

in accordance with NBR 14725-4 of ABNT (Brazilian Association of Technical Standards)

CLARIFICANT AND FLOCULANT – CLARI & FLOC

Version 2.0

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1 - IDENTIFICATION	
Product name (Commercial name):	CLARI & FLOC
Main recommended uses for the substance or mixture:	Product for water treatment, flocculator, decanter and water clarifier.
Company name:	CAMP QUÍMICA INDÚSTRIA LTDA
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SECTION 2. DANGER IDENTIFICATION
GHS Classification

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Acute (Oral) toxicity : Category 4

Acute toxicity (dermal) : Category 4

Severe eye injury/eye irritation : Category 2B

Corrosion/irritation of the skin : Category 3

Systemic target organ-specific toxicity - single exposure : Category 3 (Respiratory system)

GHS labelling elements

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Risk icons

:



Warning word

:

Atenção

Danger phrases

:

H302 Harmful when ingested.

H312 Harmful in contact with the skin. H320 Causes eye irritation.

 H316 Provokes moderate irritation of the skin.
 H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

Precautionary phrases

:

Prevention:

P261 Avoid inhaling fog/vapour/aerosols.

P270 Do not eat, drink or smoke while using this product.

P271 Use only outdoors or in well-ventilated areas. P280 Wear eye protection gloves.

Emergency response:

P304 + P340 IN CASE OF INHALATION: Remove the person to a ventilated place and keep him resting in a position that does not hinder breathing.

P302 + P352 IN CONTACT WITH THE SKIN: Wash with plenty of water and soap.

P332 + P313 In case of skin irritation: Consult a doctor.

P362 Remove contaminated clothing.

P305 + P351 + P338 IN CASO OF CONTACT WITH

EYES: Rinse carefully with water for several minutes. If you wear contact lenses, remove them if it is easy. Keep rinsing.

P337 + P313 If eye irritation persists consult a doctor.

P501 Make the arrangement of contents and containers according to the regulations of the site.

Other hazards not resulting in classification.

Unknown.

SECTION 3. COMPOSITION AND INFORMATION ON THE INGREDIENTS

Chemical Nature:

:

Mixture

Dangerous components

Chemical Name	Nº CAS	Concentration (% w/w)
Aluminium Polychloride	1327-41-9	10%

SECTION 4. PRIME-HELP MEASURES

- If inhaled : Move out.
If the victim is unconscious, put her in a resting position and see a doctor.
- In case of contact with the skin : Wash immediately with plenty of water.
Immediately remove all contaminated clothing. Wash contaminated clothing before using it again.
- In case of eye contact : Lave imediatamente com água corrente e também em baixo das pálpebras por, pelo menos, 15 minutos.
Consultar o médico se a irritação se desenvolver e persistir.
- If ingested : Do not cause vomiting. Drink water. Call the doctor immediately.
Never give anything through the mouth to an unconscious person.
- Most important, acute and delayed symptoms and effects : No information available.
- Notes to the doctor : Treat according to the symptoms.

SECTION 5. Fire control measures

- Appropriate extinguishing means : Adjust fire control measures to local conditions and the surrounding environment.
- Specific hazards in firefighting: : Heating or fire can release a toxic gas.
- Métodos específicos de extinção : Closed containers should be vaporized with water.
- Special equipment for the protection of persons involved in firefighting. : Use autonomous breathing equipment in case of fire.
Wear personal protective equipment.

SECTION 6. CONTROL MEASURES FOR LOWING OR LEAKING

- Personal precautions, equipment-protection and emergency procedures : Wear personal protective equipment.
- Environmental precautions : Try to prevent the product from entering the pipelines or waterways.

Methods and materials of containment and cleaning : Control and recover the spilled liquid with a non-fuelable absorbent product, (e.g. sand, earth diatomacea, vermiculite) and place the liquid inside containers for disposal according to local/national regulations (see section 13).

SECTION 7. MANUAL AND STORAGE

Recommendations for safe handling : Do not ingest.
Avoid contact with skin, eyes and clothing.
Avoid inhaling steam or fog.

Hygiene measures : Handle according to good industrial practices of hygiene and safety.

Conditions for safe storage : Keep the container hermetically closed. Store in a well airy place.
To maintain the quality of the product, do not store in heat or under direct sunlight.

Materials to Avoid : See Section 10, "Incompatible Materials".

Other information about storage stability : It does not decompose if stored and used according to the instructions.

SECTION 8. EXPOSITION CONTROL AND INDIVIDUAL PROTECTION

Components with parameters to control in the workplace

Components	Nº CAS	Value type (Exposure shape)	Parâmetros de controle / Concentração permitida	Base
Aluminium Polychloride	1327-41-9	TWA 48HRS (Respirable fraction.)	1 mg/m3	BR OEL
Additional information: Source of the limit value: ACGIH				
		(Respirable fraction.)		ACGIH
		TWA (Respirable fraction.)	1 mg/m3	ACGIH

Personal protective equipment (PPE)

Respiratory protection : Usually, no personal equipment is required breathing protector.

Hand protection

Notes : Waterproof gloves

- Eye protection : Protective glasses with side protection.
- Body and skin protection. : Choose a body protection according to the quantity and concentration of hazardous substances in the workplace.

SECTION 9. Physical and chemical properties

- Appearance : liquid
- CoLOR : yellow
- Smell : data not available
- Smell Limit : data not available
- pH : 3,5 - 4,5
- Melting/freezing point : data not available
- Initial boiling point and range boiling temperature : data not available
- Point of inflammation : data not available
- Evaporation rate : data not available
- Flammability (solid, gas) : data not available
- Flammability (liquids) : data not available
- Upper limit of explosiveness : data not available
- Lower limit of explosiveness : data not available
- steam pressure : data not available
- Relative Density of Steam : data not available
- Relative Density : data not available
- Density : 1,093 - 1,105 g/cm³
- Water solubility : data not available
- Partition coefficient (n-octanol/water) : data not available
- Self-ignition temperature : data not available
- Decomposition temperature : data not available

Viscosity, dynamics : data not available

Viscosity, kinematics : data not available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Does not decompose if stored and used according to the instructions.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Stable under recommended storage conditions.No special risks to mention.

Conditions to be avoided : Heat.

Incompatible materials : Strong
bases
Oxidants

Dangerous decomposition products : Do not decompose when used according to the instructions.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Acute Oral toxicity : DL50: 1.130 mg/kg

Acute toxicity - Inhalation : Observações: dados não disponíveis

Acute toxicity - Dermal : DL50: 1.130 mg/kg

Aspiration hazard

No aspiration toxicity classification

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

data not available

Persistence and degradability

data not available

Bioaccumulative potential

data not available

Mobility on the ground

data not available

Other adverse effects

Additional ecological information : data not available

SECTION 13. Treatment and disposal considerations

Disposal methods

Waste : Make the disposal of contents and containers according to the regulations of the site.

Contaminated packaging : Empty containers must be sent to an approved solid waste disposal site for recycling or disposal.

SECTION 14. TRANSPORT INFORMATION

IATA Non-dangerous goods

UN Number : Not applicable
Appropriate name for boarding : Not applicable
Transport risk class : Not applicable
Packaging Group : Not applicable

IMDG Non-dangerous goods

UN Number : Not applicable
Appropriate name for boarding : Not applicable
Transport risk class : Not applicable
Packaging Group : Not applicable

ADR Non-dangerous goods

UN Number : Not applicable
Appropriate name for boarding : Not applicable
Transport risk class : Not applicable
Packaging Group : Not applicable

Special precautions for users : none

Mass transport in accordance with Annex II to MARPOL 73/78 and IBC Code : Not applicable

15 - INFORMATION ABOUT REGULATIONS

Regulations:

ANTT Resolution No. 5232 of 14 December 2016, Ministry of Transport.
IMDG CODE**16- OTHER INFORMATION**

Important information, but not specifically described in the previous sections.

This FISPQ was developed on the basis of current knowledge on the proper handling of the product and under normal conditions of use, according to the application specified on the packaging. Any other form of use of the product involving its combination with other materials, in addition to different uses than those indicated, are the responsibility of the user. Please note that the handling of any chemical substance requires prior knowledge of its dangers by the user. In the workplace it is up to the company that uses the product to promote the training of its employees on the possible risks arising from exposure to the chemical.

FISPQ prepared in December 2020.