

Insulation · Refractory · Eco-friendly

SAFETY DATA SHEET

SDS No. M0189	Effective Date: 2014-09-03	
1. IDENTIFICATION		

Product Identifier: CCEWOOL® 1200C Bio Soluble Fiber Blanket Chemical Name: ALKALINE EARTH SILICATE FIBER (AES)

Recommended Use: High Temperature Insulation.

INSULATION PRODUCTS are available as fibers,

boards, papers, blankets and modules.

Manufacturer/Supplier: Double Egret

No.105 Liuquan Rd Zibo City Shandong

Tel: +86-533-7986860 Fax: +86-533-6077229

website:www.cndoubleegret.com

2. HAZARDS IDENTIFICATION

Not Classified in accordance with paragraph (d) of OSHA HCS 2012 §1910.1200

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC):

MAY IRRITATE EYES, SKIN and RESPIRATORY TRACT

May cause temporary mechanical irritation to eyes, skin, and respiratory tract (nose, throat & lungs).

Pre-existing medical conditions, including dermatitis, asthma or chronic lung disease may be aggravated by exposure; individuals who are atopic (with a history of allergies) may experience greater amounts of skin and respiratory irritation.

3. COMPOSITION / INFORMATION ON INGREDIENTS

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COMPONENTS

CAS NUMBER

% BY WEIGHT

Amorphous alkaline-earth-silicate

436083-99-7

100

(calcium-magnesium-silicate) fiber

(SiO₂ 63-70 %, CaO+ MgO 25-35%, trace

elements 0-1%)*

*Synonyms: Synthetic vitreous fiber (SVF), man-made vitreous fiber (MMVF),

man-made mineral fiber (MMMF), alkaline-earth-silicate fiber (AES), calcium magnesium silicate fiber (CMS), high temperature insulation wool

UTIMA

(See Section 8 "Exposure Controls / Personal Protection" for exposure

guidelines)

4. FIRST AID MEASURES

FIRST AID PROCEDURES

RESPIRATORY TRACT (nose & throat) IRRITATION:

If respiratory tract irritation develops, move the person to a dust free location. Get medical attention if the irritation continues. See Section 8 for additional measures to reduce or eliminate exposure.

EYE IRRITATION:

If eyes become irritated, flush immediately with large amounts of lukewarm water for at least 15 minutes. Eyelids should be held away from the eyeball to ensure thorough rinsing. Do not rub eyes. Get medical attention if irritation persists.

SKIN IRRITATION:

If skin becomes irritated, remove soiled clothing. Do not rub or scratch exposed skin. Wash area of contact thoroughly with soap and water. Using a skin cream or lotion after washing may be helpful.

GASTROINTESTINAL IRRITATION:

If gastrointestinal tract irritation develops, move the person to a dust free environment.

NOTES TO PHYSICIANS:

Skin and respiratory effects are the result of temporary, mild mechanical irritation; fiber exposure does not result in allergic manifestations.

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5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Use extinguishing media suitable for type

of surrounding fire.

Hazardous Decomposition Products:

Flammable Properties: Non combustible

Special protective equipment and Wear a NIOSH certified respirator together precautions for fire-fighters

with other protective gear appropriate to

The surrounding fire.

Unusual Fire and Explosion Hazard: None **NFPA Unusual Hazards:** None

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Minimize airborne dust. Compressed air or dry sweeping should not be used for cleaning. See Section 8 "Exposure Controls / Personal Protection" for exposure guidelines.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Dust suppressing cleaning methods such as wet sweeping or vacuuming should be used to clean the work area. If vacuuming, the vacuum must be equipped with a HEPA filter.

7. HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

Handle fiber carefully to minimize airborne dust. Limit use of power tools unless in conjunction with local exhaust. Use hand tools whenever possible. Frequently clean the work area with HEPA filtered vacuum or wet sweeping to minimize the accumulation of debris. Do not use compressed air for clean-up.

CONDITIONS FOR SAFE STORAGE

Store in original container in a dry area. Keep container closed when not in use.

EMPTY CONTAINERS

Product packaging may contain residue. Do not reuse.

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8. EXPOSURE CONTROL / PERSONAL PROTECTION

INDUSTRIAL HYGIENE STANDARDS AND OCCUPATIONAL EXPOSURE LIMITS

Components	OSHA	ACGIH	MANUFACTURER
alkaline-earth-silicate (calcium-magnesium- silicate) fiber	Otherwise Regulated (PNOR) : Total Dust 15 mg/m³. Respirable Fraction 5 mg/m³	Particulates Not Otherwise Classified (PNOC) : Inhalable particulate 10 mg/m³. Respirable particulate 3 mg/m³	See below*

^{*} As with most industrial materials, it is prudent to minimize unnecessary exposure to respirable dusts. Note that Industrial hygiene standards and occupational exposure limits differ between countries and local jurisdictions. Check with your employer to identify any "respirable dust", "total dust" or "fiber" exposure standards to follow in your area. If no regulatory dust or fiber control standard apply, a qualified industrial hygiene professional can assist with a specific evaluation of workplace conditions and the identification of appropriate respiratory protection practices. In the absence of other guidance, the supplier has found that it is generally feasible to control occupational fiber exposure to 1 f/cc or less.

ENGINEERING CONTROLS:

Dust suppressing control technologies such as local exhaust ventilation, point of generation dust collection, down draft work stations, emission controlling tool designs, and materials handling equipment are effective means of minimizing airborne fiber emissions.

PERSONAL PROTECTION EQUIPMENT

Skin Protection:

Wear gloves, head coverings and full body clothing as necessary to prevent skin irritation. Washable or disposable clothing may be used. If possible, do not take unwashed clothing home. If soiled work clothing must be taken home, employers should ensure employees are thoroughly trained on the best practices to minimize or avoid non-work dust exposure (e.g., vacuum clothes before leaving the work area, wash work clothing separately, rinse washer before washing other household clothes, etc.).

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Eye Protection:

Wear safety glasses with side shields or other forms of eye protection in compliance with appropriate OSHA standards to prevent eye irritation. The use of contact lenses is not recommended, unless used in conjunction with appropriate eye protection. Do not touch eyes with soiled body parts or materials. If possible, have eye-washing facilities readily available where eye irritation can occur.

Respiratory Protection:

When effective engineering and/or administrative controls are insufficient, the use of appropriate respiratory protection, pursuant to the requirements of OSHA 1910.134, is recommended. For dust concentrations below the applicable exposure limit value, PPE is not required. The evaluation of workplace hazards and the identification of appropriate respiratory protection is best performed on a case by case basis, by a qualified Industrial Hygienist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White, fibrous wool	nite, fibrous wool Upper/lower flammability Not applicable or explosive limits		
Odor	Odorless	Vapor pressure	Not applicable	
Odor threshold	Not applicable	Vapor density	Not applicable	
рН	Not applicable	Relative density	2.60	
Melting point	1260° C (2300° F)	Solubility	Insoluble	
Initial boiling point	Not applicable	Partition coefficient:	Not applicable	
and boiling range		n-octanol/water		
Flash point	Not applicable	Auto-ignition temperature	Not applicable	
Evaporation rate	Not applicable	Decomposition	Not applicable	
		temperature		
Flammability	Not applicable	Viscosity	Not applicable	

10. STABILITY AND REACTIVITY

REACTIVITY Not Applicable.

CHEMICAL STABILITY: Stable under conditions of normal use.

POSSIBILITY OF HAZARDOUS Not Applicable.

REACTIONS:

CONDITIONS TO AVOID: None.

INCOMPATIBLE MATERIALS: None known.

HAZARDOUS DECOMPOSITION PRODUCTS:

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11. TOXICOLOGICAL INFORMATION

EPIDEMIOLOGY

This product has not been the subject of epidemiological study. Epidemiological studies related to other fiber chemistries of similar solubility have not identified a statistically significant incidence of exposure-related respiratory disease.

TOXICOLOGY

This product possesses a fiber chemistry within the regulatory (European Commission Directive 97/69/EC, now 1.1.3.1. (Nota Q) of Annex VI of regulation (EC) 1272/2008) definition as a "man-made vitreous (silicate) fiber with random orientation with alkaline oxide and alkaline earth oxide (Na2O + K2O + CaO + MgO + BaO) content greater than 18% by weight". CCEWOOL® fibers have been tested pursuant to EU protocol ECB/TM/26, rev. 7, Nota Q, Directive 97/69/EC (now 1.1.3.1. (Nota Q) of Annex VI of regulation (EC) 1272/2008). The results for the short term biopersistence test by inhalation (IH test) was 7 days; well below the regulatory threshold of 10 days cited in the directive. Based on testing results, CCEWOOL® based products are not regarded as potential carcinogens and they ARE EXEMPT from European classification as such. By virtue of these test results, these products ARE EXEMPT from European regulatory guidelines that require hazard warning labels with specific risk phrases citing respiratory disease potential. In addition, CCEWOOL® fibers have been tested in an independent laboratory, by intratracheal (IT test) instillation, under a protocol that was consistent with the requirements of the German Hazardous Substances Ordinance (BGBI. I pp. 1782, 2049, Third Amendment, Appendix V, No. 7).

Irritant Properties

The definition of "skin irritation" contained in the hazard communication standard, 29 CFR 1900.1200, Appendix A.2.1.1, is "the production of reversible damage to the skin following the application of a test substance for up to 4 hours." When tested using approved methods (for example EU Directive 67/548/EC, Annex V, Method B4), fibers contained in this material give negative results. Consequently, the first Adaptation of Technical Progress of regulation (EC) N°1272/2008 of 10 August 2009 removed the skin irritancy classification for man-made vitreous (silicate) wools. The fiber contained in this product is an inert material which doesn't interact chemically with exposed skin. However, there is a possibility that exposure to this product may cause temporary mechanical irritation to the eyes, skin or respiratory tract (nose, throat, lungs). This temporary irritation can be mitigated with proper handling practices designed to

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limit exposure and the use of protective clothing (glasses, gloves, clothing).

CCEWOOL® is not listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) nor has been found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition), or by OSHA.

12	ECOL (OCIC VI	INFORMATION	
17.	TUUN (MILL AL	IINFURIVIATION	

Ecotoxicity Ur

Persistence and degradability Bioaccumulative potential

Mobility in soil

Unlikely to be hazardous to aquatic life.

The product shows no evidence for biodegradability.

Low potential for bioaccumulation.

No mobility in soil.

13. DISPOSAL CONSIDERATIONS

WASTE MANAGEMENT

To prevent waste materials from becoming airborne during waste storage, transportation and disposal, a covered container or plastic bagging is recommended.

DISPOSAL

CCEWOOL® fiber, as manufactured, is not classified as a hazardous waste according to Federal regulations (40 CFR 261). Any processing, use, alteration or chemical additions to the product, as purchased, may alter the disposal requirements. Under Federal regulations, it is the waste generator's responsibility to properly characterize a waste material, to determine if it is a "hazardous" waste. Check local, regional, state or provincial regulations to identify all applicable disposal requirements.

EUROPEAN UNION

Waste from this product is not classified as "hazardous" or "special" under European Union regulations. Disposal is permitted at landfills licensed for industrial waste.

14. TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION (DOT)

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Hazard Class: Not Regulated United Nations (UN) Number: Not Applicable North America (NA) Number: Not Applicable Labels: Not Applicable

Placards: Not Applicable **Bill of Lading: Product Name**

INTERNATIONAL

Canadian TDG Hazard Class & PIN: Not regulated

Not classified as dangerous goods under ADR (road), RID (train) or IMDG (ship).

15. REGULATORY INFORMATION

UNITED STATES REGULATIONS

EPA: Superfund Amendments and Reauthorization Act (SARA) Title III - This

product does not contain any substances reportable under Sections 302,

304, 313, (40 CFR 372). Sections 311 and 312 (40 CFR 370) apply

(delayed hazard).

Toxic Substances Control Act (TSCA) - AES fiber has been assigned a CAS number; however; it is an "article" under TSCA and therefore

exempt from listing on the TSCA inventory.

Comprehensive Environmental Response, Compensation and Liability Act(CERCLA) and the Clean Air Act (CAA) -CCEWOOL® contains fibers with an average diameter greater than one micron and thus is not

considered a hazardous air pollutant.

OSHA: Comply with Hazard Communication Standards 29 CFR 1910.1200 and

29 CFR 1926.59 and the Respiratory Protection Standards 29 CFR

1910.134 and 29 CFR 1926.103.

CCEWOOL® products are not known to be regulated. However, state and States:

local OSHA and EPA regulations may apply to these products. If in doubt,

contact your local regulatory agency.

INTERNATIONAL REGULATIONS

Canada: **Canadian Workplace Hazardous Materials Information System (WHMIS):**

No Canadian Workplace Hazardous Materials Information System

(WHMIS) categories apply to this product.

Canadian Environmental Protection Act (CEPA) - All substances in this product are listed, as required, on the Domestic Substance List (DSL)

Directive 97/69/EC - By virtue of testing results, CCEWOOL ® fiber

European Union has been exempted from classification and labeling as a potential

Carcinogen.

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16. OTHER INFORMATION

After-Service CCEWOOL® Thermal Insulation: Removal

As produced, CCEWOOL® fibers are vitreous (glassy) materials, which do not contain crystalline silica. Continued exposure to elevated temperatures may cause these fibers to devitrify (become crystalline). The first crystalline formations to occur are diopside and wollastonite, which begin to form at about 900° C (1652° F). Under recommended usage, it is unlikely that CCEWOOL fibers will be exposed to the temperatures and conditions required for the formation of crystalline phase silica. The occurrence and extent of crystalline phase silica formation is highly dependent on temperature, the duration of time that the fibers are exposed to high temperatures, fiber chemistry, and the presence of fluxing agents. The presence of crystalline phase silica can only be confirmed through laboratory analysis of the "hot face" fiber.

IARC's evaluation of crystalline silica states "Crystalline silica inhaled in the form of quartz or cristobalite from occupational sources is carcinogenic to humans (Group 1)" and additionally notes "carcinogenicity in humans was not detected in all industrial circumstances studied" (IARC Monograph Vol. 68, 1997). NTP lists all polymorphs of crystalline silica amongst substances which may "reasonably be anticipated to be carcinogens".

During removal operations, the use of a full face respirator is recommended to reduce inhalation exposure along with eye & respiratory tract irritation. A specific evaluation of workplace hazards and the identification of appropriate respiratory protection is best performed, on a case by case basis, by a qualified industrial hygiene professional. For more detailed information regarding respirable crystalline silica, call the Product Stewardship Information Hotline.

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