

# Klaraid™ AC

# SAFETY DATA SHEET

Preparation Date: 15-Aug-2018

Revision Date: 08-Sep-2021

Revision Number: 2

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

### Product Identifier

Product Name Klaraid™ AC

### Other means of identification

Item#: 2079

Synonyms None

### Recommended use of the chemical and restrictions on use

Recommended use Coagulant for Water Treatment

Uses advised against All other

### Details of the supplier of the safety data sheet

Supplier DeLaval Cleaning Solutions  
11100 N. Congress Ave.  
Kansas City, MO 64153 : 816-891-7700, 8am – 5pm M-F

### Emergency Telephone Number

Chemtrec 1-800-424-9300

## 2. HAZARDS IDENTIFICATION

### Classification

#### OSHA Regulatory Status

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

### Label Elements

#### Emergency Overview

**Appearance** Colorless to lightly colored      **Physical state** Liquid      **Odor** None

#### Hazards not otherwise classified (HNOC)

Avoid contact with skin and eyes. Wear protective gloves/eye protection.

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Aluminum chloride hydroxide (Al <sub>2</sub> Cl(OH) <sub>5</sub> )	12042-91-0	50
Water	7732-18-5	50

If a concentration range is shown, the exact concentration has been withheld as a trade secret.

## 4. FIRST AID MEASURES

### Description of first-aid measures

<b>Eye contact</b>	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
<b>Skin contact</b>	Wash off with warm water and soap. Get medical attention if irritation develops and persists. Remove and wash contaminated clothing and gloves, including the inside, before re-use.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. Get medical advice/attention if you feel unwell.
<b>Ingestion</b>	Do not induce vomiting. Drink 1 or 2 glasses of water. Call a POISON CENTER or doctor if you feel unwell. Never give anything by mouth to an unconscious person.

### Most important symptoms and effects, both acute and delayed

According to our experience and to the information provided to us, the product does not have any harmful effects if it is used and handled as specified.

### Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Non-combustible. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### Unsuitable Extinguishing Media

None known.

### Specific hazards arising from the chemical

Combustion or thermal decomposition will evolve toxic and irritant vapors.

**Sensitivity to static discharge** None.

### Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**NFPA**                      **Health hazards** 1                      **Flammability** 0                      **Instability** 0

## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

Avoid contact with the skin and the eyes. Wear protective gloves/eye protection.

### Environmental Precautions

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Avoid release to the environment.

### Methods and material for containment and cleaning up

Soak up with inert absorbent material. Pick up and transfer to properly labelled containers.

## 7. HANDLING AND STORAGE

### Precautions for Safe Handling

**Handling**                      Handle in accordance with good industrial hygiene and safety practice. Avoid contact with

skin and eyes.

#### Conditions for safe storage, including any incompatibilities

**Storage** Store in a cool dry place. Store at temperatures not exceeding 50°C/ 122°F. Protect from sunlight and store in well-ventilated place.

**Incompatible Materials** Substances that react with water or aluminum

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

#### Control parameters

Only constituents with exposure limits are listed. Any constituent not listed has no known exposure limit.

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Aluminum chloride hydroxide (Al <sub>2</sub> Cl(OH) <sub>5</sub> ) 12042-91-0	2 mg/m <sup>3</sup> (as Al)		-

#### Appropriate engineering controls

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

#### Individual protection measures, such as personal protective equipment

**Eye/face Protection** Wear eye/face protection: Goggles, Face-shield, Safety glasses with side-shields.

**Skin and body protection** Wear protective gloves and protective clothing.

**Respiratory Protection** In case of inadequate ventilation wear respiratory protection.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

<b>Physical state</b>	Liquid	<b>Odor</b>	None
<b>Appearance</b>	Colorless to lightly colored	<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks/ Method</u>
<b>pH</b>	4 - 5	
<b>Melting point/freezing point</b>	-5.5 °C / 22 °F	
<b>Boiling Point/Range</b>	100 °C / 212 °F	
<b>Flash Point</b>	Non-Combustible >	
<b>Evaporation rate</b>	No information available	
<b>Flammability (solid, gas)</b>	No information available	
<b>Flammability Limit in Air</b>		
<b>Upper flammability limit</b>	No information available	
<b>Lower flammability limit</b>	No information available	
<b>Vapor Pressure</b>	Similar to water	
<b>Vapor Density</b>	Similar to water	
<b>Specific Gravity</b>	1.34	
<b>Water Solubility</b>	Miscible with water	
<b>Partition coefficient: n-octanol/water</b>	No information available	
<b>Autoignition Temperature</b>	Non-Combustible	
<b>Decomposition temperature</b>	No information available	
<b>Viscosity of Product</b>	Similar to water	
<b>Dynamic viscosity</b>	No information available	

**Other information**

**Liquid Density** 1.34 g/ml

## 10. STABILITY AND REACTIVITY

**Reactivity**

Stable under normal conditions.

**Chemical Stability**

Stable under normal conditions.

**Possibility of hazardous reactions**

None under normal processing.

**Conditions to Avoid**

Incompatible Materials.

**Incompatible Materials**

Substances that react with water or aluminum

**Hazardous decomposition products**

None known.

## 11. TOXICOLOGICAL INFORMATION

**Principal Routes of Exposure** Eye contact, Skin contact, Ingestion, Inhalation

**Information on likely routes of exposure**

**Eyes** Moderately irritating to the eyes.  
**Skin** Irritating to skin. May cause slight irritation.  
**Ingestion** May be harmful if swallowed.  
**Inhalation** Irritating to respiratory system.

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

**Sensitization** Product is not identified as a sensitizer according to OSHA regulations.  
**Mutagenic effects** Product is not identified as a mutagen according to OSHA regulations.  
**Carcinogenicity** Product is not identified as a carcinogen according to OSHA regulations.

**Reproductive Effects** Product is not identified as having reproductive effects according to OSHA regulations.  
**STOT - single exposure** Product is not identified as having single target organ toxicity (single exposure) according to OSHA regulations.  
**STOT - repeated exposure** Product is not identified as having single target organ toxicity (repeated exposure) according to OSHA regulations.  
**Aspiration Hazard** Product is not identified as an aspiration hazard according to OSHA regulations.

**Numerical measures of toxicity**

If available, toxicity values of individual components are shown below.

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Aluminum chloride hydroxide (Al <sub>2</sub> Cl(OH) <sub>5</sub> ) 12042-91-0	= 9187 mg/kg ( Rat )	> 2000 mg/kg ( Rat )	No data available
Water 7732-18-5	> 90 mL/kg ( Rat )	No data available	No data available

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

If available, ecotoxicity values of individual components are shown below.

Chemical name	Algae/aquatic plants	Fish	Microtox	Waterflea
Aluminum chloride hydroxide (Al <sub>2</sub> Cl(OH) <sub>5</sub> ) 12042-91-0	No data available	100 - 500: 96 h Brachydanio rerio mg/L LC50 static	No data available	No data available

### Persistence and degradability

Not readily biodegradable.

### Bioaccumulation/Accumulation

Does not bioaccumulate.

### Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### **Waste Disposal Method**

Dispose of in accordance with local regulations. Do not allow material to contaminate ground water system. Contact your local waste disposal authority for advice, or pass to a chemical disposal company.

#### **Contaminated Packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.

## 14. TRANSPORT INFORMATION

### DOT

Not regulated

## 15. REGULATORY INFORMATION

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

State Regulations

#### U.S. EPA Label information

**EPA Pesticide registration number** Not applicable

## 16. OTHER INFORMATION

**Preparation Date:** 15-Aug-2018

**Revision Date:** 08-Sep-2021

Revision Note: None

Disclaimer

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 SDS**