



IMERYS

Revision date 28-Oct-2022

Revision Number 1

1. Identification

Product identifier

Product Name XO White (MHI)

Other means of identification

Synonyms • Calcium Carbonate

Recommended use of the chemical and restrictions on use

Recommended use Functional mineral for use in industrial applications.

Restrictions on use Food ingredient.

Details of the supplier of the safety data sheet

Supplier Address

Imerys Carbonates USA, Inc.
100 Mansell Court East, Ste 300
Roswell, GA 30076 USA
+1-770-645-3300

Manufacturer Address

Imerys Carbonates USA, Inc.
9986 Hwy 53 East
Marble Hill, GA 30148
+1 888 277-9636

Emergency telephone number

Company Phone Number +1-770-645-3300

Emergency Telephone CHEMTREC: +1-800-424-9300
CHEMTREC International Number: +1 703-741-5970

2. Hazard(s) identification

Classification

Specific target organ toxicity (repeated exposure)

Category 1

Appearance Sand

Physical state Solid

Odor Odorless

Label elements

Danger

Hazard statements

Causes damage to organs through prolonged or repeated exposure

**Precautionary Statements - Prevention**

Do not breathe dust, fume, gas, mist, vapors and spray
Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product

Precautionary Statements - Response

Get medical advice/attention if you feel unwell

Precautionary Statements - Storage

Store in a dry place
Store in a closed container

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).
Long term exposure to crystalline silica can cause lung injury (silicosis). IARC and NTP have determined that crystalline silica inhaled from occupational sources can cause cancer in humans. Risk of injury is dependent on the duration and level of exposure.

3. Composition/information on ingredients

Substance

Synonyms Calcium Carbonate.

Chemical name	CAS No	Weight-%	Hazardous Material Information Review Act registry number (HMIRA registry #)	Date HMIRA filed and date exemption granted (if applicable)
Limestone	1317-65-3	100	-	-
Quartz	14808-60-7	~0.5	-	-

Composition Comments

The quartz weight % reported above is total weight and not respirable. The quartz is a natural constituent of the product and not intentionally added during manufacturing.

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.

Large Fire CAUTION: Use of water spray when fighting fire may be inefficient.

Unsuitable extinguishing media Do not scatter spilled material with high pressure water streams.

Specific hazards arising from the chemical Will decompose at temperatures exceeding 840°C/1500°F. The product will produce carbon dioxide on strong heating or reaction with acid.

Hazardous combustion products None.

Explosion data

Sensitivity to mechanical impact None.

Sensitivity to static discharge None.

Special protective equipment and precautions for fire-fighters 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

Personal precautions 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.

Other information Refer to protective measures listed in Sections 7 and 8.

Methods and material for containment and cleaning up

Methods for containment Keep out of drains, sewers, ditches and waterways.

Methods for cleaning up 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

Advice on safe handling 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

Storage Conditions Keep containers tightly closed in a dry, cool and well-ventilated place. Store away from acids.

8. Exposure controls/personal protection**Control parameters****Exposure Limits**

Chemical name		ACGIH TLV		OSHA PEL		NIOSH			
Limestone 1317-65-3		**		TWA: 15 mg/m³ total dust TWA: 5 mg/m³ respirable fraction (vacated) TWA: 15 mg/m³ total dust (vacated) TWA: 5 mg/m³ respirable fraction		TWA: 10 mg/m³ total dust TWA: 5 mg/m³ respirable dust			
Quartz 14808-60-7		TWA: 0.025 mg/m³ respirable particulate matter		TWA: 50 µg/m³ (vacated) TWA: 0.1 mg/m³ respirable dust : (250)/(%SiO2 + 5) mppcf TWA respirable fraction : (10)/(%SiO2 + 2) mg/m³ TWA respirable fraction		IDLH: 50 mg/m³ respirable dust TWA: 0.05 mg/m³ respirable dust			
Chemical name		Alberta		British Columbia		Ontario		Quebec	
Limestone 1317-65-3		TWA: 10 mg/m³		TWA: 10 mg/m³ TWA: 3 mg/m³ STEL: 20 mg/m³				TWA: 10 mg/m³	
Quartz 14808-60-7		TWA: 0.025 mg/m³		TWA: 0.025 mg/m³		TWA: 0.10 mg/m³		TWA: 0.1 mg/m³	

Other information

** No TLV established. It is recommended that airborne concentrations be kept below 3 mg/m³ (respirable particles) and 10 mg/m³ (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	Sand
Color	white
Odor	Odorless
Odor threshold	Not applicable

Property	Values	Remarks • Method
pH	8 - 9	10% slurry in water
Melting point / freezing point	> 1300 °C / 2372 °F	
Initial boiling point and boiling range	No data available	Not applicable
Flash point	No data available	Not applicable
Evaporation rate	No data available	Not applicable
Flammability	No data available	Not flammable
Flammability Limit in Air		Not applicable
Upper flammability or explosive limits	No data available	
Lower flammability or explosive limits	No data available	
Vapor pressure	No data available	Not applicable
Relative vapor density	No data available	Not applicable
Relative density	2.71	g/cm ³
Water solubility	slightly soluble	
Solubility in other solvents	No data available	Not applicable
Partition coefficient	No data available	Not applicable
Autoignition temperature	No data available	Not applicable
Decomposition temperature	> 840 °C / 1544 °F	
Kinematic viscosity	No data available	Not applicable
Dynamic viscosity	No data available	Not applicable

Other information

Explosive properties	Non-explosive
Oxidizing properties	Non oxidizing
Softening point	

Molecular weight	100.1
VOC content	Not applicable

Liquid Density

Bulk density

10. Stability and reactivity

Reactivity	When in contact with acids this product will form calcium oxide and carbon dioxide.
Chemical stability	Stable under normal conditions. Will decompose at temperatures exceeding 840°C/1500°F. The product will produce carbon dioxide on strong heating or reaction with acid.
Possibility of hazardous reactions	None under normal processing.
Hazardous polymerization	None under normal processing.
Conditions to avoid	Acids.
Incompatible materials	Acids.

Hazardous decomposition products Carbon dioxide (CO₂). Calcium oxides.

11. Toxicological information

Information on likely routes of exposure

Product Information

Inhalation

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.

Long term exposure to crystalline silica can cause lung injury (silicosis). IARC and NTP have determined that crystalline silica inhaled from occupational sources can cause cancer in humans. Risk of injury is dependent on the duration and level of exposure.

The level of exposure to respirable crystalline silica will depend on the actions performed on the product during handling and use. Exposure levels should, therefore, be measured during use, in comparison to relevant occupational exposure limits, as exposure cannot be determined from bulk product analysis.

Eye contact

May cause irritation.

Skin contact

Repeated exposure may cause skin dryness or cracking.

Ingestion

May cause irritation. Not an expected route of exposure.

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms Unknown.

Acute toxicity

Numerical measures of toxicity

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Quartz 14808-60-7	50 mg/m ³	-	-

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

Skin corrosion/irritation Prolonged contact may cause dryness of the skin.

Serious eye damage/eye irritation Particles in the eyes may cause irritation and smarting.

Respiratory or skin sensitization 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.

Germ cell mutagenicity None known.

Carcinogenicity 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
Quartz 14808-60-7	A2	Group 1	Known	X

Legend

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen	
Reproductive toxicity	Not classified.
STOT - single exposure	Not classified.
STOT - repeated exposure	Causes damage to organs through prolonged or repeated exposure.
Target organ effects	Lungs.
Aspiration hazard	Not classified.

12. Ecological information

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

13. Disposal considerations

Disposal methods

Waste from residues/unused products	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

<u>DOT</u>	Not regulated
<u>TDG</u>	Not regulated
<u>MEX</u>	Not regulated
<u>ICAO (air)</u>	Not regulated
<u>IATA</u>	Not regulated
<u>IMDG</u>	Not regulated
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	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 Complies.

Chemical name	CAS No	US TSCA Inventory listing	US TSCA inactive/active designation
Limestone	1317-65-3	Present	Active
Quartz	14808-60-7	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

Complies.

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/NDSL - 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****WARNING**

This product can expose you to chemicals including crystalline silica (quartz), which is known to the state of California to cause cancer. For more information go to www.P65Warnings.ca.gov

Chemical name	California Proposition 65
Quartz - 14808-60-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical name	New Jersey	Massachusetts	Minnesota	Pennsylvania	Rhode Island
Limestone 1317-65-3	X	X	X	X	X
Quartz 14808-60-7	X	X	X	X	X

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

16. Other information

NFPA	Health hazards 1	Flammability 0	Instability 0	Special hazards -
HMIS	Health hazards 1	Flammability 0	Physical hazards 0	Personal protection 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

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Revision Note

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