

OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

Issue date 04/06/2017 Reviewed on 04/06/2017

1 Identification

- · Product Identifier
- · Trade name: Pozzolan
- Relevant identified uses of the substance or mixture and uses advised against:
- · **Product Description** No further relevant information
- · Application of the substance / the mixture: Industry Specific Application
- · Details of the Supplier of the Safety Data Sheet:
- Manufacturer/Supplier: Lancaster Lime Works, LLC 1251 Beaver Valley Pike Willow Street, PA 17584 717.207.7014

www.lancasterlimeworks.com

· Emergency telephone number: 717.207.7014

2 Hazard(s) Identification

· Classification of the substance or mixture:



GHS08 Health hazard

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

- · Label elements:
- · GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:



GHS08

- · Signal word: Warning
- · Hazard statements:

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P314 Get medical advice/attention if you feel unwell.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

Unknown acute toxicity:

This value refers to knowledge of known, established toxicological or ecotoxicological values.

0 % of the mixture consists of component(s) of unknown toxicity.

- · Classification system: NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme
- NFPA ratings (scale 0 4)



Health = 1 Fire = 0 Reactivity = 0



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· HMIS-ratings (scale 0 - 4)



· Hazard(s) not otherwise classified (HNOC): None known

3 Composition/Information on Ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of substances listed below with non-hazardous additions.

· Additional information:

The exact percentages of the ingredients of this mixture are considered to be proprietary and are withheld in accordance with the provisions of paragraph (i) of §1910.1200 of 29 CFR 1910.1200 Trade Secrets.

4 First-Aid Measures

- Description of first aid measures:
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: If skin irritation occurs, consult a doctor.
- · After eye contact:

If eye irritation occurs, consult a doctor.

Rinse opened eye for several minutes under running water.

· After swallowing:

Do not induce vomiting without medical advice.

If swallowed and symptoms occur, consult a doctor.

- Information for doctor:
- Most important symptoms and effects, both acute and delayed: No further relevant information available.
- Indication of any immediate medical attention and special treatment needed:

No further relevant information available.

5 Fire-Fighting Measures

- Extinguishing media:
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- · Special hazards arising from the substance or mixture: No further relevant information available.
- · Advice for firefighters:
- Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent) and full protective gear to prevent contact with skin and eyes.

6 Accidental Release Measures

- · Personal precautions, protective equipment and emergency procedures: Not required.
- Environmental precautions: Do not allow to enter sewers/surface or ground water.
- Methods and material for containment and cleaning up:

Dispose of the collected material according to regulations.

· Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

Protective Action Criteria for Chemicals

· PAC-1:	
13463-67-7 Titanium Dioxide	30 mg/m3
· PAC-2:	
13463-67-7 Titanium Dioxide	330 mg/m3
· PAC-3:	
13463-67-7 Titanium Dioxide	2,000 mg/m3

7 Handling and Storage

- · Handling
- Precautions for safe handling: Avoid creating and breathing dust/fume/gas/mist/vapors/spray.
- · Information about protection against explosions and fires: No special measures required.
- Conditions for safe storage, including any incompatibilities:
- Storage
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · Specific end use(s): No further relevant information available.

8 Exposure Controls/Personal Protection

- Additional information about design of technical systems: No further data; see section 7.
- · Control parameters:
- Components with occupational exposure limits:

13463-67-7 Titanium Dioxide

PEL Long-term value: 15* mg/m³

*total dust

REL See Pocket Guide App. A

TLV Long-term value: 10 mg/m³

withdrawn from NIC

- · Additional information: The lists that were valid during the creation of this SDS were used as basis.
- Exposure controls:
- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Breathing equipment: Not required.
- · Protection of hands: Not required.
- · Material of gloves: Not applicable
- · Penetration time of glove material: Not applicable.
- · Eye protection: Not required.

9 Physical and Chemical Properties

- · Information on basic physical and chemical properties
- General Information
- · Appearance:

Form: Powder Color: White

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· Odor: Odorless

· Odor threshold: Not determined.

· **pH-value** @ **20** °**C** (**68** °**F**): 5-8

Change in condition

Melting point/Melting range: >1,700 °C (>34,1292 °F)

Boiling point/Boiling range: Not determined.

· Flash point: None

Flammability (solid, gaseous): Not determined.Ignition temperature: Not applicable

• Decomposition temperature: Not determined.

• **Auto igniting:** Product is not self-igniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower: Not determined.Upper: Not determined.Vapor pressure: Not applicable.

• **Density @ 20 °C (68 °F):** ~2.216-~2.612 g/cm³ (~18.493-~21.797 lbs/gal)

Relative density: Not determined.
Vapor density: Not applicable.
Evaporation rate: Not applicable.

· Solubility in / Miscibility with:

Water: Soluble.

· Partition coefficient (n-octanol/water): Not determined.

· Viscosity:

Dynamic: Not applicable. **Kinematic:** Not applicable.

Solvent content:

Organic solvents: 0.0 %

• Other information: No further relevant information available.

10 Stability and Reactivity

- · *Reactivity:* No further relevant information available.
- Chemical stability: Stable under normal conditions.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions: No dangerous reactions known.
- · Conditions to avoid: No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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11 Toxicological Information

- Information on toxicological effects:
- · Acute toxicity:

rious temeny.			
· LD/LC50	values tha	nt are relevant for classification:	
13463-67-	7 Titaniun	n Dioxide	
Oral	LD50	>10000 mg/kg (Rat)	
Dermal	LD50	>10000 mg/kg (Rabbit)	
Inhalative	LC50/4 h	>6.82 mg/l (Rat)	

- Primary irritant effect:
- On the skin: No irritating effect.
- On the eye: No irritating effect.
- Additional toxicological information:
- · Carcinogenic categories:
- IARC (International Agency for Research on Cancer):
- (a) Although IARC has classified titanium dioxide as possible carcinogenic to human (2B), their summary concludes: "No significant exposure to titanium dioxide is thought to occur during the use of products which titanium dioxide is bound to other materials, such as in cosmetics or in paints."
- (b) OSHA does not regulate Titanium Dioxide as a carcinogen. However, under 29 CFR 1910.1200 the SDS must convey the fact that Titanium Dioxide is a potential carcinogen to rats.

Group 1 - Carcinogenic to humans

Group 2A - Probably carcinogenic to humans

Group 2B - Possibly carcinogenic to humans

Group 3 - Not classifiable as to its carcinogenicity to humans

Group 4 - Probably not carcinogenic to humans

13463-67-7 Titanium Dioxide	2B
· NTP (National Toxicology Program):	
None of the ingredients are listed.	
· OSHA-Ca (Occupational Safety & Health Administration):	
None of the ingredients are listed.	

12 Ecological Information

- · Toxicity:
- Aquatic toxicity:

 13463-67-7 Titanium Dioxide

 EC50 >1000 mg/l (Water flea)
 - Persistence and degradability: No further relevant information available.
 - · Behavior in environmental systems:
 - · Bioaccumulative potential: No further relevant information available.
 - · Mobility in soil: No further relevant information available.
 - · Additional ecological information:
 - General notes:

Do not allow undiluted product or product that has not been neutralized to reach ground water, water course or sewage system.

- Results of PBT and vPvB assessment:
- · **PBT**: Not applicable.
- · vPvB: Not applicable.



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· Other adverse effects: No further relevant information available.

13 Disposal Considerations

- · Waste treatment methods:
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Observe all federal, state and local environmental regulations when disposing of this material.

- · Uncleaned packagings
- · Recommendation: Disposal must be made according to official regulations.

14 Transport Information

· UN-Number:

· DOT, ADR/ADN, ADN, IMDG, IATA Non-Regulated Material

· UN proper shipping name:

DOT, ADR/ADN, ADN, IMDG, IATA Non-Regulated Material

· Transport hazard class(es):

· DOT, ADR/ADN, ADN, IMDG, IATA

· Class: Non-Regulated Material

· Packing group:

· DOT, ADR/ADN, IMDG, IATA Non-Regulated Material

Environmental hazards:
 Special precautions for user:
 Not applicable.

· Transport in bulk according to Annex II of

MARPOL73/78 and the IBC Code: Not applicable.

UN "Model Regulation": Non-Regulated Material

15 Regulatory Information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture:
- · SARA (Superfund Amendments and Reauthorization):
- · Section 355 (extremely hazardous substances):

None of the ingredients are listed.

Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

· TSCA (Toxic Substances Control Act):

All ingredients are listed or exempt from listing.

· California Proposition 65:

· Chemicals known to cause cancer:

13463-67-7 Titanium Dioxide

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

· Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

· Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

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New Jersey Right	o-Know List:			
13463-67-7 Titaniu	n Dioxide			
New Jersey Speci	New Jersey Special Hazardous Substance List:			
None of the ingredi	nts are listed.			
· Pennsylvania Rigi	t-to-Know List:			
13463-67-7 Titaniu	n Dioxide			
Pennsylvania Spe	ial Hazardous Substance List:			
None of the ingredi	nts are listed			

- · Carcinogenic categories:
- · EPA (Environmental Protection Agency):

None of the ingredients are listed.

TLV (Threshold Limit Value established by ACGIH):

13463-67-7 Titanium Dioxide

A4

· NIOSH-Ca (National Institute for Occupational Safety and Health):

13463-67-7 Titanium Dioxide

· GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms:



GHSO8

- · Signal word: Warning
- · Hazard statements:

H373 May cause damage to organs through prolonged or repeated exposure.

· Precautionary statements:

P260 Do not breathe dust/fume/gas/mist/vapors/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P314 Get medical advice/attention if you feel unwell.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

· National regulations:

The product is subject to be classified according with the latest version of the regulations on hazardous substances.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other Information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied, and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- · Date of preparation / last revision: 04/06/2017 / 2
- Abbreviations and acronyms:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation



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IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety and Health

OSHA: Occupational Safety & Health Administration

TLV: Threshold Limit Value
PEL: Permissible Exposure Limit REL: Recommended Exposure Limit

Carc. 2: Carcinogenicity – Category 2 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

* Data compared to the previous version altered.

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