

# **SAFETY DATA SHEET**

This safety data sheet was created pursuant to the requirements of: US OSHA HCS 2024

Issuing Date 09-Oct-2024 Revision date 11-Jul-2025 Revision Number 6

# 1. Identification

**Product identifier** 

Product Name New Water 90-Day Clarifier

Other means of identification

UN number or ID number UN1759

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Pool Clarifier

Restrictions on use Consumer use

Use only for intended applications

Details of the supplier of the safety data sheet

## **Manufacturer Address**

King Technology, Inc. 6000 Clearwater Dr. Minnetonka, MN 55343 +1 (952) 933-6118

**E-mail** sdsinfo@kingtechnology.com

Emergency telephone number

Emergency telephone CHEMTREC Emergency Tel. #: 1-800-424-9300 (Canada and USA)

# 2. Hazard(s) identification

## Classification of the substance or mixture

Glaconication of the Capetanes of Impirate	
Corrosive to metals	Category 1
Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

#### Hazards not otherwise classified (HNOC)

Not applicable.

# Label elements

Danger



#### **Hazard statements**

May be corrosive to metals.

Causes severe skin burns and eye damage.

## **Precautionary Statements - Prevention**

Do not breathe dust.

Wash face, hands and any exposed skin thoroughly after handling.

Wear protective gloves, protective clothing, eye protection and face protection.

Keep only in original packaging.

## **Precautionary Statements - Response**

Immediately call a POISON CENTER or doctor.

Specific treatment (see supplemental first aid instructions on this label).

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

Wash contaminated clothing before reuse.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Immediately call a POISON CENTER or doctor.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

Absorb spillage to prevent material damage.

## **Precautionary Statements - Storage**

Store locked up.

Store in corrosion resistant container with a resistant inner liner.

#### **Precautionary Statements - Disposal**

Dispose of contents and container in accordance with local, regional, national, and international regulations as applicable.

## Hazards classified under paragraph (d)(1)(ii) of 1910.1200

No information available.

## Other information

Harmful to aquatic life.

# 3. Composition/information on ingredients

#### **Substance**

Chemical name	CAS No.	Weight-%	Trade secret
Aluminum Sulfate	10043-01-3	>55	*

<sup>\*</sup>The exact percentage (concentration) of composition has been withheld as a trade secret.

## 4. First-aid measures

#### Description of first aid measures

#### **General advice**

If exposed or concerned: Get medical advice and attention. Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

**Inhalation** IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. If

breathing is difficult. (trained personnel should) give oxygen. Get immediate medical

attention.

Eye contact IF IN EYES Rinse immediately with plenty of water, also under the eyelids, for at least 15

minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get immediate medical attention.

Skin contact IF ON SKIN: Wash off immediately with soap and plenty of water while removing all

contaminated clothes and shoes. Get immediate medical attention.

**Ingestion** IF SWALLOWED: Rinse mouth. Never give anything by mouth to an unconscious person.

Do NOT induce vomiting. Get immediate medical attention.

Self-protection of the first aider Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid direct contact with skin. Use

barrier to give mouth-to-mouth resuscitation.

Most important symptoms and effects, both acute and delayed

**Symptoms** Skin burns, irreversible damage to eyes, damage to mucous membranes, blistering,

redness, pain. Prolonged contact may cause redness and irritation. Nausea. Headache.

Burning sensation.

Effects of Exposure None known.

Indication of any immediate medical attention and special treatment needed

**Note to physicians** Product is a corrosive material. Use of gastric lavage or emesis is contraindicated.

Possible perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood

pressure may occur with moist rales, frothy sputum, and high pulse pressure.

5. Fire-fighting measures

surrounding environment. Carbon dioxide (CO2). Foam. Dry chemical.

**Unsuitable extinguishing media** CAUTION: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

Cool containers with flooding quantities of water until well after fire is out.

Hazardous combustion products Thermal decomposition can lead to release of irritating and toxic gases and vapors, Sulfur

oxides.

**Explosion data** 

Sensitivity to mechanical impact None. Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear.

Use personal protection equipment.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Attention! Corrosive material. Evacuate personnel to safe

areas. Keep people away from and upwind of spill/leak.

Other information Aluminum Sulfate may absorb moisture, and powders or crystals can solidify into a single

mass. Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

**Methods for containment** Prevent materials or runoff from entering drains, sewers, streams, ground water or bodies of

water

Methods for cleaning up Ensure adequate ventilation. Avoid generation of dust. Avoid breathing dust or spray mist.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

# 7. Handling and storage

#### Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice. Keep container

closed when not in use. Use only in well-ventilated areas. Minimize dust generation and accumulation. Do not breathe dust/fume/gas/mist/vapors/spray. Avoid contact with skin, eyes or clothing. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash

before reuse. In case of inadequate ventilation wear respiratory protection.

General hygiene considerations Handle in accordance with good industrial hygiene and safety practice. Wear suitable

gloves and eye/face protection. Do not eat, drink or smoke when using this product. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands and face before breaks and immediately after handling the

product.

## Conditions for safe storage, including any incompatibilities

Storage Conditions Keep tightly closed in a dry and cool place. Keep away from open flames, hot surfaces and

sources of ignition. Store in original container. Protect from moisture. Store locked up. Keep

out of the reach of children.

# 8. Exposure controls/personal protection

#### **Control Parameters**

## **Exposure Limits**

Chemical name	ACGIH TLV	OSHA PEL	NIOSH
Aluminum Sulfate	-	(vacated) TWA: 2 mg/m <sup>3</sup> Al	TWA: 2 mg/m <sup>3</sup> ; Al
10043-01-3		Aluminum	-

**Note** See section 16 for terms and abbreviations.

Other information on limit values Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

(11th Cir., 1992).

## **Appropriate engineering controls**

Engineering controls Showers

Eyewash stations Ventilation systems.

## Individual protection measures, such as personal protective equipment

Eye/face protection Face protection shield. Tight sealing safety goggles. Wear safety glasses with side shields

(or goggles).

**Hand protection** Chemical resistant gloves. Wear suitable gloves.

**Skin and body protection** Wear appropriate chemical resistant clothing. Wear suitable protective clothing. Chemical

resistant apron.

**Respiratory protection** When inhalation exposure is expected, use NIOSH approved respirator with APF 50 or

greater in accordance with 29 CFR 1910.134.

# 9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance crystalline
Physical state Solid
Color White
Odor (includes odor threshold) Odorless

Property Values Remarks • Method

Melting point / freezing point 88 °C / 190.4 °F Tempature of water of hydration loss

Boiling point (or initial boiling point or No data available

boiling range)

Flammability No data available

Flammability Limit in Air

Upper flammability or explosive limitsNo data availableLower flammability or explosive limitsNo data availableFlash pointNo data availableAutoignition temperatureNo data available

Decomposition temperature

SADT (°C)

pH 3.5 (1% diluted solution)
pH (as aqueous solution)
Kinematic viscosity
No data available
Dynamic viscosity
No data available
Solubility
No data available

Solubility
Water solubility
7.28 lbs./gal. @ 68 °F

Partition coefficient n-octanol/water (log No data available

value)

Vapor pressure (includes evaporation rate)No data availableEvaporation rateNo data availableDensity and/or relative densityNo data available

Bulk density ~65 lbs./ft3

Liquid Density

No data available

Relative vapor density

No data available

Particle characteristics

Particle SizeNo data availableParticle Size DistributionNo data available

Other information

Molecular weightNo information availableVOC contentNo information available

No data available

Softening point No information available

Information with regard to physical hazard classes

**Explosives** 

Explosive properties No information available Oxidizing properties No information available

# 10. Stability and reactivity

**Reactivity** No information available.

Chemical stability Stable at normal ambient temperatures and when used as recommended.

Possibility of hazardous reactions 
None under normal processing.

**Hazardous polymerization**None under normal processing.

**Conditions to avoid** Moisture. Exposure to air or moisture over prolonged periods.

Incompatible materials Strong alkalis, Carbon steel, Moisture, Acids.

Hazardous decomposition products Thermal decomposition or combustion products may include the following substances:,

Aluminum oxides, Sulfur trioxide.

## 11. Toxicological information

## Information on likely routes of exposure

**Product Information** 

**Inhalation**Dusts of this product may cause irritation of the nose, throat, respiratory tract. Corrosive by

inhalation. Inhaled corrosive substances can lead to a toxic edema of the lungs. Pulmonary

edema can be fatal.

**Eye contact** Causes serious eye damage. Corrosive to the eyes and may cause severe damage

including blindness. May cause irreversible damage to eyes.

**Skin contact** Corrosive. Causes burns. Contact with moist skin may cause skin burns.

**Ingestion** May be fatal if swallowed and enters airways. Can burn mouth, throat, and stomach.

Ingestion causes burns of the upper digestive and respiratory tracts. May cause lung

damage if swallowed. Causes burns. Abdominal pain.

Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** Eye damage. May cause blindness. May cause redness and tearing of the eyes. Prolonged

contact may cause redness and irritation. Nausea. Headache. Burning sensation.

**Acute toxicity**Based on available data, the classification criteria are not met.

Numerical measures of toxicity

**Component Information** 

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Aluminum Sulfate 10043-01-3	= 1930 mg/kg (Rat)	> 5000 mg/kg (Rabbit)	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation**Classification based on data available for ingredients. Causes severe skin burns and eye

damage.

Serious eye damage/eye irritation Classification based on data available for ingredients. Causes serious eye damage. Causes

ourns.

**Respiratory or skin sensitization** No information available.

**Germ cell mutagenicity** No information available.

Carcinogenicity No information available.

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure**No information available.

Aspiration hazard No information available.

Other adverse effects No information available.

Interactive effects No information available.

# 12. Ecological information

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Aluminum Sulfate	-	LC50: =27.9mg/L (96h,	-	-
10043-01-3		Pimephales promelas)		

Persistence and degradability No information available.

**Bioaccumulation** No information available.

**Mobility** No information available.

Other adverse effects No information available.

# 13. Disposal considerations

**Disposal methods** 

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

# 14. Transport information

Note: General: In small packages, such as most consumer sizes, the products may be eligible for

limited quantity exceptions. Details depend on package and mode of transport. If shipped in

larger quantities, product is fully regulated as defined below.

DOT

**UN number or ID number** UN1759

**Proper shipping name** Corrosive solids, n.o.s.

Transport hazard class(es) 8
Packing group | || ||

Reportable quantity (lbs)

Reportable quantity (lbs)

Aluminum Sulfate: RQ (lb)= 5000.00

Aluminum Sulfate: RQ (lb)= 8333.00

(calculated)

Reportable quantity (kg) (Aluminum Sulfate: RQ (kg)= 2270.00) Reportable quantity (kg) Aluminum Sulfate: RQ (kg)= 3783.33

(calculated)

Special Provisions 128, IB8, IP3, T1, TP33

**DOT Marine Pollutant** NP

**Description** UN1759, Corrosive solids, n.o.s. (Aluminum Sulfate), 8, III

**Emergency Response Guide** 154

Number

<u>IATA</u>

UN number or ID number UN1759

UN proper shipping name Corrosive solid, n.o.s. IATA Technical Name Aluminum Sulfate

Transport hazard class(es) 8
Packing group III
Environmental hazards No
Special Provisions A3, A803
ERG Code 8L

**Description** UN1759, Corrosive solid, n.o.s. (Aluminum Sulfate), 8, III

**IMDG** 

**UN number or ID number** UN1759

UN proper shipping name Corrosive solid, n.o.s.
Technical Name Aluminum Sulfate

Transport hazard class(es) 8
Packing group III
Marine pollutant indicator NP

Special Provisions 223, 274 F-A S-B

**Description** UN1759, Corrosive solid, n.o.s. (Aluminum Sulfate), 8, III

## 15. Regulatory information

**International Inventories** 

Contact supplier for inventory compliance status

#### **US Federal Regulations**

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

#### SARA 311/312 Hazard Categories

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications.

#### **CWA (Clean Water Act)**

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Aluminum Sulfate 10043-01-3	5000 lb	-	-	Х

#### **CAA (Clean Air Act)**

This product does not contain any substances regulated as pollutants pursuant to Clean Air Act (CAA).

#### **CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302).

Chemical name	Hazardous Substances RQs	Extremely Hazardous Substances RQs
Aluminum Sulfate	5000 lb / 2270 kg (final RQ)	-
10043-01-3		

## **US State Regulations**

# **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Pennsylvania
Aluminum Sulfate	X	X	X
10043-01-3			

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

#### **International Regulations**

The Montreal Protocol on Substances that Deplete the Ozone Layer Not applicable

The Stockholm Convention on Persistent Organic Pollutants Not applicable

The Rotterdam Convention Not applicable

## 16. Other information

NFPAHealth hazards3Flammability1Instability1Special hazards-HMISHealth hazards3Flammability1Physical hazards4Personal protectionD

Key or legend to abbreviations and acronyms used in the safety data sheet

Legend

ACGIH	American Conference of Governmental Industrial Hygienists	
ADN	Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways	
	(Europe)	
ADR	Agreement concerning the International Carriage of Dangerous Goods by Road (Europe)	
AIIC	Australian Inventory of Industrial Chemicals	
ATE	Acute Toxicity Estimate	
ASTM	American Society for the Testing of Materials	
bar	Biological Reference Values for Chemical Compounds in the Work Area	
BAT	Biological tolerance values for occupational exposure	
BEL	Biological exposure limits	
bw	Body weight	
Ceiling	Maximum limit value	
CMR	Carcinogen, Mutagen or Reproductive Toxicant	
DOT	Department of Transportation (United States)	
DSL	Domestic Substances List (Canada)	
EmS	Emergency Schedule	
ENCS	Existing and New Chemical Substances (Japan)	
EPA	U.S. Environmental Protection Agency	
GHS	Globally Harmonized System	
HMIS	Hazardous Materials Identification System	
IARC	International Agency for Research on Cancer	
IATA	International Air Transport Association	
IBC	International Code for the Construction and Equipment of Ships carrying Dangerous	
	Chemicals in Bulk	
ICAO	International Civil Aviation Organization	
IECSC	Inventory of Existing Chemical Substances in China	
IMDG	International Maritime Dangerous Goods	
IMO	International Maritime Organization	
ISO	International Organization for Standardization	
KECI	Korean Existing Chemicals Inventory	
LC50	Lethal Concentration to 50% of a test population	
LD50	Lethal Dose to 50% of a test population (Median Lethal Dose)	
MARPOL	International Convention for the Prevention of Pollution from Ships	
NFPA	National Fire Protection Association	
NIOSH	National Institute for Occupational Safety and Health	
n.o.s.	Not Otherwise Specified	
NOAEC	No Observed Adverse Effect Concentration	
NOAEL	No Observed Adverse Effect Level	
NOELR	No Observable Effect Loading Rate	
NTP	National Toxicology Program (United States)	
NZIoC	New Zealand Inventory of Chemicals	
OECD	Organization for Economic Cooperation and Development	
OEL	Occupational exposure limits	
OSHA	Occupational exposure firms Occupational Safety and Health Administration of the US Department of Labor	
PBT	Persistent, Bioaccumulative and Toxic substance	
PICCS	Philippines Inventory of Chemicals and Chemical Substances	
PMT	Persistent, Mobile and Toxic	
PPE	Personal protective equipment	
QSAR	Quantitative Structure Activity Relationship	
RID	Agreement concerning the International Carriage of Dangerous Goods by Rail (Europe)	
SADT	Self-Accelerating Decomposition Temperature	
SAR	Structure-activity relationship	
SARA	Superfund Amendments and Reauthorization Act	
SDS	Safety Data Sheet	
SL	Surface Limit	

STEL	Short Term Exposure Limit
STOT RE	Specific target organ toxicity - Repeated exposure
STOT SE	Specific target organ toxicity - Single exposure
TCSI	Taiwan Chemical Substance Inventory
TDG	Transport of Dangerous Goods (Canada)
TSCA	Toxic Substances Control Act (United States)
TWA	Time-Weighted Average
UN	United Nations
VOC	Volatile organic compounds
vPvB	Very Persistent and Very Bioaccumulative
vPvM	Very Persistent and Very Mobile
As	Allergenic substance
DS	Dermal Sensitizer
Ot	Ototoxicant
pOt	Ototoxicant - potential to cause hearing disorders
PS	Photosensitizer
RS	Respiratory Sensitizer
S	Sensitizer
poS	Sensitizer - capable of causing occupational asthma
Sa	Simple asphyxiant
Sd	Skin designation
pSd	Skin designation - potential for cutaneous absorption
Sdv	Skin designation - vacated
Sk	Skin notation
dSk	Skin notation - danger of cutaneous absorption
pSk	Skin notation - potential for cutaneous absorption

## Key literature references and sources for data used to compile the SDS

U.S. Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA)

U.S. Environmental Protection Agency

Acute Exposure Guideline Level(s) (AEGL(s))

U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act

U.S. Environmental Protection Agency High Production Volume Chemicals

Food Research Journal

Hazardous Substance Database

International Uniform Chemical Information Database (IUCLID)

Japan GHS Classification

Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS)

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NIOSH (National Institute for Occupational Safety and Health)

National Library of Medicine's ChemID Plus (NLM CIP)

National Library of Medicine's PubMed database (NLM PUBMED)

U.S. National Toxicology Program (NTP)

New Zealand's Chemical Classification and Information Database (CCID)

International Organization for Economic Co-operation and Development (OECD) Environment, Health, and Safety Publications International Organization for Economic Co-operation and Development (OECD) High Production Volume Chemicals Program International Organization for Economic Co-operation and Development (OECD) Screening Information Data Set

United Nations World Health Organization (WHO)

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Revision Note Initial Release.

**Disclaimer** 

**Revision date** 

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the

date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**