



IN THE EVENT OF A CHEMICAL EMERGENCY INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT THE BELOW NUMBERS.

EMERGENCY 24 HOUR NUMBER GENERAL INFORMATION NUMBER

CHEMTREC 1-800-424-9300

MAPEI 1-954-246-8888

Material Safety Data Sheet

CPSC STATEMENT

CAUTION - EYE IRRITANT. NON-TOXIC.

DOT HAZARD CLASSIFICATION

Not Regulated

Handwritten: IS ADHESIVE

IDENTITY (As shown on label):

Ultra/Bond ECO 100

Handwritten: 10-20-03

Solvent Free, Standard Grade Multipurpose Adhesive

SECTION I - GENERAL INFORMATION

MANUFACTURER: MAPEI CORPORATION
1144 East Newport Center Drive
Deerfield Beach, FL 33442
PREPARED BY: Donald House
Manager of Product and Employee Safety

PRINT DATE: Friday, July 13, 2001

SECTION II - PHYSICAL CHARACTERISTICS

Maximum VOC 0g/L
Boiling Point 212°F
Vapor Pressure (mmHg) 1.0
Vapor Density (AIR=1) 1.14
Specific Gravity (H2O=1) 1.1
Melting Point (F) N/A
Evaporation Rate (Butyl Acetate=1) Same as water.
Solubility in water Dispersible
Appearance and Odor Beige paste. Slight rubber odor.
VOC calculated per (Rule 1168, South Coast Air Quality District - California)

SECTION III - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (specific chemical identity; common names): OSHA (PEL) ACGIH (TLV-TWA) Other Limits Recommended % Percent (Optional)
THIS PRODUCT CONTAINS NO HAZARDOUS INGREDIENTS AS DEFINED BY THE OSHA HAZARD COMMUNICATION STANDARD - 29 CFR 1910.1200.

FOR CALIFORNIA: THIS PRODUCT CONTAINS NO CHEMICALS REPORTABLE UNDER PROPOSITION 65.

HMIS (Hazardous Materials Identification System) Rating: Health - 1 Fire - 0 Reactivity - 0 Protection - B

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (F) - N/E Lower Explosive Limit (%) - N/E Upper Explosive Limit (%) - N/E

Extinguishing Media

Product will not burn until all water content has evaporated. Water spray, carbon dioxide, dry chemical or foam.

Special Fire Fighting Procedures

Wear standard fire fighting gear with self-contained breathing apparatus.

Unusual Fire and Explosion Hazards

Some decomposition products may be harmful.

SECTION V - REACTIVITY DATA

STABILITY: Stable

Conditions to Avoid None known.

Incompatibility (Materials to Avoid)

Strong oxidizing agents, strong acids, and strong bases.

Hazard Decomposition of By-products

Carbon monoxide, carbon dioxide, oxides of nitrogen, and other unidentified organic compounds.

POLYMERIZATION: Will Not Occur

Conditions to Avoid

None known.

SECTION VI - HEALTH HAZARD DATA

ROUTES OF ENTRY: Inhalation? YES Skin? YES Ingestion? YES

HEALTH HAZARDS (ACUTE AND CHRONIC)

Acute: Inhalation or contact can cause irritation to eyes, skin, nose or throat to sensitive people. If ingested can cause nausea, vomiting, griping, and diarrhea.

Chronic: See Section III of MSDS.

CARCINOGENICITY: NTP - NO IARC - NO OSHA - NO

Signs and Symptoms of Overexposure

Nausea; vomiting; nose and throat irritation; eye irritation; and skin irritation.

Medical Conditions That Can Be Aggravated by Exposure

Allergies, skin and respiratory disorders. Product sensitivity.

EMERGENCY AND FIRST AID PROCEDURES

- Eyes -** Flush with cool water for 15 minutes while holding eyelid open. If irritation persists, seek medical attention immediately.
- Skin -** Avoid contact with skin. Remove contaminated clothing. Wash affected area thoroughly with soap and water. If irritation persists, seek immediate medical attention.
- Inhalation -** Remove to fresh air. If not breathing, trained personnel should initiate artificial respirations and immediate medical attention should be obtained.
- Ingestion -** Do not induce vomiting. Do not give anything by mouth to an unconscious person. Seek medical attention immediately.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

Steps to be taken if Material is Leaked or Spilled

While using appropriate protective equipment, place spilled material in poly drum, or container requirement by local disposal company, and store in a safe place till material can be disposed of in accordance with regulations.

Waste Disposal Method

Dispose of in accordance with local, state, and federal regulations governing your location.

Precautions to be taken during Handling and Storage

Keep container closed when not in use. Store at 60-95°F and out of the sun. Use adequate ventilation to avoid breathing vapors when cover is removed.

Other Precautions

Avoid prolonged skin contact.

SECTION VIII - CONTROL MEASURES

Respiratory Protection: If workplace exposure limit of product is exceeded, a NIOSH/MSHA approved air supplied respirator is required in absence of proper environmental control. Engineering or administrative controls should be implemented to reduce exposure.

VENTILATION:	Local Exhaust	Special
	Use in WELL VENTILATED areas only.	N/A
	Mechanical	Other
	Use only intrinsically safe devices.	N/A
Eye Protection -	Safety glasses or goggles as necessary to prevent eye contact.	Protective Gloves - Impervious. (Nitrile, rubber, or better)

Other Protective Equipment - As needed to minimize contact with skin.

WORK AND HYGIENE PRACTICE

Remove contaminated clothing immediately. Wash hands, after each use and before eating, drinking, or using toiletries. Minimize contact of product on skins.

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. MAPEI Corporation assumes no responsibility for personal injury or property damage to vendees, users, or third parties caused by the material. Such vendees or users assume all risks associated with the use of the material.

~~CONFIDENTIAL~~
MATERIAL SAFETY DATA SHEET

MSDS Name: CLARIDGE 16A CHALK BOARD ADHESIVE
SDS Number: CLARIDGE 16A

MSDS Last Updated: JAN-22-2003
Page Number: 1

Printed On: 01/22/03

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SECTION I - PRODUCT AND COMPANY INFORMATION
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Product Name: CLARIDGE 16A CHALK BOARD ADHESIVE MIXTURE
CAS Number:
Hazard Rating: Health: 2 Fire: 3 Reactivity: 0 PFI: B

Company Identification: ITW TACC
AIR STATION INDUSTRIAL PARK
ROCKLAND MA 02370

Telephone/Fax: (781) 878-7015 (781) 871-6727
Chemtrec (24 Hour): (800) 424-9300

Trade Name: CLARIDGE 16A CHALK BOARD ADH.
Product Code: 333, 334, 335
DOT Hazard Class: 3
UN Number: 1133
Shipping Name: ADHESIVES
Packaging Group: II

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SECTION II - HAZARDOUS INFORMATION
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Ingredient Name	CAS Number	Percent	TSCA
LIGHT ALIPHATIC NAPHTHA	64742-89-8	10-30	Y
HEXANE	110-54-3	3-7	Y
CYCLOHEXANE	110-82-7	1-5	Y
SILICA, QUARTZ	14808-60-7	0.1-1.0	Y

Respirable crystalline silica (quartz) can cause silicosis, a fibrosis (scarring) of the lungs. Silicosis may be progressive; it may lead to disability and death. Crystalline silica (quartz) inhaled from occupational sources is classified as carcinogenic to humans.

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SECTION III - PHYSICAL DATA

Appearance/Color: TAN
Boiling Range: 156.°F
Evaporation Rate: Faster than n-Butyl Acetate
% Volatile Weight: 34.56%
% Volatile Volume: Not Available
Specific Gravity: 1.171
Weight/Volume Measure: 9.1332
EPA Method 24 VOC: 378.1 g/L

Photo Chem Reactive Only VOC: 378.1

SECTION IV - FIRE AND EXPLOSION HAZARD DANGER

Flammability Class: IB
Flash Range: 0 F
Tag Closed Cup
Explosive Range: 1.%
7.5%

EXTINGUISHING MEDIA:
Foam, dry chemical, carbon dioxide, water spray or fog.
SPECIAL FIREFIGHTING PROCEDURES:
Wear a self-contained breathing apparatus.
UNUSUAL FIRE & EXPLOSION HAZARDS:
Vapors are heavier than air and may travel to an ignition source distant from the material handling point.

SECTION V - HEALTH HAZARD DATA

PERMISSIBLE EXPOSURE LEVEL:
SEE SECTION VIII.
EFFECTS OF OVEREXPOSURE:
INHALATION: Materials are low in volatility and therefore not likely to pose a problem.
EYES: May cause minor irritation.
SKIN: Not likely to be absorbed in toxic amounts. Avoid skin contact as much as possible; upon repeated contact, slight skin irritation may occur.
INGESTION: None reported, not likely route of entry.
FIRST AID:

MATERIAL SAFETY DATA SHEET

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INHALATION: Get fresh air.
EYES: Flush with water for at least 15 minutes.
SKIN: Wash with mild soap and water; apply a mild cream.
INGESTION: Small amounts are not expected to produce adverse health effects. Larger amounts should be recovered by aspiration. Call a physician.

SECTION VI - REACTIVITY DATA

Stability: This product is stable
Hazardous Polymerization: Hazardous polymerization will not occur

INCOMPATIBILITY: Strong oxidizing agents, strong acids and bases.
CONDITIONS TO AVOID: Fire, sparks, static electricity.
HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide, carbon dioxide.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:
Keep spectators away. Eliminate all ignition sources (flames, hot surfaces and sources of electrical, static or frictional sparks). Dike and contain spill with inert material (e.g. sand, earth). Transfer liquids to covered metal containers for recovery or disposal, or remove with inert absorbent. Use only non-sparking tools. Place absorbent diking materials in covered metal containers for disposal. Prevent contamination of sewers, streams and groundwater with spilled material or used absorbent.

WASTE DISPOSAL METHOD:
Dispose in accordance with federal, state and local regulations.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits:

	ACGIH TLV	ACGIH TLV-C	ACGIH STEL	OSHA STEL	OSHA PEL
LIGHT ALIPHATIC NAPHTHA	100.00 PPM	N/est	N/est	N/est	500.00 PPM

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HEXANE	400.00 PPM	N/est	500.00 PPM	N/est	500.00 PPM
CYCLOHEXANE	200.00 PPM	N/est	N/est	N/est	200.00 PPM
SILICA, QUARTZ	0.10 mg/M3	N/est	N/est	N/est	0.10 mg/M3

RESPIRATORY PROTECTION:

If workplace exposure limit of product is exceeded, a NIOSH/MSHA approved air supplied respirator must be used in absence of proper environmental control. Engineering or administrative controls should be implemented to reduce exposure.

VENTILATION:

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below PEL.

PROTECTIVE GLOVES:

Chemical resistant gloves.

EYE PROTECTION:

Chemical splash goggles in compliance with OSHA regulations are advised.

OTHER PROTECTIVE EQUIPMENT:

To prevent repeated, prolonged skin contact, wear impervious clothing and boots.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Keep container closed when not in use. Store at 60-95 degrees F and out of the sun. Use adequate ventilation to avoid breathing vapors when cover is removed. Ground all equipment when handling flammable solventborne materials.

OTHER PRECAUTIONS:

For professional or industrial use only. Follow label instructions. Keep out of the reach of children. Not for consumption. No smoking. Do not breathe fumes. Avoid contact with body. Turn off all pilot lights, flames, stoves, heaters, electric motors, welding equipment and other sources of ignition. Close all containers when not in use. Empty containers must not be washed and re-used for any purpose. Contact lens wearers take appropriate precautions. Wash hands thoroughly after handling.

For spray applications, use only with approved spray equipment.

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MSDS Name: CLARIDGE 16A CHALK BOARD ADHESIVE
MSDS Number: CLARIDGE 16A

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For flammable products, vapors may cause flash fire or ignite explosively. To prevent buildup of vapors, use adequate ventilations (e.g. open all windows and doors to achieve cross-ventilation). Containers may be hazardous when empty. Never use welding or cutting torch on or near container.

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SECTION X - ADDITIONAL REGULATORY INFORMATION
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-SARA TITLE III SECTION 313:
This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

Ingredient Name	CAS Number	Percent
HEXANE	110-54-3	3-7
CYCLOHEXANE	110-82-7	1-5

-PROP 65 (CARCINOGEN)
WARNING: This product contains a chemical known to the state of California to cause cancer.

Ingredient Name	CAS Number	Percent
SILICA, QUARTZ	14808-60-7	0.1-1.0

The following ingredients are registered for TSCA 12B

Ingredient Name	CAS Number	Percent
HEXANE	110-54-3	3-7
CYCLOHEXANE	110-82-7	1-5

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DISCLAIMER
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***** NOTICE *****

This information is furnished without warranty, expressed or implied, except that it is accurate to the best knowledge of ITW TACC. The data on this sheet relates only to the specific material designated herein. ITW TACC assumes no legal responsibility for use or reliance upon these data.