

MATERIAL SAFETY DATA SHEET

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Manufacturer's
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Person Responsible for
Preparation: Terry Newhouse

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SECTION 1 - IDENTITY

Common Name: CB Unisub

CAS No: NA

Trade name & Synonyms: Cellulose fiber cement Chemical Family: Cement

Description: A mixture of silica, calcium silicate, cellulose and hydrous aluminum silicate

Formula: Mixture

SECTION 2 - HAZARDOUS INGREDIENTS

Principal Hazardous Component (s): **This material is cement board (CB). As such it is essentially inert (non-toxic) during handling and storage. This MSDS also discusses potential hazards that may be created in the sublimation process. However only information specific to CB is included as required. PLEASE NOTE: Other components used in the sublimation process such as inks are separate materials and are not covered in this MSDS.**

<u>Chemical & common names:</u>	1999 ACGIH_Threshold <u>Limit Value:</u>	OSHA <u>PEL :</u>
Silica (quartz)	0.1 mg/M3	<u>10</u> mg/M3 %SiO ₂ +2
Calcium silicate	10 mg/M3	15 mg/M3 total 5 mg/M3 resp.
Cellulose	10 mg/M3	15 mg/M3 total 5 mg/M3 resp.
Hydrous aluminum silicate (Kaolin)	2 mg/M3	15 mg/M3 total 5 mg/M3 resp.

NOTE : The following materials were detected at the exposure levels listed below in a test of 8 hour Time Weighted Average exposures during the sublimation process in a small un-vented room (to simulate worst case conditions). No odor was noted in this controlled situation.

Chemical name: Concentration
Respirable dust None detected (<0.246 mg/M3)

Total dust None detected (<0.216 mg/M3)

Since no dust was detected, silica was also undetected.

SECTION 3 - PHYSICAL & CHEMICAL CHARACTERISTICS

Boiling Point: NA		Specific Gravity: >1
Vapor Pressure (mm Hg): NA	Percent Volatile by Volume (%): 0	Vapor Density (Air = 1): NA
Evaporation Rate (butyl acet = 1): NA	Solubility in Water: 0.	Reactivity in Water: None known

Appearance and Odor: CB Unisub is shaped as a flat panel. It has no odor. The inks used in the sublimation or engraving process could create an odor.

FIRE AND EXPLOSION DATA

Flash Point: NA	Flammable Limits in Air % by Volume:	<u>Lower</u> NA	<u>Upper</u> NA
Extinguisher Media: NA	Auto-Ignition Temperature: not available		

Special Fire Fighting Procedures: This material is a cement board.

Unusual Fire and Explosion Hazards: None

SECTION 4 - PHYSICAL HAZARDS

Stability: Stable Conditions to Avoid: None known

Incompatibility (Materials to Avoid): None known

Hazardous Decomposition Products: None

The actual sublimation process may emit extremely small amounts of dust containing silica, calcium silicate cellulose and hydrous aluminum silicate. Tests have shown that concentrations were well below the TLV and PEL for these substances.

Hazardous Polymerization: Will not occur

SECTION 5 - HEALTH HAZARDS :

Product is a solid sheet of cement board product. No chemical hazards are anticipated during handling and storage. The following information was developed for the products potentially produced during the sublimation process

Primary Routes of Exposure:

Inhalation- Very small amounts of dust can be produced during grinding, cutting, drilling, sanding, etc. processes.

Cement Dust -Dust may cause nasal dryness, irritation, and obstruction.
Repeated Silica dust overexposures can cause silicosis.

Eye Contact: Dust can also cause mechanical irritation.

Skin Contact: Dust can also cause mechanical irritation.

Ingestion: Not likely to occur.

Signs and Symptoms of Overexposure:

Inhalation: Irritation, coughing, tightness of chest and/or shortness of breath.

Eye Contact: Irritation

Skin Contact: Irritation

Ingestion: None known

Effects of Overexposure: Respiratory system effects e.g. silicosis

Medical Conditions Generally Aggravated by Exposure: Respiratory system conditions

Chemical Listed as Carcinogen or Potential Carcinogen: Silica (quartz) is listed by IARC as carcinogenic to humans.

Emergency and First Aid Procedures:

Inhalation: Acute hazard is unlikely. Remove from further exposure. Keep warm and at rest. If not breathing, give artificial respiration. If breathing is difficult, trained personnel should administer oxygen. Seek immediate medical attention.

Eyes: Flush eyes with large amounts of water.

Skin: Hazard is unlikely. Wash affected areas with soap and water. Get medical advice if rash or persistent irritation or dermatitis occurs.

Ingestion: Not probable

Primary Routes of Exposure: Hazard is unlikely during sublimation process. Possible inhalation of silica dust if cutting , grinding etc. on product.

SECTION 6 - SPECIAL PROTECTION INFORMATION :

Respiratory Protection : Usually not necessary to reduce exposures to TLV during anticipated normal use. Sanding, cutting, drilling, etc. can create silica dust. If requested, or if TLVs are exceeded; use particulate filtration system with a respirator type appropriate for the exposure level

Ventilation: Usually not necessary to reduce exposures to TLV during normal use
General or local exhaust may be necessary to minimize ink odors in small rooms. **All confined space work should be done in accordance with OSHA 1910.146.**

Protective Gloves: Possible material handling hazard (cuts, abrasion) Use cloth or leather if necessary or requested

Eye Protection: Safety glasses required.

Other Protective Clothing or Equipment: None known.

SECTION 7 - SPECIAL PRECAUTIONS AND SPILL/LEAK PROCEDURES

Precautions to be Taken in Handling and Storage: None known, it is cement board product.

Other Precautions: Use sufficient local or general ventilation to reduce any odors from inks

Steps to be Taken in Case Material is Released or Spilled: Currently none for product. It is a cement board product

Waste Disposal Methods:. Currently none for product. It is a cement board.