



# SAFETY DATA SHEET

## 1. Identification

**Product identifier** Insul D  
**Synonyms** Infusorial earth; Diatomaceous earth  
**Recommended use** For Industrial Use Only  
**Recommended restrictions** Not for food, drug, pesticide, or biocidal product use.  
**Manufacturer/Supplier information**

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## 2. Hazard(s) identification

<b>Physical hazards</b>	Single Exposure	
	Specific target Organ Toxicity	Category 3
	Eye damage/irritation	Category 2A
	Repeated exposure	
	Target Organs – Respiratory System.	
	Specific target organ toxicity	Category 2
<b>Environmental hazards</b>	Not classified.	
<b>OSHA defined hazards</b>	Not classified.	
<b>Label elements</b>		



<b>Signal word</b>	Warning.
<b>Hazard Statement</b>	Eye Irritation. H 319 – causes serious eye irritation. H335 – May cause respiratory irritation. STOT RE 3 Specific target organ toxicity - repeated exposure. STOT SE 3 Specific target organ toxicity - single exposure.
<b>Precautionary statement</b>	
<b>Prevention</b>	Wear protective gloves/protective clothing/eye protection.

**Response**

Wash skin thoroughly after handling.  
 Do not breathe dust/fumes/gas/mist/vapors/spray.  
 If exposed or concerned: Get medical advice/attention.  
 If on the skin: Wash with plenty of water. Take off contaminated clothing and wash it before reuse. If in eyes: Rinse continuously with water for several minutes. Remove contact lenses, if present, and easy to do.  
 If inhaled: Remove the victim to fresh air and keep at rest in a position comfortable for breathing. Call the poison control center or a doctor if you feel unwell.

**Storage**

Store in a well-ventilated place. Keep the container tightly closed.

**Disposal**

Store locked up.  
 Dispose of contents/container in accordance with local/regional/national/international regulations

**Hazard(s) not otherwise Classified (HNOC)**

None Known.

**3. Composition/information on ingredients**

Substance/mixture: Limestone

Chemical Name	Common Name/Synonyms	CAS Number	%
Diatomaceous Earth	Natural (Kieselguhr)	61790-53-2	100

- Trace amounts of naturally occurring elements might be detected during chemical analysis of these materials.

**4. First-aid measures****Inhalation**

Remove from exposure, lie down. Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Obtain medical attention.

**Skin contact**

Wash off with soap and water while removing all contaminated clothes and shoes. Get medical attention if irritation develops and persists.

**Eye contact**

Dust: Immediately flush with plenty of water for at least 15 minutes. Hold eyelids apart. Remove contacts if present and easy to do. Occasionally lift the eyelid(s) to ensure thorough rinsing. Beyond flushing, do not attempt to remove material from the eye(s). Get medical attention if irritation develops or persists.

**Ingestion**

Dust: Rinse your mouth and drink plenty of water. Never give anything by mouth to an unconscious person.  
 Ingestion of product: Do not induce vomiting. Clean your mouth with water. Seek medical attention.

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

Inhaling dust may cause discomfort in the chest, shortness of breath, and coughing. Prolonged inhalation may cause chronic health effects.

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

## General information

Provide general supportive measures and treat symptomatically. Keep the victim under observation. Symptoms may be delayed.

If concerned: Get medical advice. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

## 5. Fire-fighting measures

**Suitable extinguishing media** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media** Not available.

**Specific hazards arising from the chemical** Not available.

**Special protective equipment and precautions for firefighters**  
As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear.

## 6. Accidental release measures

**Personal precautions, protective equipment, and emergency procedures**  
Keep unnecessary personnel away. Wear appropriate protective equipment and clothing during clean-up. Use a NIOSH/MSHA-approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

**Methods and materials for containment and cleaning up**  
Wear appropriate protective equipment and clothing during clean-up. Collect the spill using a vacuum cleaner with a HEPA filter. Place in a closed container. For waste disposal, see section 13 of the SDS.

**Environmental precautions** Avoid discharge into drains, water courses, or onto the ground.

## 7. Handling and storage

**Precautions for safe handling** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Minimize dust generation and accumulation. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust. Do not breathe dust. Avoid prolonged exposure. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

**Conditions for safe storage, including any incompatibilities**

Store locked up. Store in the original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

<i>Components</i>	<i>Type</i>	<i>Value</i>	<i>Form</i>
<b>Diatomaceous earth (CAS 61790-53-2)</b>	PEL	6mg/m <sup>3</sup>	Total Dust

\*Particles not otherwise specified/classified: USA / OSHA PEL (Occupational Safety and Health Administration, Permissible Exposure Limits): Respirable fraction TWA=5mg/m<sup>3</sup> Total fraction TWA=10 mg/m<sup>3</sup>

### Biological limit values

No biological exposure limits were noted for the ingredient(s).

### Exposure guidelines

OSHA PELs, MSHA PELs, and ACGIH TLVs are 8-hr TWA values. NIOSH RELs are for TWA exposures up to 10-hr/day and 40-hr/week. Occupational exposure to nuisance dust (total and respirable) should be monitored and controlled.

### Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. If engineering measures are not sufficient to maintain concentrations of dust particulates below the Occupational Exposure Limit (OEL), suitable respiratory protection must be worn. If material is ground, cut, or used in any operation that may generate dust, use appropriate local exhaust ventilation to keep exposures below the recommended exposure limits.

### Individual protection measures, such as personal protective equipment

#### Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

#### Skin protection

##### Hand protection

Wear appropriate chemical-resistant gloves.

##### Other

Use of an impervious apron is recommended.

#### Respiratory protection

Use a NIOSH/MSHA-approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

**Thermal hazards** Wear appropriate thermal protective clothing, when necessary.

**General Hygiene Considerations**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

### Appearance

Physical state	Powder Solid, particles of granular and angular mixture
Form	Powder solid.
Color	Various, white.
Odor	Odorless.
Odor threshold	Not available.
pH	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not available.
Upper/lower flammability or explosive limits	
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	Not available.
Vapor density	Not available.
Relative Density	Not available.
Solubility(ies)	
Solubility (water)	Not available.
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.

## 10. Stability and reactivity

**Reactivity** The product is stable and non-reactive under normal conditions of use, storage, and transport.

**Chemical stability** Material is stable under normal conditions.

**Possibility of hazardous reactions**

<b>Conditions to avoid</b>	No dangerous reaction is known under conditions of normal use.
<b>Incompatible materials</b>	Contact with incompatible materials. Powerful oxidizers. Exposure to moisture. Incompatibility is based strictly upon potential theoretical reactions between chemicals and may not be specific to industrial application exposure. Contact your sales representative for clarification.
<b>Hazardous decomposition products</b>	Silica dioxide

## 11. Toxicological information

### Information on likely routes of exposure

<b>Inhalation</b>	Dust may irritate the respiratory system. Prolonged inhalation may be harmful.
<b>Skin contact</b>	Dust or powder may irritate the skin.
<b>Eye contact</b>	Dust may irritate the eyes.
<b>Ingestion</b>	Expected to be a low ingestion hazard.

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

Dusts may cause mechanical irritation to the eyes and skin. Ingestion may cause transient irritation of the throat, stomach, and gastrointestinal tract. Inhalation may cause coughing, nose and throat irritation, and sneezing. Higher exposures may cause difficulty breathing, congestion, and chest tightness.

### Information on toxicological effects

<b>Acute toxicity</b>	Not available.
<b>Skin corrosion/irritation</b>	Prolonged skin contact may cause temporary irritation.
<b>Serious eye damage/eye irritation</b>	Direct contact with the eyes may cause temporary irritation.
<b>Respiratory or skin sensitization</b>	
<b>Respiratory sensitization</b>	Not a respiratory sensitizer.
<b>Skin sensitization</b>	This product is not expected to cause skin sensitization.
<b>Germ cell mutagenicity</b>	No data is available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

### Carcinogenicity

#### IARC Monographs. Overall Evaluation of Carcinogenicity

Not listed.

#### US National Toxicology Program (NTP) Report on Carcinogens

Not listed.

#### US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not listed.

### Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

### Developmental effects

No information available.

### Developmental effects - EU category

No information is available.

### Embryotoxicity

No information is available.

### Reproductively

No information is available.

### Specific target organ toxicity - single exposure

Not classified.

### Specific target organ toxicity - repeated exposure

May cause damage to organs (lungs) through prolonged or repeated exposure.

### Aspiration hazard

Not an aspiration hazard.

### Chronic effects

Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

## 12. Ecological information

### Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

<i>Components</i>	<i>Type</i>	<i>Limits</i>
Diatomaceous earth (CAS 61790-53-2)	Freshwater Fish	LC50:>10000 mg/L, 72 h (Cyprinus carpio)

### Persistence and degradability

No data is available on the degradability of this product.

### Bio-accumulative potential

No data available.

### Mobility in soil

No data available.

### Other adverse effects

No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

## 13. Disposal considerations

### Disposal instructions

This product, in its present state, when discarded or disposed of, is not hazardous waste according to Federal regulations (40 CFR 261.4 (b)(4)). Under RCRA, it is the responsibility of the user of the product to determine, at the time of disposal, whether the product meets RCRA criteria for hazardous waste.

### Hazardous waste code

Since this product is used in several industries, no Waste Code can be provided by the supplier. The Waste Code should be determined in arrangement with your waste disposal partner or the responsible authority.

### Waste from residues / unused products

Not available.

### Contaminated packaging

Not available.

## 14. Transport information

### DOT

IATA Not regulated as dangerous goods.  
IMDG Not regulated as dangerous goods.  
Packaging Group Not classified.  
Bulk Transport Not applicable.

## 15. Regulatory information

**US federal regulations** All chemical substances in this product are listed on the TSCA chemical substance inventory where required.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**  
Not listed.

**SARA 304 Emergency release notification**  
Not regulated.

**US OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**  
Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**  
Immediate Hazard - No  
Chronic Health Hazard - Yes  
Delayed Hazard - Yes  
Fire Hazard - No  
Pressure Hazard - No  
Reactivity Hazard - No

**SARA 302 Extremely hazardous substance**  
Not listed.

**SARA 311/312 Hazardous Chemical**  
No

**SARA 313 (TRI reporting)** No

**Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**  
Not Regulated

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**  
Not regulated.

**Safe Drinking Water Act (SDWA)**  
Not regulated.

**US state regulations**

**US California Controlled Substances. CA Department of Justice (California Health and Safety Code Section 11100)**  
Not listed.

**US Massachusetts RTK - Substance List**  
Not regulated.

**US New Jersey Worker and Community Right-to-Know Act**  
Not regulated.

**US Pennsylvania Worker and Community Right-to-Know Law**  
Not regulated.



US Rhode Island RTK      Not regulated.  
US California Proposition 65

This product does not contain any Proposition 65 chemicals.

## 16. Other information, including date of preparation or last revision

This information is supplied to be informative and to alert the user of the material. The ultimate compliance with federal, state, and/or local regulations concerning the use of this material, or compliance with respect to product liability, rests solely upon the purchaser thereof.

**Prepared by:**      FRC Global  
**Date:**              October 2020

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**End of Safety Data Sheet**