910 - CALCIUM STAIN REMOVER

Revision Date 31.03.2023

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

- Trade name 910 - CALCIUM STAIN REMOVER

1.2 Relevant identified uses of the substance or mixture and uses advised against

Uses of the Substance/Mixture

- Glass polishing.
- Ceramics.
- Manufacture of pulp, paper and paper products
- Manufacture of wood and wood products
- Formulation [mixing] of preparations and/ or re-packaging (excluding alloys)
- Manufacture of other non-metallic mineral products, e.g. plasters, cement
- Manufacture of computer, electronic and optical products, electrical equipment

1.3 Details of the supplier of the safety data sheet

Company

PROYACHT SARL
460 AV DE LA QUIERA- 213 VOIE E
06370 MOUANS SARTOUX
FRANCE
+33 (0)4 93 22 98 65

E-mail address

contact@proyacht.fr

1.4 Emergency telephone number

+44(0)1235 239 671 [CareChem 24]

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SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification (UN)

- Not a hazardous product according to Globally harmonized System (GHS)

2.2 Label elements

GHS label elements (UN)

- Not a hazardous product according to Globally harmonized System (GHS)

2.3 Other hazards which do not result in classification

- Slightly irritating to eyes.
- NO particular fire or explosion hazard.

SECTION 3: Composition/information on ingredients

3.1 Substance

- Not applicable, this product is a mixture.

3.2 Mixture

- Chemical nature: Mixture based on rare earth(s) compound(s)

Information on Components and Impurities

Chemical name	CAS-No.	GHS Classification	Concentration [%]
Lanthanum Fluoride	CAS-No. : 13709-38-1	Not classified	>= 5 - < 10
Non-hazardous ingredients			
Cerium Dioxide	CAS-No. : 1306-38-3	Not classified	70 - 80
Lanthanum Oxide	CAS-No. : 1312-81-8	Not classified	10 - 20

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice

- Show this safety data sheet to the doctor in attendance.

In case of inhalation

- If breathed in, move person into fresh air.
- If symptoms persist, call a physician.

In case of skin contact

- Wash off with soap and water.
- If skin irritation persists, call a physician.

In case of eye contact

- Rinse with running water whilst keeping the eyes wide open (at least 15 minutes)
- If eye irritation persists, consult a physician

In case of ingestion

- If swallowed
- Do NOT induce vomiting.
- Rinse mouth with water.
- Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

- no data available

4.3 Indication of any immediate medical attention and special treatment needed

- no data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

- Water
- Foam
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Unsuitable extinguishing media

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

5.2 Special hazards arising from the substance or mixture

- Not combustible.

5.3 Advice for firefighters

Special protective equipment for firefighters

- Gloves
- In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit.

Specific fire fighting methods

- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Respirator with a particle filter (EN 143)
- Wear suitable gloves.
- Safety glasses

6.2 Environmental precautions

- No harmful effect to the environment is known or expected under normal conditions of use.

6.3 Methods and materials for containment and cleaning up

Recovery

- Sweep up and shovel into suitable containers for disposal.
- Keep in properly labelled containers.

Decontamination/cleaning

- Wash off with plenty of water.

Disposal

- Dispose of contents/ container to an approved waste disposal plant.

Methods for containment

- Dam up.

6.4 Reference to other sections

- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 13. DISPOSAL CONSIDERATIONS

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Provide sufficient air exchange and/or exhaust in work rooms.
- Dust must be extracted directly at the point of origin.
- Avoid contact with skin and eyes.
- Do not breathe vapours/dust.
- Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.

- Provide sufficient air exchange and/or exhaust in work rooms.
- Dust must be extracted directly at the point of origin.
- Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces.
- Avoid contact with skin and eyes.
- Do not breathe vapours/dust.

Hygiene measures

- Handle in accordance with good industrial hygiene and safety practice.
- Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Technical measures/Storage conditions

- Keep in properly labelled containers.

- Keep in properly labelled containers.

- Stable under normal conditions.
- To guarantee the quality and properties of the product keep :
- Keep containers tightly closed in a dry, cool and well-ventilated place.
- Keep away from open flames, hot surfaces and sources of ignition.
- Keep away from incompatible materials to be indicated by the manufacturer

- Stable under normal conditions.
- To guarantee the quality and properties of the product keep :
- Keep container tightly closed and dry.

- Keep away from: No special restrictions on storage with other products.

Packaging material

Suitable material
- Plastic materials (polyethylene).

Unsuitable material
- None known.

Remarks
- Store in original container.

Requirements for storage rooms and vessels

- Stable under recommended storage conditions.

7.3 Specific end use(s)

- no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Components with other occupational exposure limits

Components	Value type	Value	Basis
Lanthanum Fluoride	TWA	2.5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)
	Expressed as :Fluorine		

Lanthanum Fluoride	TWA Expressed as :Fluorine	2.5 mg/m3	USA. ACGIH Threshold Limit Values (TLV)

Biological Exposure Indices

Components	Value type	Value	Basis
Lanthanum Fluoride	BEI Nonspecific Background	2 mg/l Fluoride Urine Prior to shift (16 hours after exposure ceases)	ACGIH - Biological Exposure Indices (BEI)
Lanthanum Fluoride	BEI Nonspecific Background	3 mg/l Fluoride Urine End of shift (As soon as possible after exposure ceases)	ACGIH - Biological Exposure Indices (BEI)

8.2 Exposure controls

Control measures

Engineering measures

- Apply technical measures to comply with the occupational exposure limits.
- Local exhaust
- Dust must be extracted directly at the point of origin.

Individual protection measures

Respiratory protection

- Use a respirator with an approved filter if a risk assessment indicates this is necessary.
- Respirator with a particle filter (EN 143)

Hand protection

- For prolonged or repeated contact use protective gloves.

Eye protection

- In case of contact through splashing:
- Safety glasses

Skin and body protection

- Long sleeved clothing
- Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

- Handle in accordance with good industrial hygiene and safety practice.
- Wash hands before breaks and at the end of workday.

Protective measures

- The protective equipment must be selected in accordance with current CEN standards and in cooperation with the supplier of the protective equipment.
- Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards and/or risks that may occur during use.

Environmental exposure controls

- No harmful effect to the environment is known or expected under normal conditions of use.

- No harmful effect to the environment is known or expected under normal conditions of use.
- Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	solid
Form	powder
Colour	light cream
Odour	None
Odour Threshold	No data available
Melting point/freezing point	Melting point/range: 2,600 °C
Initial boiling point and boiling range	No data available
Flammability (solid, gas)	No data available
Flammability (liquids)	No data available
Flammability/Explosive limit	Lower flammability/explosion limit: Not applicable, solid Upper flammability/explosion limit: Not applicable, solid
Flash point	Not applicable mineral product
Auto-ignition temperature	No data available
Decomposition temperature	No data available
pH	Not applicable insoluble product
Viscosity	Viscosity, dynamic : No data available, solid Viscosity, kinematic : Not applicable, solid
Solubility	Water solubility: practically insoluble Solubility in other solvents: common organic solvents: insoluble
Partition coefficient: n-octanol/water	No data available
Vapour pressure	Not applicable

Density	No data available
Relative density	6.8 (25 °C)
Relative vapor density	Not applicable
Particle characteristics	Particle size: < 5 µm
Evaporation rate (Butylacetate = 1)	Not applicable

9.2 Other information

Oxidizing properties	No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

- Stable under recommended storage conditions.

10.2 Chemical stability

- Stable under normal conditions.

10.3 Possibility of hazardous reactions

- Difficult to dissolve in acids. Carry out with caution (consult us).

polymerisation

- Hazardous polymerisation does not occur.

10.4 Conditions to avoid

- No dangerous reaction known under conditions of normal use.
- Avoid dust formation.
- Avoid excessive heat for prolonged periods of time.

10.5 Incompatible materials

- No dangerous reaction known with common products.
- Strong acids

10.6 Hazardous decomposition products

- No hazardous decomposition products are known.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity	Not classified as hazardous for acute oral toxicity according to GHS. According to the available data on the constituents According to the classification criteria for mixtures. Unpublished reports Published data
Acute inhalation toxicity	Not classified as hazardous for acute inhalation toxicity according to GHS. According to the available data on the constituents According to the classification criteria for mixtures. Unpublished reports Published data

Acute dermal toxicity	Not classified as hazardous for acute dermal toxicity according to GHS. According to the available data on the constituents According to the classification criteria for mixtures. Unpublished reports Published data
Acute toxicity (other routes of administration)	Not applicable
Skin corrosion/irritation	Not classified as irritating to skin According to the available data on the constituents According to the classification criteria for mixtures. Unpublished reports Published data
Serious eye damage/eye irritation	Not classified as irritating to eyes According to the available data on the constituents According to the classification criteria for mixtures. Unpublished reports Published data
Respiratory or skin sensitisation	Does not cause skin sensitisation. According to the available data on the components According to the classification criteria for mixtures. Unpublished reports Published data

Mutagenicity

Genotoxicity in vitro	Product is not considered to be genotoxic According to the available data on the components According to the classification criteria for mixtures. Unpublished reports Published data
Genotoxicity in vivo	Product is not considered to be genotoxic According to the available data on the components According to the classification criteria for mixtures. Unpublished reports Published data
Carcinogenicity	The product is not considered to be carcinogenic. According to the available data on the components According to the classification criteria for mixtures. Unpublished reports Published data

Toxicity for reproduction and development

Toxicity to reproduction/Fertility	The product is not considered to affect fertility., According to the available data on the components, According to the classification criteria for mixtures., Unpublished reports, Published data
Developmental Toxicity/Teratogenicity	The product is not considered to be toxic for development., According to the available data on the components, According to the classification criteria for mixtures., Unpublished reports, Published data

STOT

STOT - single exposure	The substance or mixture is not classified as specific target organ toxicant, repeated exposure according to GHS criteria. According to the classification criteria for mixtures., Unpublished reports, Published data

STOT - repeated exposure	The substance or mixture is not classified as specific target organ toxicant, repeated exposure according to GHS criteria. According to the classification criteria for mixtures., Unpublished reports, Published data The product itself has not been tested.
Experience with human exposure	No data available
Aspiration toxicity	No aspiration toxicity classification, According to the available data on the components, According to the classification criteria for mixtures., internal evaluation

SECTION 12: Ecological information

12.1 Toxicity

Aquatic Compartment

Acute toxicity to fish	The product itself has not been tested.
Acute toxicity to daphnia and other aquatic invertebrates	The product itself has not been tested.
Toxicity to aquatic plants	The product itself has not been tested.
Toxicity to microorganisms	The product itself has not been tested.
Chronic toxicity to fish	The product itself has not been tested.
Chronic toxicity to daphnia and other aquatic invertebrates	The product itself has not been tested.

Sediment compartment

Toxicity to benthic organisms	The product itself has not been tested.

Terrestrial Compartment

Toxicity to soil dwelling organisms	The product itself has not been tested.
Toxicity to terrestrial plants	The product itself has not been tested.
Toxicity to above ground organisms	The product itself has not been tested.

12.2 Persistence and degradability

Abiotic degradation

Stability in water	Conclusion is not possible for a mixture as a whole.
Photodegradation	Conclusion is not possible for a mixture as a whole.
Other Physico-Chemical reactions	Conclusion is not possible for a mixture as a whole.

Physical- and photo-chemical elimination

Physico-chemical removability	Conclusion is not possible for a mixture as a whole.

Biodegradation

Biodegradability	As (bio)degradability is not relevant for mixtures, all the components of the mixture were assessed individually (rapid degradability assessment available below).

Ratio BOD/COD	Conclusion is not possible for a mixture as a whole.
Ratio BOD/ThOD	Conclusion is not possible for a mixture as a whole.
Biochemical Oxygen Demand (BOD)	Conclusion is not possible for a mixture as a whole.
Dissolved organic carbon (DOC)	Conclusion is not possible for a mixture as a whole.
Chemical Oxygen Demand (COD)	Conclusion is not possible for a mixture as a whole.
Adsorbed organic bound halogens (AOX)	Conclusion is not possible for a mixture as a whole.
Degradability assessment	Not applicable, mixture of inorganic substances

12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water	Not applicable, mixture of inorganic substances
Bioconcentration factor (BCF)	Rare earths do not biomagnify in the aquatic food chains due to (i) the existence of internal regulatory mechanisms in living organisms and (ii) the decrease of bioaccumulation factors when ascending the food chains. Expert judgement and weight of evidence determination. Published data

12.4 Mobility in soil

Adsorption potential (Koc)	Conclusion is not possible for a mixture as a whole.
Known distribution to environmental compartments	Ultimate destination of the product : Soil internal evaluation Ultimate destination of the product : Sediment

12.5 Results of PBT and vPvB assessment Remark(s): Not applicable, mixture of inorganic substances

12.6 Other adverse effects

Ecotoxicity assessment

Short-term (acute) aquatic hazard	According to the available data on the components No acute environmental hazard identified According to the classification criteria for mixtures. Unpublished reports
Long-term (chronic) aquatic hazard	According to the available data on the components No chronic environmental hazard identified. According to the classification criteria for mixtures. Unpublished reports

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product Disposal

- Dispose of contents/ container to an approved waste disposal plant.
- Dispose of in accordance with local regulations.

Advice on cleaning and disposal of packaging

- Clean with cold water.
- Dispose of contents/ container to an approved waste disposal plant.

- Dispose of in accordance with local regulations.

SECTION 14: Transport information

IMDG
not regulated

IATA
not regulated

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transport regulations for hazardous materials, it would be advisable to check their validity with your sales office.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Local regulations

No data available

Notification status

Inventory Information	Status
United States TSCA Inventory	- All substances listed as active on the TSCA inventory
Canadian Domestic Substances List (DSL)	- Listed on Inventory
Australian Inventory of Industrial Chemicals (AIIC)	- Listed on Inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- Listed on Inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- Listed on Inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed on Inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- One or more components not listed on inventory
Taiwan Chemical Substance Inventory (TCSI)	- Listed on Inventory
New Zealand. Inventory of Chemical Substances	- All components are listed on the NZIoC inventory. Additional HSNO obligations may apply. Please refer to Section 15 of SDS for New Zealand.
EU. European Registration, Evaluation, Authorization and Restriction of Chemical (REACH)	- When purchased from a Solvay legal entity based in the EEA (""European" "Economic Area""), this product is compliant with the registration" provisions of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt, and/or registered. When purchased from a legal entity outside of the EEA, please contact your local

representative for additional information.

SECTION 16: Other information

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

- TWA: 8-hour, time-weighted average
- ADR: European Agreement on International Carriage of Dangerous Goods by Road.
- ADN: European Agreement on the International Carriage of Dangerous Goods by Inland Waterways.
- RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
- IATA: International Air Transport Association.
- ICAO-TI: Technical Instructions for Safe Transport of Dangerous Goods by Air.
- IMDG: International Maritime Dangerous Goods.
- TWA: Time weighted average
- ATE: Estimated value of acute toxicity
- EC: European Community number
- CAS: Chemical Abstracts Service.
- LD50: Substance that causes 50% (half) death in the test animals group (Median Fatal Dose).
- LC50: Substance concentration causing 50% (half) death in the test animals group.
- EC50: Effective Concentration of the substance causing the maximum of 50%.
- PBT: Persistent, Bioaccumulative and Toxic substance.
- vPvB: Very Persistent and Very Bioaccumulative.
- GHS/CLP/SEA: Classification, labeling, packaging regulation
- DNEL: Derived No Effect Level
- PNEC: Predicted No Effect Concentration
- STOT: Specific Target Organ Toxicity

Not all acronyms listed above are referenced in this SDS.

Further information

- Distribute new edition to clients

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. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.