Klaraid™ 10 SAFETY DATA SHEET

Preparation Date: 20-Jul-2007 **Revision Date:** 29-Jan-2021 **Revision Number:** 3

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

Product Identifier

Product Name Klaraid™ 10

Other means of identification

Item#: 1768

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended use Water Treatment - Coagulant, Restricted to professional users

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
Tel: 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 Light yellow **Physical state** Liquid **Odor** Slight

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Weight-%
Aluminum chloride hydroxide (Al2Cl(OH)5)	12042-91-0	40 - 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

Eye contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, get medical advice/attention.

Skin contact Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician. Remove and wash contaminated clothing and gloves, including the inside, before re-use.

Inhalation Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

Ingestion Do not induce vomiting. Drink 1 or 2 glasses of water. Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Irritating to eyes. May cause irreversible eye damage. May cause skin irritation and/or dermatitis.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media
No information available.

Specific hazards arising from the chemical
No information available.

Hazardous Combustion Products
Carbon oxides, nitrogen oxides (NOx), chlorine compounds including hydrogen chloride

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. Use personal protective equipment.

Environmental Precautions
Prevent further leakage or spillage if safe to do so.

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. Avoid breathing vapors or mists.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place.

Incompatible Materials metals, bases, strong oxidizing agents

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 (Al2Cl(OH)5) 12042-91-0	2 mg/m³ (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 Tightly fitting safety goggles.

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

Physical state Liquid
Appearance Light yellow
Odor Slight
Odor Threshold No information available

Property	Values	Remarks/ Method
pH	2.5	
Melting point/freezing point	No information available	
Boiling Point/Range	No information available	
Flash Point	No information available	
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air		
Upper flammability limit	No information available	
Lower flammability limit	No information available	
Vapor Pressure	No information available	
Vapor Density	No information available	
Specific Gravity	1.3	
Water Solubility	soluble	
Partition coefficient: n-octanol/water	No information available	
Autoignition Temperature	No information available	
Decomposition temperature	No information available	
Viscosity of Product	No information available	
Dynamic viscosity	No information available	

Other information

Liquid Density 10.9 lb/gal

10. STABILITY AND REACTIVITY

Reactivity
May react with other chemicals. Do not mix with other chemicals except as directed on label.

Chemical Stability
Stable under normal conditions.

Possibility of hazardous reactions
Hazardous polymerization does not occur.

Conditions to Avoid
Extremes of temperature and direct sunlight.

Incompatible Materials
metals, bases, strong oxidizing agents

Hazardous decomposition products
Carbon oxides. nitrogen oxides (NOx). chlorine compounds including hydrogen chloride.

11. TOXICOLOGICAL INFORMATION

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

Information on likely routes of exposure

Eyes	May cause eye irritation.
Skin	May cause skin irritation and/or dermatitis.
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.
Inhalation	Inhalation of mist causes irritation of 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	May cause damage to organs through prolonged or repeated exposure.
Target Organ Effects	Ingestion of large amounts may cause liver and kidney effects, Prolonged inhalation of aluminum chloride hydroxide in laboratory animals causes fibrosis of the lungs.
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 (Al2Cl(OH)5) 12042-91-0	= 9187 mg/kg (Rat)	> 2000 mg/kg (Rat)	No data available

0% of the mixture consists of ingredient(s) of unknown toxicity

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 (Al2Cl(OH)5) 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

No information available.

Bioaccumulation/Accumulation

No information available.

Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method 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

State Regulations

U.S. EPA Label information

EPA Pesticide registration number Not applicable

16. OTHER INFORMATION

Preparation Date: 20-Jul-2007
Revision Date: 29-Jan-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