



# IMERYS

Revision date 09-Dec-2022

Revision Number 1

## 1. Identification

### Product identifier

**Product Name** Celite 610

### Other means of identification

**Synonyms**

- Natural Diatomaceous Earth
- Amorphous Silica
- Kieselguhr
- Diatomite

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

**Recommended use** Insecticide

**Restrictions on use** Food ingredient.

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

#### Supplier Address

Imerys Almería, S.A. de C.V.  
José Antonio Torres No. 400 Gral. Andrés Figueroa  
C.P. 45765 Zacoalco de Torres , Mexico  
+52 326 434 0000

### Emergency telephone number

**Company Phone Number** +1-770-645-3300

**Emergency Telephone** CHEMTREC Mexico 800 681 9531  
CHEMTREC International Number: +1 703-741-5970

## 2. Hazard(s) identification

### Classification

Specific target organ toxicity (repeated exposure)

Not classified

**Appearance** Powder

**Physical state** Solid

**Odor** Odorless

### Label elements

**None**

**Hazard statements**

**Precautionary Statements - Prevention**

Do not breathe dusts or mists  
Do not eat, drink or smoke when using this product  
In case of inadequate ventilation wear respiratory protection

**Precautionary Statements - Response**

Get medical advice/attention if you feel unwell

**Precautionary Statements - Storage**

Store in a dry place. Store in a closed container  
Store in a well-ventilated place

**Precautionary Statements - Disposal**

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

**Other information**

Repeated and prolonged exposure to large amounts of dust can cause lung injury (pneumoconiosis).

### 3. Composition/information on ingredients

**Substance**

**Synonyms** Natural Diatomaceous Earth. Amorphous Silica. Kieselguhr. Diatomite.

| Chemical name      | CAS No     | Weight-% | Hazardous Material Information Review Act registry number (HMIRA registry #) | Date HMIRA filed and date exemption granted (if applicable) |
|--------------------|------------|----------|------------------------------------------------------------------------------|-------------------------------------------------------------|
| Diatomaceous Earth | 61790-53-2 | 100      | -                                                                            | -                                                           |

**Composition Comments**

The Environmental Protection Agency (EPA) has listed this product as a UVCB substance (Unknown or Variable Composition, complex reaction products or of biological materials).

### 4. First-aid measures

**Description of first aid measures**

**General advice** No acute or delayed symptoms are expected under normal conditions of use and with proper personal protective equipment (PPE). Do not breathe dust. Get medical attention if irritation or other symptoms occur.

**Inhalation** Move victim to fresh air.

**Eye contact** Rinse eyes. Keep eye wide open while rinsing.

**Skin contact** Wash with soap and water. In the case of skin irritation or allergic reactions see a physician.

**Ingestion** Not an expected route of exposure. Clean mouth with water. Never give anything by mouth to an unconscious person.

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

**Symptoms** No acute or delayed symptoms are expected under normal conditions of use and with proper personal protective equipment (PPE).

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

**Note to physicians** Treat symptomatically.

### 5. Fire-fighting measures

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the

|                                                                       |                                                                                                                                    |
|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
|                                                                       | surrounding environment.                                                                                                           |
| <b>Large Fire</b>                                                     | CAUTION: Use of water spray when fighting fire may be inefficient.                                                                 |
| <b>Unsuitable extinguishing media</b>                                 | Do not scatter spilled material with high pressure water streams.                                                                  |
| <b>Specific hazards arising from the chemical</b>                     | No information available.                                                                                                          |
| <b>Hazardous combustion products</b>                                  | None.                                                                                                                              |
| <b>Explosion data</b>                                                 |                                                                                                                                    |
| <b>Sensitivity to mechanical impact</b>                               | None.                                                                                                                              |
| <b>Sensitivity to static discharge</b>                                | None.                                                                                                                              |
| <b>Special protective equipment and precautions for fire-fighters</b> | 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

|                             |                                                                                                                                                                                                                                                                                   |
|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b> | Avoid generation of dust. Do not breathe dust. If respirator is required, use of a MSHA/OSHA/NIOSH/STPS approved respirator is recommended. Spilled materials may cause slippery conditions when wet. Care should be exercised when walking on spills on floors or concrete pads. |
| <b>Other information</b>    | Refer to protective measures listed in Sections 7 and 8.                                                                                                                                                                                                                          |

### Methods and material for containment and cleaning up

|                                |                                                                                                                                                                                                                                                             |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methods for containment</b> | Keep out of drains, sewers, ditches and waterways.                                                                                                                                                                                                          |
| <b>Methods for cleaning up</b> | Avoid dry sweeping and use water spraying or vacuum cleaning systems to prevent airborne dust generation. Vacuum, pump or scoop spilled material into containers for reclaiming or disposal. Do not discharge into drains, watercourses or onto the ground. |

## 7. Handling and storage

### Precautions for safe handling

|                                |                                                                                                                                                                                                                                                                                                                                |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Advice on safe handling</b> | Avoid generation of dust. Do not breathe dust. Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Product on floor when wetted will become slippery and may present a hazard; wear anti-slip boots. |
|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Conditions for safe storage, including any incompatibilities

|                           |                                                                          |
|---------------------------|--------------------------------------------------------------------------|
| <b>Storage Conditions</b> | Keep containers tightly closed in a dry, cool and well-ventilated place. |
|---------------------------|--------------------------------------------------------------------------|

## 8. Exposure controls/personal protection

### Control parameters

#### Exposure Limits

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH |
|---------------|-----------|----------|-------|
|---------------|-----------|----------|-------|

|                                  |         |                                                                                                                                                    |         |              |
|----------------------------------|---------|----------------------------------------------------------------------------------------------------------------------------------------------------|---------|--------------|
| Diatomaceous Earth<br>61790-53-2 | **      | TWA: 20 mppcf<br>TWA: (80)/( % SiO2) mg/m³<br>(vacated) TWA: 6 mg/m³<br>Silica, amorphous <1%<br>Crystalline silica<br>: (80)/( % SiO2) mg/m ³ TWA | -       |              |
| Chemical name                    | Alberta | British Columbia                                                                                                                                   | Ontario | Quebec       |
| Diatomaceous Earth<br>61790-53-2 |         | TWA: 4 mg/m³<br>TWA: 1.5 mg/m³                                                                                                                     |         | TWA: 6 mg/m³ |

**Other information**

\*\* No TLV established. It is recommended that airborne concentrations be kept below 3 mg/m<sup>3</sup> (respirable particles) and 10 mg/m<sup>3</sup> (inhalable particles) for insoluble particles of low toxicity for which no TLV has been established. See Appendix B of the TLV booklet for guidelines.

**Appropriate engineering controls****Engineering controls**

Minimize airborne dust generation. Ensure adequate ventilation, especially in confined areas. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. Use proper respiratory and personal protective equipment. MSHA/OSHA/NIOSH/STPS approved respirator recommended.

**Individual protection measures, such as personal protective equipment****Eye/face protection**

Wear safety glasses with side shields (or goggles).

**Hand protection**

Wear suitable gloves. Appropriate protection (e.g. gloves, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin.

**Skin and body protection**

Wear suitable protective clothing.

**Respiratory protection**

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Environmental exposure controls**

Avoid creating dust. Do not allow into any sewer, on the ground or into any body of water.

**General hygiene considerations**

Do not breathe dust. Wash hands before breaks and immediately after handling the product. Barrier creams may help to protect the exposed areas of skin. Do not eat, drink or smoke when using this product.

## 9. Physical and chemical properties

**Information on basic physical and chemical properties**

|                |                |
|----------------|----------------|
| Physical state | Solid          |
| Appearance     | Powder         |
| Color          | beige          |
| Odor           | Odorless       |
| Odor threshold | Not applicable |

| Property                                | Values              | Remarks • Method    |
|-----------------------------------------|---------------------|---------------------|
| pH                                      | 6 - 10              | 10% slurry in water |
| Melting point / freezing point          | > 1710 °C / 3110 °F |                     |
| Initial boiling point and boiling range | > 2230 °C / 4046 °F |                     |
| Flash point                             | No data available   | Not applicable      |
| Evaporation rate                        | No data available   | Not applicable      |
| Flammability                            | No data available   | Not flammable       |
| Flammability Limit in Air               |                     | Non-explosive       |
| Upper flammability or explosive limits  | No data available   |                     |

|                                               |                    |                   |
|-----------------------------------------------|--------------------|-------------------|
| <b>Lower flammability or explosive limits</b> | No data available  |                   |
| <b>Vapor pressure</b>                         | No data available  | Not applicable    |
| <b>Relative vapor density</b>                 | No data available  | Not applicable    |
| <b>Relative density</b>                       | 2.3                | g/cm <sup>3</sup> |
| <b>Water solubility</b>                       | Insoluble in water |                   |
| <b>Solubility in other solvents</b>           | No data available  |                   |
| <b>Partition coefficient</b>                  | No data available  | Not applicable    |
| <b>Autoignition temperature</b>               | No data available  | Not applicable    |
| <b>Decomposition temperature</b>              |                    | Not applicable    |
| <b>Kinematic viscosity</b>                    | No data available  | Not applicable    |
| <b>Dynamic viscosity</b>                      | No data available  | Not applicable    |

**Other information**

|                             |                                                       |
|-----------------------------|-------------------------------------------------------|
| <b>Explosive properties</b> | No explosive properties predicted from the structure. |
| <b>Oxidizing properties</b> | No oxidizing properties predicted from the structure. |
| <b>Softening point</b>      | No information available                              |
| <b>Molecular weight</b>     | No information available                              |
| <b>VOC content</b>          | Not applicable                                        |
| <b>Liquid Density</b>       | No information available                              |
| <b>Bulk density</b>         | No information available                              |

**10. Stability and reactivity**

|                                           |                                                                                                                               |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| <b>Reactivity</b>                         | Stable.                                                                                                                       |
| <b>Chemical stability</b>                 | Stable under normal conditions.                                                                                               |
| <b>Possibility of hazardous reactions</b> | None under normal processing.                                                                                                 |
| <b>Hazardous polymerization</b>           | None under normal processing.                                                                                                 |
| <b>Conditions to avoid</b>                | Avoid contact with hydrofluoric acid (HF).                                                                                    |
| <b>Incompatible materials</b>             | Hydrofluoric acid.                                                                                                            |
| <b>Hazardous decomposition products</b>   | None under normal use conditions.<br>Silicon tetrafluoride (SiF <sub>4</sub> ) will form upon contact with hydrofluoric acid. |

**11. Toxicological information****Information on likely routes of exposure**

|                     |                                                                                                                                                                          |
|---------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | Dust in high concentrations may irritate the respiratory system. Frequent inhalation of dust over a long period of time increases the risk of developing pneumoconiosis. |
| <b>Eye contact</b>  | May cause irritation.                                                                                                                                                    |
| <b>Skin contact</b> | Prolonged or repeated contact may dry skin and cause irritation.                                                                                                         |
| <b>Ingestion</b>    | May cause irritation. Not an expected route of exposure.                                                                                                                 |

**Symptoms related to the physical, chemical and toxicological characteristics**

|                 |          |
|-----------------|----------|
| <b>Symptoms</b> | Unknown. |
|-----------------|----------|

**Acute toxicity**

**Numerical measures of toxicity**  
No information available

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

|                                          |                                                                                                                                                                                                                                                                  |
|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Skin corrosion/irritation</b>         | Prolonged contact may cause dryness of the skin.                                                                                                                                                                                                                 |
| <b>Serious eye damage/eye irritation</b> | Particles in the eyes may cause irritation and smarting.                                                                                                                                                                                                         |
| <b>Respiratory or skin sensitization</b> | Repeated or prolonged contact may cause allergic reactions in very susceptible persons. Dust in high concentrations may irritate the respiratory system. Frequent inhalation of dust over a long period of time increases the risk of developing pneumoconiosis. |
| <b>Germ cell mutagenicity</b>            | None known.                                                                                                                                                                                                                                                      |
| <b>Carcinogenicity</b>                   | See section 2 for classified hazards based on component information.                                                                                                                                                                                             |

The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical name                    | ACGIH | IARC    | NTP | OSHA |
|----------------------------------|-------|---------|-----|------|
| Diatomaceous Earth<br>61790-53-2 | -     | Group 3 | -   | X    |

**Legend**

**ACGIH (American Conference of Governmental Industrial Hygienists)**

A2 - Suspected Human Carcinogen

**IARC (International Agency for Research on Cancer)**

Group 1 - Carcinogenic to Humans

**NTP (National Toxicology Program)**

Known - Known Carcinogen

**OSHA (Occupational Safety and Health Administration of the US Department of Labor)**

X - Present

|                                 |                 |
|---------------------------------|-----------------|
| <b>Reproductive toxicity</b>    | Not classified. |
| <b>STOT - single exposure</b>   | Not classified. |
| <b>STOT - repeated exposure</b> | Not classified. |
| <b>Target organ effects</b>     | Lungs.          |
| <b>Aspiration hazard</b>        | Not classified. |

**12. Ecological information**

|                                      |                                                                                                                                                 |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ecotoxicity</b>                   | The product components are not classified as environmentally hazardous. Large or frequent spills may have hazardous effects on the environment. |
| <b>Persistence and degradability</b> | Not readily biodegradable.                                                                                                                      |
| <b>Bioaccumulation</b>               | None known.                                                                                                                                     |
| <b>Mobility in soil</b>              | Not expected to adsorb on soil.                                                                                                                 |
| <b>Other adverse effects</b>         | No information available.                                                                                                                       |

**13. Disposal considerations****Disposal methods**

|                                            |                                                                                                          |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------|
| <b>Waste from residues/unused products</b> | Dispose of contents/ container to an approved landfill. Dispose of in accordance with local regulations. |
|--------------------------------------------|----------------------------------------------------------------------------------------------------------|

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

## 14. Transport information

**DOT** Not regulated  
**TDG** Not regulated  
**MEX** Not regulated  
**ICAO (air)** Not regulated  
**IATA** Not regulated  
**IMDG** Not regulated  
**RID** Not regulated  
**ADR** Not regulated  
**ADN** Not regulated

## 15. Regulatory information

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

#### 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

#### International Inventories

**TSCA** The product is a naturally occurring mineral and is included in the scope of the TSCA inventory per 40 CFR 710.4(b).

| Chemical name      | CAS No     | US TSCA Inventory listing | US TSCA inactive/active designation |
|--------------------|------------|---------------------------|-------------------------------------|
| Diatomaceous Earth | 61790-53-2 | Present                   | Active                              |

#### **DSL/NDSL**

Listed on NDSL. Exempt from Canadian NDSL New Substances Notification Regulations because it is defined as naturally occurring, and either unprocessed or processed only by manual, mechanical or gravitational means; by dissolution in water; by flotation; or by heating solely to remove water; or extracted from air by any means.

#### **EINECS/ELINCS**

**ENCS**

Listed.

**IECSC**

Listed.

**KECL**

Listed.

**PICCS**

Listed.

**AIIC**

Listed.

**NZIoC**

Listed.

**TSCI**

Listed.

**Legend:****TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances**ENCS** - Japan Existing and New Chemical Substances**IECSC** - China Inventory of Existing Chemical Substances**KECL** - Korean Existing and Evaluated Chemical Substances**PICCS** - Philippines Inventory of Chemicals and Chemical Substances**AICS** - Australian Inventory of Chemical Substances**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 does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42).

**CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

**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 | Minnesota | Pennsylvania | Rhode Island |
|----------------------------------|------------|---------------|-----------|--------------|--------------|
| Diatomaceous Earth<br>61790-53-2 | X          | -             | X         | -            | X            |

**U.S. EPA Label Information**

**EPA Pesticide Registration Number** 73729-1

**EPA Statement**

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

**Difference between SDS and EPA pesticide label**

- KEEP OUT OF REACH OF CHILDREN
- CAUTION
- FIRST AID: In Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. contact lenses, if present, after the first 5 minutes, then continue rinsing eye. a poison control center or doctor for treatment advice.
- Causes moderate eye irritation.
- Avoid contact with eyes or clothing.
- Use adequate ventilation and avoid breathing dust.
- Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove and wash contaminated clothing before reuse.
- When using this product during prolonged exposure, wear a minimum of a

NIOSH-approved particulate filtering facepiece respirator with any N, R or P filter; or a NIOSH-approved elastomeric particulate respirator with any N, R or P filter; or a NIOSH-approved powered air-purifying respirator with an HE filter.

- Do not apply to water, or to areas where surface water is present or to intertidal areas below the mean water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

## 16. Other information

|             |                         |                       |                           |                              |
|-------------|-------------------------|-----------------------|---------------------------|------------------------------|
| <b>NFPA</b> | <b>Health hazards</b> 1 | <b>Flammability</b> 0 | <b>Instability</b> 0      | <b>Special hazards</b> -     |
| <b>HMIS</b> | <b>Health hazards</b> 1 | <b>Flammability</b> 0 | <b>Physical hazards</b> 0 | <b>Personal protection</b> E |

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

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | *    | Skin designation                 |

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

Agency for Toxic Substances and Disease Registry (ATSDR)  
 U.S. Environmental Protection Agency ChemView Database  
 European Food Safety Authority (EFSA)  
 EPA (Environmental Protection Agency)  
 Acute Exposure Guideline Level(s) (AELG(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)  
 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)  
 National Toxicology Program (NTP)  
 New Zealand's Chemical Classification and Information Database (CCID)  
 Organization for Economic Co-operation and Development Environment, Health, and Safety Publications  
 Organization for Economic Co-operation and Development High Production Volume Chemicals Program  
 Organization for Economic Co-operation and Development Screening Information Data Set  
 World Health Organization

**Revision date** 09-Dec-2022

**Revision Note** No information available.

### 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 Safety Data Sheet**