



Hill and Griffith Company Material Safety Data Sheet

PLAINTIFF'S EXHIBIT

H&G-74

May be used to comply with OSHA's Hazard Communication Standard, 29 CFR 1910.1200. Standard must be consulted for specific requirements.

N.A. = NOT APPLICABLE

N.E. = NOT ESTABLISHED

I. PRODUCT IDENTIFICATION

PRODUCT NAME (s): Concote™ 405

Manufacturer: The Hill & Griffith Co.

Address: 1085 Summer Street
Cincinnati, Ohio 45204

Telephone: (513) 921-1075 Fax: (513) 921-9180

EMERGENCY

TELEPHONE: (800) 424-9300

Call Chemtrec

II. HAZARDOUS MATERIAL IDENTIFICATION SYSTEM *

CATEGORY	RATING	LEGEND
Flammability	0	0=Minimal Hazard
Health	2	2=Moderate Hazard
Reactivity	0	0=Minimal Hazard
Personal Protection	A	A=Safety Glasses

* These ratings are based on NFPA regulations

III. HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	CAS.NO.	ACGIH THRESHOLD LIMIT VALUE	% RANGE	OSHA PERMISSIBLE EXPOSURE LIMIT
Olivine	1317-71-1	10 mg/m ³	60-70	5 mg/m ³
Bentonite	1302-78-9		0-10	
Quartz	14808-60-7			
Respirable Quartz (<1-2%)		0.05 mg/m ³		0.05 mg/m ³
Nuisance Dust		10 mg/m ³		5 mg/m ³ *
				5 mg/m ³ **

* Total Dust ** Respirable Fraction

This material contains crystalline silica. The International Agency for Research on Cancer (IARC) Monograph Silica, Some Silicates and Organic Fibres (Volume 68, 1997) has determined that crystalline silica in the form of quartz or cristobalite from occupational exposures, if inhaled, is carcinogenic to humans (IARC Group 1). Prolonged inhalation of silica dust may result in silicosis, a progressive, disabling, and sometimes fatal, lung disease. Avoid creating dusty conditions and use a NIOSH/MSHA approved dust respirator when Threshold limit Values (TLVs) may be exceeded.

This material contains olivine, which contains small amounts of nickel and chromium compounds. Nickel compounds are classified by IARC as "carcinogenic to humans" (Group 1) and by NTP as "reasonably anticipated to be a carcinogen." Chromium compounds are listed as "unclassifiable as to carcinogenicity in humans (Group 3) by IARC and "Not classifiable as a human carcinogen" by OSHA.

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IV. PHYSICAL/CHEMICAL PROPERTIES

Appearance and Odor: Gray slurry, no odor.

Water Solubility: Miscible.

Melting Point(°F): 32

Boiling Range(°F): 212

Specific Gravity(water=1): NE

Vapor Pressure(mmHg): 760

Percent Volatile By Weight: 35-50

Vapor Density(Air=1): NE
TPQ: NA

Evaporation Rate(Butyl Acetate=1): < 1
RQ: NA

V. FIRE AND EXPLOSION INFORMATION

Flash Point(C.O.C.)(°F): NA

Auto-Ignition Temperature(°F): NA

Flammable Limits: LEL: NA UEL: NA

Extinguishing Media: Not applicable

Unusual Fire or Explosion Hazards: High concentrations of dust in high heat environment may cause explosions.

Special Fire-Fighting Procedures: Use full facepiece with self-contained breathing apparatus when fighting fires near this product.

VI. CHEMICAL REACTIVITY INFORMATION

Conditions Contributing to Instability: High concentration of dust in a high temperature environment.

Incompatible Materials: NE

Conditions to Avoid: Dusting.

Hazardous Decomposition Products: Various oxides of carbon and hydrogen.

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VII. HEALTH HAZARDS A. Summary/Risks

Signs and Symptoms of Overexposure: Overexposure could result in coughing, sneezing, shortness of breath, or other respiratory problems. Other symptoms may result.

Medical Conditions Generally Aggravated by Exposure: May aggravate pre-existing medical conditions.

Primary Route(s) of Entry: Inhalation.

Target Organs: Eyes, and lungs.

Acute Health Effect: Overexposure could result in temporary mucous membrane or respiratory tract irritation.

Chronic Health Effect: Overexposure could result in irreversible mucous membrane or respiratory tract damage. Symptoms include cough, shortness of breath, and reduced pulmonary function. This product contains small amounts of nickel and chromium compounds. Hexavalent chromium has not been detected in the olivine (detection limit 0.1%). Overexposure to nickel and chromium compounds may cause respiratory and skin sensitization.

Carcinogenicity: See page 1. In the report the National Toxicology Program (NTP) classified respirable crystalline silica, primarily quartz dusts occurring in industrial and occupational settings, as *known to be a human carcinogen*, based on sufficient evidence of carcinogenicity from studies in humans indicating a causal relationship between exposure to respirable crystalline silica dust. In addition, the American Conference of Governmental Industrial Hygienists (ACGIH) has classified crystalline silica-quartz as an *A2 Suspected Human Carcinogen*. See page 1 for information on nickel and chromium compounds in the olivine. Olivine is not considered a carcinogen or suspected carcinogen by IARC, NTP, or OSHA.

Notes to Physician: None.

VII. HEALTH HAZARDS B. First Aid/Emergency Procedures

Inhalation: If overcome, immediately remove from exposure and seek medical attention.

Skin Contact/Absorption: Wash skin thoroughly with soap and water. If irritation develops, seek medical attention.

Eye Contact: Flush with clear flowing water for at least 15 minutes. If irritation persists, seek medical attention.

Ingestion: If ingested, DO NOT induce vomiting; call a physician immediately.

VIII. SPILL, LEAK AND WASTE DISPOSAL PROCEDURES

Procedures for clean up of spills/leaks: Stop spill as soon as possible. Scoop up or clean up using best means possible. Water may be used to clean area. Notify proper authorities if the need exists.

Waste Disposal: Waste generated during application, demolition, breakage or spillage may be hazardous wastes as defined by RCRA (40 CFR part 261). Place waste and spillage in closed containers. Dispose of in approved landfill in accordance with federal, state and local regulations.

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IX. PROTECTION AND CONTROL INFORMATION

Hygienic Practices: Minimize breathing vapors, mists, fumes or dusts. Avoid prolonged or repeated contact with skin. Remove contaminated clothes, launder before reuse. Remove contaminated shoes; clean before reuse.

Ventilation Requirements: Provide ventilation sufficient to prevent exceeding recommended exposure limits.

Respiratory Protection: Use NIOSH approved respirator for fine particulate filter for dusts, if Permissible Exposure Limits or Threshold Limit Values are exceeded or if the user deems necessary.

Eye Protection: Use safety glasses, splash goggles, or face shield when eye contact may occur.

Protective Gloves: Use chemical-resistant gloves, if needed, to avoid prolonged or repeated skin contact.

Other Clothing and Equipment: As required to prevent contact.

Engineering Controls/Work Practices: Keep containers and storage containers closed when not in use.

Special Considerations for Repair/Maintenance of Contaminated Equipment: Provide adequate respiratory, eye and skin protection.

X. PRECAUTIONS FOR SAFE HANDLING AND USE

Storage Segregation: Always segregate materials by major hazard class.

Special Handling/Storage: Do not transfer contents to unlabeled container(s).

Other: Comply with all federal, state and local regulations.

XI. DOT SHIPPING REQUIREMENTS

Shipping Name(s): Any Packaging

Compound, Thermal Insulating

Date Prepared: 02/11/02

Supersedes: 08/15/01

Print Date: 02/11/02

Prepared by: Lori R. Yeager

Title: Corporate Government Regulatory Specialist

As of the date of preparation of this document, the forgoing information is believed to be accurate and is provided in good faith to comply with applicable federal and state law(s). However, no warranty or representation with respect to such information is intended or given.

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HILL and GRIFFITH Company

Quality and Service Since 1896



FIRE	2
HEALTH	0
REACTIVITY	0
PERSONAL PROTECTION	A

CONCOTE™ 405

PART NUMBER

7270

LOT #

CAUTION: KEEP FROM FREEZING
FOR INDUSTRIAL USE ONLY
KEEP OUT OF REACH OF CHILDREN

NET: 640 LBS.

WARNING STATEMENTS

HAZARD:

HAZARDOUS IF SWALLOWED. MAY CAUSE IRRITATION IN SUSCEPTIBLE INDIVIDUALS. IRRITATION OF SKIN, EYES, NOSE OR THROAT. THIS MATERIAL CONTAINS FREE CRYSTALLINE SILICA. THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS DETERMINED THAT CRYSTALLINE SILICA IN THE FORM OF QUARTZ OR CHRISTOPHANE FROM OCCUPATIONAL EXPOSURES, IF INHALED, IS CARCINOGENIC TO HUMANS (IARC GROUP 1). Prolonged inhalation of silica dust may result in silicosis, a progressive, disabling, and sometimes fatal lung disease. AVOID CREATING DUSTY CONDITIONS AND USE A HIGHLY EFFICIENT APPROPRIATE RESPIRATOR WHEN THRESHOLD LIMIT VALUES (TLV) ARE EXCEEDED.

FIRST AID:

(EYES)—FLUSH WITH COPIOUS AMOUNTS OF WATER FOR 15 MINUTES. (SKIN)—WASH WITH COPIOUS AMOUNTS OF WATER FOR 15 MINUTES. (INHALATION)—REMOVE TO FRESH AIR. ADMINISTER OXYGEN IF BREATHING IS DIFFICULT. IN ALL CASES ABOVE, IF PHYSICIAN PERSISTS SEEK MEDICAL ATTENTION.

HANDLING:

WASH THOROUGHLY AFTER HANDLING. AVOID CONTACT WITH EYES OR PROLONGED SKIN CONTACT. STORE AWAY FROM HEAT SOURCES, PREFERABLY AT ROOM TEMPERATURE. DO NOT TRANSFER TO UNMARKED CONTAINERS. DO NOT PRESSURIZE OR REUSE THIS CONTAINER. SAFETY GLASSES AND GLOVES ARE RECOMMENDED WHEN HANDLING THIS PRODUCT. READ PRODUCT LITERATURE AND MATERIAL SAFETY DATA SHEET BEFORE USE.

DISPOSAL:

SMALL SPILLS CAN BE COLLECTED BY SCOPING UP AND WASHING CONTAMINATED AREA WITH SOAP AND WATER. LARGE SPILLS SHOULD BE CONTAINED AND KEPT OUT OF SEWERS, DRAINS AND WATER SOURCES. CLEAN UP BY SHOVEL AND WASH AREA WITH SOAP AND WATER. NOTIFY PROPER AUTHORITIES IF THE NEED EXISTS.

HAZARDOUS INGREDIENTS AND CAS NUMBERS

OLIVINE
BENTONITE
QUARTZ

1317-71-1
1302-78-9
14808-60-7

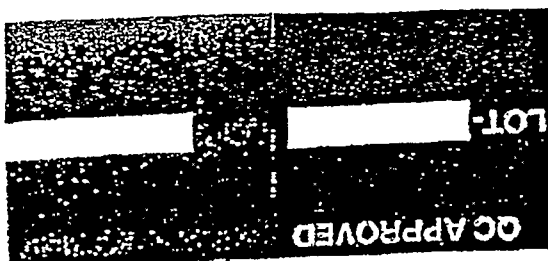


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3637 Farnsworth Avenue • Indianapolis, IN 46241 • Sales Central-Cincinnati 1-800-543-0425 • Sales Central-Indianapolis 1-800-428-3102

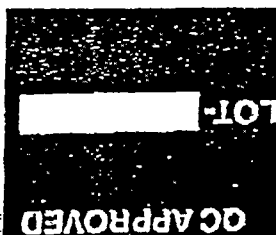
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QC APPROVED

LOT-



CONCOTE™ 405

PRODUCT

LOT NO.

