

MATERIAL SAFETY DATA SHEET

(in compliance with Regulation (EC) 1907/2006

Date of printing: 29.04.2014 reviewed on: 19.11.2010

Poliresin®



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1. MATERIAL/PREPARATION AND COMPANY DESCRIPTION

Product, Trade Name Details: **Poliresin®**

Manufacturer/Dispatcher Details:

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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance:

Fired, heat-modified Terra silicea with less than 1% respirable cristobalite

This product does not meet the criteria for classification as hazardous as defined in the Regulation EC 1272/2008 and in Directive 67/548/EEC.

Regulation EC 1272/2008: No classification

Directive EU (67/548/EEC): No classification

2.2. Label elements:

Terra silicea Flux-calcined with less than 1% respirable cristobalite

None.

2.3. Other hazards:

Acute inhalation can cause dryness of the nasal passage and lung congestion, coughing and general throat irritation. Chronic inhalation of dust should be avoided. May cause irritation (tear formation and redness) if dust gets in eyes. Although not absorbed by the skin, may cause dryness if prolonged exposure. Ingestion of small to moderate quantities is not considered harmful, but may cause irritation of the mouth, throat and stomach.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Main constituent

Name	% by weight	CAS-No	EINECS No
Terra silicea, Flux-calcined	100%	68855-54-9	272-489-0

Other components

Cristobalite (Respirable)	< 1%	14464-46-1	238-455-4
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Respirable crystalline silica per SWeRF calculation (particle size distribution)

3.2. Impurities: None.

4. FIRST AID MEASURES

4.1. Description of first aid measures:

Eye contact:

Rinse with copious quantities of water and seek medical attention if irritation persists.

Ingestion:

Drink generous amounts of water to reduce bulk and drying effect.

Inhalation:

Movement to fresh air is recommended. Blow nose to evacuate dust.

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Skin contact:

Wash skin with soap and water. Use suitable lotion to moisturize skin if dryness occurs.

4.2. Most important symptoms and effects, both acute and delayed:

Acute inhalation can cause dryness of the nasal passage and lung congestion, coughing and general throat irritation. Chronic inhalation of dust should be avoided. Personal protective respiratory equipment is recommended if area exposure levels are higher than permissible under current national regulations. Ingestion of moderate quantities may cause irritation to the mouth, throat and stomach.

4.3. Indication of any immediate medical attention and special treatment needed:

No specific actions are required, however movement to fresh air is recommended and blow nose to evacuate dust.

5. FIREFIGHTING MEASURES

5.1. Extinguishing media:

No specific extinguishing media is needed. The material is not flammable. No hazardous thermal decomposition. Use of extinguishing agent suitable for surrounding fire recommended.

5.2. Special hazards arising from the substance or mixture:

Substance is not flammable and does not spontaneously combust; substance is not explosive.

5.3. Advice for fire-fighters:

No specific fire-fighting protection is required.

6. MEASURES FOR ACCIDENTAL EXPOSURE

6.1 Personal precautions, protective equipment and emergency procedures:

Avoid airborne dust generation. Wear personal protective equipment in compliance with national legislation. Protect eyes with goggles.

6.2 Environmental precautions:

No special requirements.

6.3 Methods and material for containment and cleaning up:

Avoid dry sweeping and use water spraying or vacuum cleaning systems to prevent airborne dust generation. Wear personal protective equipment in compliance with national legislation.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling:

Avoid airborne dust generation. Provide appropriate exhaust ventilation at places where airborne dust is generated. In case of insufficient ventilation, wear suitable respiratory protective equipment. Handle packaged products carefully to prevent accidental bursting.

7.2. Conditions for safe storage, including any incompatibilities:

Minimize airborne dust generation and prevent wind dispersal during loading and unloading. Keep containers closed and store packaged products so as to prevent accidental bursting. Store in a dry place to maintain packaging integrity and product quality. Do not store near hydrofluoric acid. Observe all label precautions and warnings.

8. LIMITING EXPOSURE AND PERSONAL

8.1. Control parameters:

Observe workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust) in compliance with applicable national legislation. The lists valid during the making were used as basis.

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8.2. Occupational Exposure Control:

Minimize airborne dust generation. Use process enclosures, local exhaust ventilation or other engineering controls to keep airborne levels below specified exposure limits. If user operations generate dust, fumes or mist, use ventilation to keep exposure to airborne particles below the exposure limit. Apply organizational measures e.g. by isolating personnel from dusty areas. Remove and wash soiled clothing.

8.3 Personal protection equipment:

Eye/Face protection:

Wear safety glasses with side-shields in circumstances where there is a risk of penetrative eye injuries.

Skin protection:

Appropriate protection (e.g. gloves, barrier cream) is recommended for workers who suffer from dermatitis or sensitive skin. Wash hands at the end of each work session.

Respiratory protection:

In case of prolonged exposure to airborne dust concentrations, wear respiratory protective equipment that complies with the requirements of European and national legislation.

Environmental Exposure Control:

Avoid wind dispersal.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Appearance:

Form:	Powder
Colour:	White
Odour:	Odourless
pH (10% SUSPENSION).	8-10
Physical State:	Solid

9.2 Safety-Related Data:

Vapour Pressure:	Does not exist as a vapour.
Vapour Density:	Does not exist as a vapour.
Boiling Point:	Decomposes before boiling.
Melting Point:	> 1300° C
Flash Point:	Is not flammable.
Flammability:	Not flammable.
Flammability Limits:	Not flammable.
Auto Ignition Temperature:	Not flammable.
Decomposition Temperature:	> 1300° C
Spec. Gravity / Relative Density:	2.3
Evaporation Rate:	Not applicable.
COEFF. - Water/Oil:	Not applicable.
Odour threshold:	Not applicable.
Solubility - Water:	< 1%
Partition Coefficient:	Not applicable.
Viscosity:	Not applicable, does not exist as a liquid.
Explosive properties:	Not explosive.
Oxidizing properties:	Not applicable, is neither an oxidizer nor a reducer.

10. STABILITY AND REACTIVITY

10.1 Reactivity:

Substance is not reactive.

10.2 Chemical Stability:

Substance is chemically stable.

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10.3 Possibility of hazardous reactions:

Do not use with hydrofluoric acid. May react violently.

10.4 Conditions to avoid:

Do not leave in enclosed spaces when mixed with highly flammable material, as heat can build up over long periods of time and flammable material may eventually ignite.

10.5 Incompatible Materials:

Hydrofluoric acid. Products containing silica may react violently with hydrofluoric acid.

10.6 Hazardous decomposition products:

There is no danger of hazardous decomposition.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

- a. Acute toxicity: Based on available data, the classification criteria are not met.
- b. Skin corrosion/ irritation: Based on available data, the classification criteria are not met.
- c. Serious eye damage/ irritation: Based on available data, the classification criteria are not met.
- d. Respiratory or skin sensitization: Based on available data, the classification criteria are not met.
- e. Germ cell mutagenicity: Based on available data, the classification criteria are not met.
- f. Carcinogenicity: Based on available data, the classification criteria are not met.
- g. Reproductive toxicity: Based on available data, the classification criteria are not met.
- h. STOT – Single exposure: Based on available data, the classification criteria are not met.
- i. STOT – Repeated exposure: Terra silicea Flux-calcined with less than 1% respirable cristobalite
Based on available data, the classification criteria are not met.
- j. Aspiration hazard: Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

12.1 Toxicity

Diatomaceous earth products have shown some efficacy as a natural insecticide, but otherwise have no demonstrated toxicity in regards to aquatic or terrestrial life.

12.2. Persistence and degradability

Not relevant.

12.3. Bioaccumulative potential

Little potential for bioaccumulation.

12.4. Mobility in soil

Negligible.

12.5. Results of PBT and vPvB assessment

Not relevant

12.6. Other adverse effects:

No specific adverse effects known.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

WASTE FROM RESIDUES / UNUSED PRODUCTS.

Where possible, recycling is preferable to disposal. May be disposed of in a non-hazardous sanitary landfill when not mixed with a hazardous substance. Check with local and government agencies prior to disposal.

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PACKAGING

Dust formation from residues in packaging should be avoided and suitable worker protection assured. Store used packaging in enclosed receptacles. Recycling and disposal of packaging should be carried out in compliance with local regulations. The re-use of packaging is not recommended. Repair all broken bags. Recycling and disposal of packaging should be carried out by an authorized waste management company.

14. TRANSPORT INFORMATION

14.1. UN number:

Not relevant:

14.2. UN proper shipping name:

The substance is not listed on the Dangerous Goods list.

14.3. Transport hazard class:

ADR: Not classified

IMDG: Not classified

ICAO/IATA: Not classified

RID: Not classified

14.4. Packaging group:

Not relevant

14.5. Environmental hazards:

Not relevant

14.6. Special precautions for users:

No special precautions

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code.

Technical name is "Terra silicea". No special transport classification in effect.

15. REGULATORY INFORMATION

15.1 Chemical safety assessment:

Subject to REACH Registration. A chemical safety assessment has been carried out on behalf of the manufacturer.

16. OTHER INFORMATION

The above data is supported by the current state of our knowledge and does not constitute any warranty of properties. It should help only in carrying out suitable safety measures.