



Aqua Chemical Supply, Inc.

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1. PRODUCT AND COMPANY IDENTIFICATION

Perlite Celatom® Perlite Filter Aid, CP200E, CP300E, CP600E, CP1400E, CP5000E and CP8000E
Chemical name/synonyms: perlite; sodium potassium aluminum silicate; silicate

Uses of the substance The substance is used as a filter aid or functional additive.

Manufacturer/Supplier/Distributor:

EP Minerals, LLC (manufacturer), 9785 Gateway Drive, Suite 1000, Reno, Nevada 89521

Emergency telephone number: For emergency assistance involving chemicals call
CHEMTREC day or night at: 1-800-424-9300

2. HAZARDS IDENTIFICATION

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.

Perlite is a naturally occurring volcanic glass consisting of fused sodium –potassium- aluminum silicate. 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

Name	% by weight	CAS-No	EINECS No
Perlite, natural	100%	93763-70-3	not listed

Impurities: None

Composition comments: All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. FIRST AID MEASURES

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.

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

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.

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. FIRE FIGHTING MEASURES

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.

Special hazards arising from the substance or mixture Substance is not flammable and does not spontaneously combust; substance is not explosive.

Advice for fire-fighters No specific fire-fighting protection is required.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Avoid airborne dust generation. Wear personal protective equipment in compliance with national legislation. Protect eyes with goggles.

Environmental precautions No special requirements.

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

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.

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. Observe all label precautions and warnings.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust) in compliance with applicable national legislation. Perlite is considered a nuisance dust, which may contain a negligible quantity of quartz; less than 0.1% quartz, resulting in a much lower respirable fraction.

Occupational Exposure Limits Table

Countries Quartz - Respirable Fraction (mg/m³)

United States 0.1

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. Apply organizational measures e.g. by isolating personnel from dusty areas.

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

Appearance, Color White to off white powder

Odor Odorless

Physical State Solid

pH (10% SUSPENSION) 7

Vapor Pressure Does not exist as a vapor

Vapor Density Does not exist as a vapor

Boiling Point Decomposes before boiling

Melting Point > 800° C

Flash Point Not flammable

Flammability Not flammable

Flammability Limits Not flammable

Autoignition Temperature Not flammable

Decomposition Temperature >800° C

Spec. Gravity/Relative Density 2.3

Evaporation Rate Not applicable

COEFF. – Water/Oil Not applicable

Odor 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 or a reducer

10. STABILITY AND REACTIVITY

Reactivity Substance is not reactive.
 Chemical Stability Substance is chemically stable.
 Possibility of hazardous reactions Do not use with hydrofluoric acid. May react violently.
 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.
 Incompatible Materials Hydrofluoric acid. Products containing silica may react violently with hydrofluoric acid.
 Hazardous decomposition products There is no danger of hazardous decomposition.

11. TOXICOLOGICAL INFORMATION

Acute toxicity: Based on available data, the classification criteria are not met.
 Skin corrosion/ irritation: Based on available data, the classification criteria are not met.
 Serious eye damage/ irritation: Based on available data, the classification criteria are not met.
 Respiratory or skin sensitization: Based on available data, the classification criteria are not met.
 Germ cell mutagenicity: Based on available data, the classification criteria are not met.
 Carcinogenicity: Based on available data, the classification criteria are not met.
 Reproductive toxicity: Based on available data, the classification criteria are not met.
 STOT – Single exposure: Based on available data, the classification criteria are not met.
 STOT – Repeated exposure: Based on available data, the classification criteria are not met.
 Aspiration hazard: Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION

Toxicity No demonstrated toxicity in regards to aquatic or terrestrial life.
 Persistence and degradability Not relevant
 Bioaccumulative potential Little potential for bioaccumulation
 Mobility in soil Negligible
 Results of PBT and vPvB assessment Not relevant
 Other adverse effects No specific adverse effects known

13. DISPOSAL CONSIDERATION

WASTE FROM RESIDUES / UNUSED PRODUCTS Where possible, recycling is preferable to disposal. Check with national governmental agencies prior to disposal.

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

UN number Not relevant
 UN proper shipping name The substance is not listed on the Dangerous Goods list.
 Transport hazard class ADR: Not classified IMDG: Not classified ICAO/IATA: Not classified RID: Not classified
 Packaging group Not relevant
 Environmental hazards Not relevant
 Special precautions for users No special precautions
 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code No special transport classification in effect.

15. REGULATORY INFORMATION

United States (federal and state)
 TSCA: Not listed.
 CERCLA: This product is not classified as a hazardous waste under the regulations of the Comprehensive Environmental Response Compensation and Liability Act (CERCA), 40 CFR Sec. 302.
 SARA Title III: This product is not classified as an extremely hazardous waste under Section 302 and is not a toxic chemical subject to the requirements of Section 313.
 NPT: Not listed.
 HMIS Rating: Health 0 Fire 0 Reactivity 0 Personal Protection E NFPA Rating: Health 0 Flammability 0 Reactivity 0 Specific Hazard 0
 Canada
 WHMIS Classification: This product is not regulated by WHMIS.

16. OTHER INFORMATION

Workers must be trained in the proper use and handling of this product as required under applicable national regulations

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Do not use ingredient information and/or ingredient percentages in this SDS as a product specification. For product specification information refer to a product specification sheet and/or a certificate of analysis. These can be obtained from your local Aqua Chemical Supply, Inc. sales office.

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