

MATERIAL SAFETY DATA

UNION CARBIDE CORPORATION
4625 ROYAL AVENUE IN NIAGARA FALLS, NEW YORK 14302
TELEPHONE: (716) 225 - 3311 Ext. 6567

PRODUCT: Chrysotile Asbestos CHEMICAL FORMULA: $Mg_3(OH)_4Si_2O_{10}$
TRADE NAMES: Calidria Asbestos

I. PHYSICAL DATA

BOILING POINT AND MELTING POINT: Not Pertinent
SPECIFIC GRAVITY ($H_2O = 1$): 2.45
VOLATILE CONTENT: Absorbed Water 1 - 4% By Weight. Structural Water Approximately 13% by Weight.
APPEARANCE: Pellets or Fine White Powder. (No odor. Very Slight Solubility in Water.

II. HAZARDOUS INGREDIENTS

Not Applicable.

III. FIRE AND EXPLOSION HAZARD DATA

Material is not Combustible. No Fire or Explosion Hazard.

IV. REACTIVITY DATA

INERT MATERIAL: No Decomposition or Polymerization Conditions.

V. HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE: AIRBORNE CONCENTRATION

The 8-hour time-weighted average airborne concentration of asbestos dust to which employees are exposed shall not exceed 5 fibers per milliliter greater than 5 microns in length, as determined by the membrane filter method at 400-450X magnification (4 millimeter objective) phase contrast illumination. Concentrations above 5 fibers per milliliter but, not to exceed 10 fibers per milliliter, may be permitted up to a total of 15 minutes in an hour for up to 5 hours in an 8-hour day. (Per Emergency Standards of OSHA, Federal Register, Volume 76, December 7, 1971, Pages 22267-22268)

EFFECTS OF OVEREXPOSURE: Prolonged over exposure may result in lung damage.

EMERGENCY AND FIRST AID PROCEDURES: (If applicable, Material has no acute toxicity.

VI. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: Avoid inhalation of dust. Remove spilled material by vacuum cleaner.

WASTE DISPOSAL METHOD: Waste and scrap should be collected and disposed of in sealed bags or other sealed containers. Burial or landfill suggested.

VII. SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

AIRBORNE CONCENTRATION ⁽¹⁾		REQUIRED MASK TYPE	TYPICAL MASK
8 HOUR EXPOSURE ⁽²⁾	15 MINUTE EXPOSURE ⁽³⁾		
5 maximum	10 maximum	None required.	—
25 maximum	50 maximum	U.S. Bureau of Mines Schedule 21B. Negative pressure on breathing. Covers nose and mouth.	Willson Model 190B with R-520 Filter and M-S-A No. 56432 with Type H, Ultra Filter and others.
250 maximum	500 maximum	U.S. Bureau of Mines Schedule 21B Powered filter positive pressure.	Personal Environment Systems, Inc. Hood 330 or 351 with 1900 Series filter.
Over 250	—	U.S. Bureau of Mines Schedule 19B Type C positive pressure, air supplied.	Willson GAZ1 M-S-A Lead-Fee and others.

(1) Fibers per milliliter greater than 5 microns in length, as determined by the membrane filter method at 100-450X magnification (4 millimeter objective) phase contrast illumination.

(2) 8-Hour time weighted average.

(3) 15 Minutes in an hour for up to 5 hours in an 8-hour day.

Reference - Federal Register, Volume 36, Pages 23207 - 23208, December 7, 1971.

VENTILATION

Local exhaust for each operation is preferable. General area exhaust is acceptable. No special considerations.

PROTECTIVE GLOVES: None

EYE PROTECTION: None

OTHER PROTECTIVE EQUIPMENT: None

WASH YOUR FACE AND HANDS AFTER EACH USE

MINIMIZE DUSTING AND BAG DAMAGE. AVOID INHALATION OF DUST.

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