	Standard	Biological monitoring index	Biological limits value	Sampling time	Remark
Sodium fluoride	SCOEL(EU)	Fluorine/urine	8mg/L	end of shift	
		Fluoride(Urine)	2mg/L	Prior to shift	
		Fluoride(Urine)	3mg/L	End of shift	
Sodium nitrite	USA -ACGIH	Methemoglobin( Hemoglobin in blood)	5%	During or end of shift	

◆ 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)
Sodium chloride	Inhalation	No data available	No data available	No data available	2068.62 mg/m <sup>3</sup>
	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
Sodium fluoride	Inhalation	No data available	No data available	2.5 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
Potassium bromide	Inhalation	No data available	No data available	No data available	4.75 mg/m <sup>3</sup>
	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
Potassium dihydrogenorthop hosphate	Inhalation	No data available	No data available	No data available	14.82 mg/m <sup>3</sup>
	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
Potassium nitrate	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
Potassium sulfate	Inhalation	No data available	No data available	No data available	37.6 mg/m <sup>3</sup>
	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
Sodium nitrite	Inhalation	No data available	No data available	No data available	2 mg/m <sup>3</sup>
	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>Sodium sulphite</b>	Inhalation	No data available	No data available	No data available	298 mg/m <sup>3</sup>
	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

◆ Predicted No Effect Concentration (PNEC)

Component	A	B	C	D	E	F	G	H
<b>Sodium chloride</b>	5 mg/L	No data available	500 mg/L	No data available	No data available	No data available	4.86 mg/kg soil dw	No potential for bioaccumulation
<b>Sodium fluoride</b>	900 µg/L	No data available	51 mg/L	No data available	No data available	No data available	11 mg/kg soil dw	No data available
<b>Potassium bromide</b>	520 µg/L	41 mg/L	100 mg/L	No data available	No data available	No hazard identified	3.2 mg/kg soil dw	No potential for bioaccumulation
<b>Potassium dihydrogenorthophosphate</b>	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No potential for bioaccumulation
<b>Potassium nitrate</b>	No hazard identified	No hazard identified	18 mg/L	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No potential for bioaccumulation
<b>Potassium sulfate</b>	680 µg/L	68 µg/L	10 mg/L	No data available	No data available	No data available	No data available	No potential for bioaccumulation
<b>Sodium nitrite</b>	5.4 µg/L	6.16 µg/L	21 mg/L	19.5 µg/kg sediment dw	22.3 µg/kg sediment dw	No data available	733 ng/kg soil dw	No data available
<b>Sodium sulphite</b>	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	No hazard identified	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	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.

### 8.2.3 Environmental exposure controls

Environmental exposure controls	No information available
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## 9 Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state	colorless liquid
Colour	colorless liquid
Odor	No special odor
Odor threshold	No information available
pH	No information available
Melting point/freezing point(°C)	No information available
Initial boiling point and boiling range(°C)	>35
Flash point(Closed cup, °C)	No information available
Evaporation rate	No information available
Flammability	Not flammable
Upper/lower explosive limits[% (v/v)]	Upper limit : No information available ; Lower limit : No information available
Vapor pressure	No information available
Vapor density(Air = 1)	No information available
Relative density(Water=1)	No information available
Solubility	Very soluble in water
n-octanol/water partition coefficient	No information available
Auto-ignition temperature(°C)	No information available
Decomposition temperature(°C)	No information available
Kinematic viscosity	No information available
Explosive properties	No information available
Oxidizing properties	No information available

Particle characteristics	Not applicable
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## 9.2 Other information

### 9.2.1 Information with regard to physical hazard classes

Information with regard to physical hazard classes	No information available
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### 9.2.2 Other safety characteristics

Other safety characteristics	No information available
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## 10 Stability and reactivity

### Stability and reactivity

10.1 Reactivity	Contact with incompatible substances can cause decomposition or other chemical reactions.
10.2 Chemical stability	Stable under proper operation and storage conditions.
10.3 Possibility of hazardous reactions	Mixture with active metal powders may explode intensely if heated. In contact with active metals (alkali metals, Na, Ca etc.) causes a reaction and release hydrogen.
10.4 Conditions to avoid	Incompatible materials, heat, flame and spark.
10.5 Incompatible materials	Active metal powder, non-metal elemental powder, sulfide, metal amino compound, metal acetylene compound, phenols, metal sulfamate, metal cyanide, thiocyanate, phosphide, hypophosphite, carboxylic acid, carboxylic anhydride, Carboxylic acid esters, ethanol, reducing agents and performic acid. Alkali, sodium, calcium, and other active metal, halogen, metal oxide, nonmetal oxide, acyl halide and metal phosphide.
10.6 Hazardous decomposition products	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

8 Mix anions 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	Based on available data, the classification criteria are not met
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

### Acute toxicity

Component	LD <sub>50</sub> (oral)	LD <sub>50</sub> (dermal)	LC <sub>50</sub> (inhalation,4h)
Sodium nitrite	180mg/kg(Rat)	No information available	5.5mg/L(Rat)
Potassium bromide	3070mg/kg(Rat)	No information available	No information available
Sodium sulphite	3560mg/kg(Rat)	No information available	No information available
Potassium	No information available	> 4640mg/kg(Rabbit)	No information available

<b>dihydrogenorthophosphate</b>			
<b>Potassium sulfate</b>	6600mg/kg(Rat)	No information available	No information available
<b>Sodium fluoride</b>	180mg/kg(Rat)	No information available	No information available
<b>Potassium nitrate</b>	3750mg/kg(Rat)	No information available	No information available
<b>Sodium chloride</b>	3000mg/kg(Rat)	> 10000mg/kg(Rabbit)	No information available

## | Carcinogenicity

<b>Component</b>	<b>List of carcinogens by the IARC Monographs</b>	<b>Report on Carcinogens by NTP</b>
<b>Sodium chloride</b>	Not Listed	Not Listed
<b>Sodium fluoride</b>	Not Listed	Not Listed
<b>Potassium bromide</b>	Not Listed	Not Listed
<b>Potassium dihydrogenorthophosphate</b>	Not Listed	Not Listed
<b>Potassium nitrate</b>	Not Listed	Not Listed
<b>Potassium sulfate</b>	Not Listed	Not Listed
<b>Sodium nitrite</b>	Not Listed	Not Listed
<b>Sodium sulphite</b>	Not Listed	Not Listed
<b>Water</b>	Not Listed	Not Listed

## | 11.2 Information on other hazards

### | 11.2.1 Endocrine disrupting properties

<b>Component</b>	<b>Endocrine disrupting properties</b>
<b>Sodium chloride</b>	No information available
<b>Sodium fluoride</b>	No information available
<b>Potassium bromide</b>	No information available
<b>Potassium dihydrogenorthophosphate</b>	No information available
<b>Potassium nitrate</b>	No information available
<b>Potassium sulfate</b>	No information available
<b>Sodium nitrite</b>	No information available
<b>Sodium sulphite</b>	No information available
<b>Water</b>	No information available

### | 11.2.2 Other Information

<b>Other Information</b>	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
Sodium nitrite	LC <sub>50</sub> : 0.675mg/L (96h)(Fish)	No information available	No information available
Potassium bromide	LC <sub>50</sub> : 440mg/L (96h)(Fish)	No information available	No information available
Sodium sulphite	LC <sub>50</sub> : 149.5mg/L (96h)(Fish)	No information available	No information available
Potassium dihydrogenorthophosphate	LC <sub>50</sub> : > 100mg/L (96h)(Fish)	EC <sub>50</sub> : > 100mg/L (48h)(Crustaceans)	ErC <sub>50</sub> : > 100mg/L (72h)(Algae)
Potassium sulfate	LC <sub>50</sub> : 680mg/L (96h)(Fish)	No information available	No information available
Sodium fluoride	LC <sub>50</sub> : 51mg/L (96h)(Fish)	EC <sub>50</sub> : 98mg/L (48h)(Crustaceans)	ErC <sub>50</sub> : 900mg/L (96h)(Algae)
Potassium nitrate	LC <sub>50</sub> : > 100mg/L (96h)(Fish)	EC <sub>50</sub> : 490mg/L (48h)(Crustaceans)	No information available
Sodium chloride	LC <sub>50</sub> : 5840mg/L (96h)(Fish)	EC <sub>50</sub> : 2120mg/L (48h)(Crustaceans)	No information available

**Chronic aquatic toxicity**

Component	Fish	Crustaceans	Algae or other aquatic plants
Sodium fluoride	No information available	No information available	NOEC : $\geq$ 210mg/L(Algae)
Potassium nitrate	NOEC : 58mg/L(Fish)	No information available	No information available

**12.2 Persistence and degradability**

Component	Persistence (water/soil)	Persistence (air)
Sodium chloride	Low	Low
Sodium fluoride	Low	Low
Potassium bromide	High	High
Sodium sulphite	Low	Low

**12.3 Bioaccumulative potential**

Component	Bioaccumulative potential	Comments
Sodium chloride	Low	Log Kow=0.5392
Sodium fluoride	Low	BCF=6.4
Potassium bromide	Low	Log Kow=-0.3713
Sodium sulphite	Low	Log Kow=-4

**12.4 Mobility in soil**

Component	log Koc	Remark
Sodium chloride	1.155	
Sodium fluoride	1.155	

Potassium bromide	-1.00	20 °C
Sodium sulphite	0.476	

## 12.5 Results of PBT and vPvB assessment

Component	Results of PBT and vPvB assessment [according to (EC) No 1907/2006]
Sodium chloride	Not PBT/vPvB
Sodium fluoride	Not applicable
Potassium bromide	Not applicable
Potassium dihydrogenorthophosphate	Not applicable
Potassium nitrate	Not applicable
Potassium sulfate	Not applicable
Sodium nitrite	Not applicable
Sodium sulphite	Not applicable
Water	Insufficient information, temporarily unable to evaluate

## 12.6 Endocrine disrupting properties

Component	Endocrine disrupting properties
Sodium chloride	No information available
Sodium fluoride	No information available
Potassium bromide	No information available
Potassium dihydrogenorthophosphate	No information available
Potassium nitrate	No information available
Potassium sulfate	No information available
Sodium nitrite	No information available
Sodium sulphite	No information available
Water	No information available

## 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
Sodium chloride	√	√	√	√	√	√	√	√	√	√	√	√	√
Sodium fluoride	√	√	√	√	√	√	√	√	√	√	√	√	√
Potassium bromide	√	√	√	√	√	√	√	√	√	×	√	√	√
Potassium dihydrogenorthophosphate	√	√	√	√	√	√	√	√	√	√	√	√	√
Potassium nitrate	√	√	√	√	√	√	√	√	√	√	√	√	√
Potassium sulfate	√	√	√	√	√	√	√	√	√	√	√	√	√
Sodium nitrite	√	√	√	√	√	√	√	√	√	√	√	√	√
Sodium sulphite	√	√	√	√	√	√	√	√	√	√	√	√	√
Water	√	√	√	√	√	√	√	√	√	√	√	√	√

【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
Sodium chloride	x	x	x
Sodium fluoride	x	x	x
Potassium bromide	x	x	x
Potassium dihydrogenorthophosphate	x	x	x
Potassium nitrate	x	x	x
Potassium sulfate	x	x	x
Sodium nitrite	x	x	x
Sodium sulphite	x	x	x
Water	x	x	x

- [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
Sodium chloride	x	x	x	√	√	x	x	x	x
Sodium fluoride	x	x	x	√	√	x	x	x	x
Potassium bromide	x	x	x	√	√	x	x	x	x
Potassium dihydrogenorthophosphate	x	x	x	√	√	x	x	x	x
Potassium nitrate	x	x	x	√	√	x	x	x	x
Potassium sulfate	x	x	x	√	√	x	x	x	x
Sodium nitrite	x	x	x	√	√	x	x	x	x
Sodium sulphite	x	x	x	√	√	x	x	x	x
Water	x	x	x	√	x	x	x	x	x

- [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.

“x” No data or not included in the regulations.

### German water hazard class(WGK)

Component	WGK	Remark
Sodium chloride	WGK 1	
Sodium fluoride	WGK 1	
Potassium bromide	WGK 2	
Potassium dihydrogenorthophosphate	WGK 1	
Potassium nitrate	WGK 1	
Potassium sulfate	WGK 1	
Sodium nitrite	WGK 3	
Sodium sulphite	WGK 1	The regular and professional use of this substance for drinking water treatment, surface water remediation or waste water treatment is not restricted by this classification.

- 【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
Sodium chloride	Chapter 5.2.1 Overall Dust, including fine dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values: Mass flow: 0,20 kg/hr or Mass conc.: 20 mg/m <sup>3</sup> The mass per unit volume of 0,15 g/m <sup>3</sup> in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h. For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m <sup>3</sup> .	
Sodium fluoride	Chapter 5.2.2 Inorganic dusts. Class III. Also with the presence of several substances of the same class, the following values are in all not allowed to be exceeded in the exhaust gas: Mass flow: 5 g/hr or Mass conc.: 1 mg/m <sup>3</sup> . Specified as F.Scope: highly soluble fluorides.	

<b>Potassium bromide</b>	Chapter 5.2.1 Overall Dust, including fine dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values:Mass flow:0,20 kg/hr or Mass conc.:20 mg/m <sup>3</sup> The mass per unit volume of 0,15 g/m <sup>3</sup> in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h.For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m <sup>3</sup> .	
<b>Potassium dihydrogenorthophosphate</b>	Chapter 5.2.1 Overall Dust, including fine dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values:Mass flow:0,20 kg/hr or Mass conc.:20 mg/m <sup>3</sup> The mass per unit volume of 0,15 g/m <sup>3</sup> in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h.For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m <sup>3</sup> .	
<b>Potassium nitrate</b>	Chapter 5.2.1 Overall Dust, including fine dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values:Mass flow:0,20 kg/hr or Mass conc.:20 mg/m <sup>3</sup> The mass per unit volume of 0,15 g/m <sup>3</sup> in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h.For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m <sup>3</sup> .	
<b>Potassium sulfate</b>	Chapter 5.2.1 Overall Dust, including fine dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values:Mass flow:0,20 kg/hr or Mass conc.:20 mg/m <sup>3</sup> The mass per unit volume of 0,15 g/m <sup>3</sup> in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h.For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m <sup>3</sup> .	
<b>Sodium nitrite</b>	Chapter 5.2.1 Overall Dust, including fine dust. The emissions of dust in	

	<p>the exhaust gas are not allowed to exceed the following values: Mass flow: 0,20 kg/hr or Mass conc.: 20 mg/m<sup>3</sup> The mass per unit volume of 0,15 g/m<sup>3</sup> in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h. For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m<sup>3</sup>.</p>	
<b>Sodium sulphite</b>	<p>Chapter 5.2.1 Overall Dust, including fine dust. The emissions of dust in the exhaust gas are not allowed to exceed the following values: Mass flow: 0,20 kg/hr or Mass conc.: 20 mg/m<sup>3</sup> The mass per unit volume of 0,15 g/m<sup>3</sup> in exhaust gas is not allowed to be exceeded also on observance or lower deviation of a mass flow of 0,20 kg/h. For emission sources that exceed the mass flow rate of 0.40 kg/h, the mass concentration in waste gas the mass concentration must not exceed 10 mg/m<sup>3</sup>.</p>	

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

Component	TRGS	Remark
<b>Sodium chloride</b>	TRGS 500 TRGS 509 TRGS 510	
<b>Sodium fluoride</b>	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 402 TRGS 401 TRGS 500 TRGS 509 TRGS 510	
<b>Potassium bromide</b>	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 500 TRGS 509 TRGS 510	
<b>Potassium dihydrogenorthophosphate</b>	TRGS 500 TRGS 509 TRGS 510	
<b>Potassium nitrate</b>	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 500 TRGS 509 TRGS 510 TRGS 800	
<b>Potassium sulfate</b>	TRGS 500 TRGS 509 TRGS 510	
<b>Sodium nitrite</b>	TRGS 201 TRGS 400 TRGS 555 TRGS 600 TRGS 500 TRGS 509 TRGS 510 TRGS 800	
<b>Sodium sulphite</b>	TRGS 500 TRGS 509 TRGS 510	
<b>Water</b>	TRGS 500 TRGS 509 TRGS 510	

### 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	2026/01/24
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>.
- [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
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.