

MATERIAL SAFETY DATA SHEET

Abbreviations used on this Material Safety Data Sheet:

N/av. = Not available, N/ap. = Not applicable, ppm = parts per million, TLV = Threshold Limit Value.

NFPA Hazard Rating: 4 - Extreme, 3 - High, 2 - Moderate, 1 - Slight, 0 - None, X - Blank

WHMIS HAZARD: Moderate

NFPA HAZARD RATING: MODERATE

HEALTH - 2 , FLAMMABILITY - 2 , REACTIVITY - 1

SECTION 1 - PRODUCT IDENTIFICATION AND USE

PRODUCT IDENTIFIER:	ULTRA MARBLE HARDNER				
PRODUCT USE:	Powder Marble Treatment				
MANUFACTURER'S NAME:	ULTRA CHEM INDUSTRIES LTD.	SUPPLIERS NAME:			
STREET ADDRESS:	#1-7107 VENTURE STREET		STREET ADDRESS		
CITY:	DELTA	PROVINCE/STATE:	B.C.	CITY:	PROVINCE:
POSTAL CODE:	V4G 1H7	EMERGENCY TELEPHONE:	1-800-535-5053	POSTAL CODE:	EMERGENCY TELEPHONE:

SECTION 2 - HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENTS	%	CAS NUMBER	LETHAL DOSE (50%) OF INGREDIENT (SPECIFY SPECIES AND ROUTE)	LETHAL CONCENTRATION (50%) OF INGREDIENT (SPECIFY SPECIES AND ROUTE)
Calicum Aluminum Ethanedioic acid	10	144-62-7	375mg/Kg (oral, rat)	N/AV
Fatty acid aluminum salt	90	not regulated	N/AV	N/AV

SECTION 3 - PHYSICAL DATA

PHYSICAL STATE:	POWDER	ODOUR AND APPEARANCE: Odorless; White powder			THRESHOLD ODOUR (ppm):	N/AP			
VAPOUR PRESSURE: (mm Hg)	N/AP	VAPOUR DENSITY: (Air = 1)	N/AP	EVAPORATION RATE:(n-Butyl acetate = 1)	N/AP	BOILING POINT:	N/AP	FREEZING POINT:	N/AP
pH:	6.6	SPECIFIC GRAVITY: (Water = 1)	N/AP	COEFFICIENT OF WATER/OIL DISTRIBUTION: 100% WATER SOLUBLE					

SECTION 4 - FIRE AND EXPLOSION DATA

FLAMMABILITY IF YES, UNDER WHICH CONDITIONS?	Sparks, open flams and excessive heat				
YES	X	NO			
MEANS OF EXTINCTION:	Carbon dioxide, dry chemical, foam water fog				
SPECIAL PROCEDURES:	NORMAL FIRE-FIGHTING PROCEDURES				
FLASHPOINT AND METHOD:	None	UPPER FLAMMABILITY LIMIT: (% BY VOLUME)	N/AP	LOWER FLAMMABILITY LIMIT: (% BY VOLUME)	N/AP
AUTOIGNITION TEMPERATURE:	N/AP	HAZARDOUS COMBUSTION PRODUCTS:	OXIDES OF CARBON		
EXPLOSION DATA:	N/AP			SENSITIVITY TO STATIC DISCHARGE:	NO
SENSITIVITY TO IMPACT:					

SECTION 5 - REACTIVITY DATA

CHEMICAL STABILITY IF NO, UNDER WHICH CONDITIONS?	YES X NO				
INCOMPATIBILITY WITH OTHER SUBSTANCES IF YES, WHICH ONES?	YES X NO Oxidizable agents				
REACTIVITY, AND UNDER WHAT CONDITIONS?	EXCESSIVE HEAT, SPARKS AND OPEN FLAME				
HAZARDOUS DECOMPOSITION PRODUCTS:	CARBON MONOXIDE FORMIC ACID				

PRODUCT IDENTIFIER: **ULTRA MARBLE HARDENER**

SECTION 6 - TOXICOLOGICAL PROPERTIES

ROUTE OF ENTRY: SKIN CONTACT X SKIN ABSORPTION X EYE CONTACT X INHALATION X INGESTION X

EFFECTS OF ACUTE EXPOSURE TO PRODUCT:

Severe eye and skin irritant

EFFECTS OF CHRONIC EXPOSURE TO PRODUCT:

Prolonged contact may cause liver/kidney problems

EXPOSURE LIMITS: N/A	IRRITANCY OF PRODUCT: Severe eye and skin irritant	SENSITIZATION TO PRODUCT: May cause burns	CARCINOGENICITY: NO
TERATOGENICITY: N/A	REPRODUCTIVE TOXICITY: N/A	MUTAGENICITY: N/A	SYNERGISTIC PRODUCTS: N/A

SECTION 7 - PREVENTIVE MEASURES

PERSONAL PROTECTIVE EQUIPMENT:

GLOVES (SPECIFY): RUBBER OR NEOPRENE	RESPIRATOR (SPECIFY): Dust Mask	EYE (SPECIFY): CHEMICAL SPLASH GOGGLES
FOOTWEAR (SPECIFY): IMPERVIOUS	CLOTHING (SPECIFY): IMPERVIOUS CLOTHING	OTHER (SPECIFY): NO

ENGINEERING CONTROLS (SPECIFY, VENTILATION, ENCLOSED PROCESS):

MECHANICAL VENTILATION

LEAK AND SPILL PROCEDURE:

SWEEP UP AND SHOVEL INTO DOT APPROVED WASTE CONTAINERS

WASTE DISPOSAL:

ACCORDING TO LOCAL, PROVINCIAL AND FEDERAL GOVERNMENT REQUIREMENTS.

HANDLING PROCEDURES AND EQUIPMENT:

KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE

STORAGE REQUIREMENTS:

COOL, DRY AREAS, WELL VENTILATED PLACE. KEEP AWAY FROM OTHER CHEMICALS AND POTENTIAL SOURCES OF CONTAMINATION

SPECIAL SHIPPING INFORMATION:

EMPTY CONTAINERS CAN HAVE RESIDUES. TREAT AS FULL

TDG. UN NUMBER

N/AP

SECTION 8 - FIRST AID MEASURES

SPECIFIC MEASURES:

INGESTION: DO NOT INDUCE VOMITING. IF UNCONSCIOUS OR CONVULSING, DO NOT GIVE ANYTHING BY MOUTH. SEEK MEDICAL ATTENTION.

CONTACT WITH EYES: FLUSH WITH COPIOUS AMOUNTS OF POTABLE WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

CONTACT WITH SKIN: FLUSH WITH COPIOUS AMOUNTS OF POTABLE WATER. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

INHALATION: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF VICTIM IS NOT BREATHING OR IF BREATHING IS DIFFICULT. IF DISCOMFORT PERSISTS, SEEK MEDICAL ATTENTION.

SECTION 9 - PREPARATION DATE OF MSDS

PREPARED BY: ULTRA CHEM INDUSTRIES LTD. DIRECTOR TECHNICAL SERVICES	PHONE NUMBER: (604) 946-8357	DATE: OCTOBER 2004
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