Safety Data Sheet

6 Mix anions in water

Version: V2.0.0.1

Report No.: BWZ6853-2016-MSDS-US

Creation Date: 2025/10/16

Revision Date: -



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

1	Identification
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| Product identifier

	1		
Product Name		6 Mix anions in water	
	Cat No.	BWZ6853-2016	
	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, X 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 r	number	010-58103678	

2 Hazard(s) identification

Hazard classification according to 29 CFR 1910.1200

Reproductive Toxicity	Category 1B
Reproductive Toxicity - effects	Additional
on or via lactation	

Label elements

Hazard pictograms	
Signal word	Danger

Ната	ard	state	me	nts
IIazc	ич	State		IILO

<u>•</u>	
H360	May damage fertility or the unborn child
H362	May cause harm to breast-fed children

| 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.
P263	Avoid contact during pregnancy and while nursing.
P264	Wash hands and other parts of the body (if related) thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response

		Response	Not applicable
	Storage		

No information available

Store locked up.

Disposal

Biopodai	
P501	Dispose of contents/container in accordance with local/regional/national/
	international regulations.

Other hazards

Not applicable.

| Hazard description

Physical and chemical hazards

Health hazards		
Inhaled	Inhalation of the product may produce adverse health effects or irritation of the respiratory tract following discomfort.	
	respiratory tractionowing disconnoit.	
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.	

Environmental hazards

Please refer to 12th chapter of SDS.

3 Composition/information on ingredients

P405

Substance/mixture

Mixture

Component	CAS No.	EC No.	Concentration (wt, %)
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Sodium fluoride	7681-49-4	231-667-8	0.1
Sodium chloride	7647-14-5	231-598-3	0.1
Potassium bromide	7758-02-3	231-830-3	0.1
Potassium iodide	7681-11-0	231-659-4	0.1
Potassium sulfate	7778-80-5	231-915-5	0.1
Potassium dihydrogenorthophosphat e	7778-77-0	231-913-4	0.1
Water	7732-18-5	231-791-2	99.4

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

Development of hazardous combustion gases or vapor possible in the event of fire.

May expansion or decompose explosively when heated or involved in fire.

Special protective equipment and precautions for fire-fighters

- As in any fire, wear self-contained breathing apparatus (MSHA/NIOSH approved or equivalent) and full protective gear.
- 2 Fight fire from a safe distance, with adequate cover.

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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.
- 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

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

Methods and materials for containment and cleaning up

- 1 Cut off the source of the leak as much as possible.
- 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.
- Wear suitable protective equipment.
- 3 Avoid contact with skin and eyes.
- 4 Keep away from heat/sparks/open flames/ hot surfaces.

Conditions for safe storage, including any incompatibilities

- 1 Keep containers tightly closed.
- 2 Keep containers in a dry, cool and well-ventilated place.
- 3 Keep away from heat/sparks/open flames/hot surfaces.
- 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
Sodium fluoride	Permissible exposure standards for workers in the workplace	-	2.5 (as F)	-	5 (as F)
	USA - ACGIH	-	2.5(as F)	-	-

	France	-	2	-	-
	South Korea	-	2.5	-	-
Potassium iodide	USA - ACGIH	-	0.01(as iodine, inhalable fraction)	-	-

| 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.

| 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.

Physical and chemical properties and safety characteristics

Set up emergency exit and necessary risk-elimination area.

| Physical and chemical properties

i nysicai and chemicai prope	1100
Appearance (physical state, color, etc.)	Colorless to slightly yellow transparent liquid
Odor	No information available
Odor threshold	No information available
рН	>7 (Basic)
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	No information available
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	No information available
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
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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.
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.
Hazardous decomposition	Under normal conditions of storage and use, hazardous decomposition products
products	should not be produced.

11 Toxicological information

Acute toxicity

Component	LD ₅₀ (oral)	LD ₅₀ (dermal)	LC ₅₀ (inhalation,4h)
Sodium fluoride	180mg/kg(Rat)	No information available	No information available
Potassium bromide	3070mg/kg(Rat)	No information available	No information available
Sodium chloride	3000mg/kg(Rat)	> 10000mg/kg(Rabbit)	No information available
Potassium dihydrogenorthophospha te	No information available	> 4640mg/kg(Rabbit)	No information available
Potassium iodide	2779mg/kg(Rat)	No information available	No information available
Potassium sulfate	6600mg/kg(Rat)	No information available	No information available

Carcinogenicity

Component	List of carcinogens by the IARC Monographs	Report on Carcinogens by NTP	OSHA Carcinogen List
Sodium fluoride	Not Listed	Not Listed	Not Listed
Sodium chloride	Not Listed	Not Listed	Not Listed
Potassium bromide	Not Listed	Not Listed	Not Listed
Potassium iodide	Not Listed	Not Listed	Not Listed
Potassium sulfate	Not Listed	Not Listed	Not Listed
Potassium dihydrogenorthophosphat e	Not Listed	Not Listed	Not Listed
Water	Not Listed	Not Listed	Not Listed

Others

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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 fertility or the unborn child(Category 1B); May cause harm to breast-fed children(Additional)
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
Sodium fluoride	LC ₅₀ : 51mg/L (96h)(Fish)	EC ₅₀ : 98mg/L (48h)(Crustaceans)	ErC ₅₀ : 900mg/L (96h)(Algae)
Potassium bromide	LC ₅₀ :440mg/L (96h)(Fish)	No information available	No information available
Sodium chloride	LC ₅₀ : 5840mg/L (96h)(Fish)	EC ₅₀ : 2120mg/L (48h)(Crustaceans)	No information available
Potassium dihydrogenorthophospha te	LC ₅₀ : > 100mg/L (96h)(Fish)	EC ₅₀ : > 100mg/L (48h)(Crustaceans)	ErC ₅₀ : > 100mg/L (72h)(Algae)
Potassium iodide	LC ₅₀ : > 100mg/L (96h)(Fish)	EC ₅₀ : 7.5mg/L (48h)(Crustaceans)	No information available
Potassium sulfate	LC ₅₀ :680mg/L (96h)(Fish)	No information available	No information available

| Chronic aquatic toxicity

Component	Fish	Crustaceans	Algae or other aquatic
			plants
Sodium fluoride	No information available	No information available	NOEC : ≧ 210mg/L(Algae)
Potassium iodide	NOEC: 66.356mg/L(Fish)	No information available	No information available

| Persistence and degradability

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

| Bioaccumulative potential

Component	Bioaccumulative potential Comments		
Sodium fluoride	Low	BCF=6.4	
Sodium chloride	Low	Log Kow=0.5392	
Potassium bromide	Low	Log Kow=-0.3713	
Potassium iodide	Low	Log Kow=0.0436	

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| Mobility in soil

Component	log Koc	Remark
Sodium fluoride	1.155	
Sodium chloride	1.155	
Potassium bromide	-1.00	20 ℃
Potassium iodide	1.12	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 L	_abel 1	Not app	licable
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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 DA	NGEROUS	GOODS
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UN-ADR

UN-ADR	NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS	
ON-ADIX	NOT REGULATED FOR TRANSFORT OF BANGEROOS 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

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International chemical inventory

Component	Α	В	С	D	Е	F	G	Н	I	J	K	L	M
Sodium fluoride	√	√	√	√	√	√	√	√	√	√	√	√	√
Sodium chloride	√												
Potassium bromide	√	√	√	√	√	√	√	√	√	×	√	√	√
Potassium iodide	√	√	√	√	√	√	√	√	√	√	√	√	√
Potassium sulfate	√	√	√	√	√	√	V	√	√	√	√	√	√
Potassium dihydrogenorthophosphat e	V	√	√	V	V	V	V	V	√	V	V	√	V
Water	√	√	√	√	√	√	V	√	√	√	√	√	√

- [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	Α	В	С
Sodium fluoride	×	×	×
Sodium chloride	×	×	×
Potassium bromide	×	×	×
Potassium iodide	×	×	×
Potassium sulfate	×	×	×
Potassium dihydrogenorthophospha te	×	×	×
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
Sodium fluoride	×	×	√	√	√	V	V	×
Sodium chloride	×	×	×	×	×	×	×	×
Potassium bromide	×	×	×	×	×	×	×	×

Potassium iodide	×	×	×	×	×	×	×	×
Potassium sulfate	×	×	×	×	×	×	×	×
Potassium dihydrogenorthophosph ate	×	×	×	×	×	×	×	×
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	2025/10/16
Revision Date	-
Reason for revision	-

Reference

- $[1] \qquad \text{IPCS: The International Chemical Safety Cards (ICSC), website: http://www.ilo.org/dyn/icsc/showcard.home.} \\$
- [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

C	CAS	Chemical Abstracts Service	UN	The United Nations
P	C-STEL	Short term exposure limit	OECD	Organization for Economic Co-operation and Development
P	C-TWA	Time Weighted Average	IMDG- CODE	International Maritime Dangerous Goods CODE
Ν	1AC	Maximum Allowable Concentration	IARC	International Agency for Research on Cancer
	NEL	Derived No Effect Level	ICAO	International Civil Aviation Organization
Ρ	NEC	Predicted No Effect Concentration	IATA	International Air Transportation Association
Ν	IOEC	No Observed Effect Concentration	ACGIH	American Conference of Governmental Industrial Hygienists
L	.C ₅₀	Lethal Concentration 50%	NFPA	National Fire Protection Association
L	.D ₅₀	Lethal Dose 50%	NTP	National Toxicology Program
Е	C ₅₀	Effective Concentration 50%	PBT	Persistent, Bioaccumulative, Toxic
Е	C _X	Effective Concentration X%	vPvB	very Persistent, very Bioaccumulative
P	ow	Partition coefficient Octanol: Water	CMR	Carcinogens, mutagens or substances toxic to reproduction
В	CF	Bioconcentration factor	RPE	Respiratory Protective Equipment
Е	:D	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

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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.