

===== Product Identification =====

Product ID:AC-275 CLASS B BASE

MSDS Date:05/06/1999

FSC:8030

NIIN:00-602-0039

Status Code:A

MSDS Number: CLKHZ

=== Responsible Party ===

Company Name:ADVANCED CHEMISTRY & TECHNOLOGY

Address:7341 ANACONDA AVE

City:GARDEN GROVE

State:CA

ZIP:92841-2921

Country:US

Info Phone Num:714-373-2837

Emergency Phone Num:(800)424-9300

Preparer's Name:HENRY SIMMONS

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hemtre Ind/Phone:(800)424-9300

CAGE:1DWR5

=== Contractor Identification ===

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Country:US

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CAGE:1DWR5

===== Composition/Information on Ingredients =====

Ingred Name:LIMESTONE

CAS:1317-65-3

RTECS #:EV9580000

Minumum % Wt:30.

Maxumum % Wt:40.

OSHA PEL:15 MG/M3

ACGIH TLV:10 MG/M3

Ingred Name:CALCIUM CARBONATE

CAS:471-34-1

RTECS #:FF9335000

Minumum

% Wt:5.
Maxumum % Wt:10.

Ingred Name:TITANIUM DIOXIDE
CAS:13463-67-7
RTECS #:XR2275000
Minumum % Wt:1.
Maxumum % Wt:5.
OSHA PEL:15 MG/M3
ACGIH TLV:10 MG/M3

Ingred Name:FORMALDEHYDE
CAS:50-00-0
RTECS #:LP8925000
< Wt:.1
OSHA PEL:SEE 1910.1048
ACGIH STEL:C0.37 MG/M3;C0.3 PPM
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Health Hazards Acute and Chronic:LUNGS AND RESPIRATOR
Y SYSTEM.
Effects of Overexposure:EYE CONTACT: MAY CAUSE MECHANICAL IRRITATION
SKIN CONTACT: INCIDENTAL CONTACT IS NOT EXPECTED INHALATION
(BREATHING): EXPOSURE IS UNLIKELY INGESTION (SWALLOWING): EXPOSURE
IS UNLIKELY, MAY CAUSE N AUSEA, VOMITING, PAIN, AND STOMACH UPSET
(E.G., DIARRHEA)
Medical Cond Aggravated by Exposure:LUNGS AND RESPIRATORY SYSTEM

===== First Aid Measures =====

First Aid:EYE CONTACT: IMMEDIATELY FLUSH EYES WITH PLEN
TY OF WATER FOR
AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.
SKIN CONTACT: IMMEDIATELY FLUSH WITH WATER. REMOVE CONTAMINATED
CLOTHIN G AND SHOES. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.
PROFESSIONALLY WASH CLOTHING AND SHOES BEFORE RE-USE. INHALATION
(BREATHING): REMOVE TO FRESH AIR. IF SYMPTOMS DEVELOP, SEEK
IMMEDIATE MEDIC AL ATTENTION. IF NOT BREATHING, GIVE ARTIFICIAL
RESPIRATION. INGESTION (SWALLOWING): SEEK MEDICAL ATTENTION:
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IMMEDIATELY INDUCE VOMITING, AS DIRECTED BY MEDICAL PERSONNEL.
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

===== Fire Fighting Measures =====

Flash Point Method:SCC

Flash Point:>93.3C, 200.F

Extinguishing Media:SMALL FIRES: DRY CHEMICAL, CARBON DIOXIDE, HALON,
WATER SPRAY, OR FOAM. LARGE FIRES: WATER SPRAY, FOG, OR ALCOHOL
FOAM.

Fire Fighting Procedures:FIRE FIGHTERS AND OTHERS WHO MAY BE EXPOSED TO
THE PRODUCTS OF COMBUSTION SHOULD
BE EQUIPPED WITH NIOSH-APPROVED
POSITIVE PRESSURE SELF-CONTAINED BREATHING APPARATUS (SCBA) AND
FULL PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard:DURING A FIRE, IRRITATING AND HIGHLY
TOXIC GASES MAY BE GENERATED DURING COMBUSTION OR DECOMPOSITION.

===== Accidental Release Measures =====

Spill Release Procedures:ISOLATE HAZARD AREA. KEEP UNNECESSARY AND
UNPROTECTED PERSONNEL FROM ENTERING. SAFETY STOP DISCHARGE.
CONTAIN MATERIAL, AS NECESSARY, WITH A DIKE OR BARRIER. STOP
MATERIAL FROM CONTAMINATING SOIL, OR FROM ENTERING SEWERS OF
BODIES OF WATER. APPROPRIATE SAFETY MEASURES AND PROTECTIVE
EQUIPMENT SHOULD BE USED. USE SUPPLIED AIR RESPIRATOR OR
SELF-CONTAINED BREATHING APPARATUS IN ENCLOSED SPACES.

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED
AREA AWAY FROM HEAT, IGNITION SOURCES, AND DIRECT SUNLIGHT. KEEP
CONTAINERS TIGHTLY CLOSED.

TRANSFER- NO SPECIAL PRECAUTIONS ARE
NEEDED. FOLLOW GOOD MANUFACTURING AND HANDLING PRACTICES.

Other Precautions:THIS CONTAINER CAN BE HAZARDOUS WHEN EMPTY. FOLLOW
LABEL WARNINGS EVEN AFTER CONTAINER IS EMPTIED SINCE EMPTY
CONTAINERS MAY RETAIN PRODUCT RESIDUES. DO NOT REUSE EMPTY
CONTAINER WITHOUT PROFESSIONAL CLEANING FOR FOOD, CLOTHING, OR
PRODUCTS FOR HUMAN OR ANIMAL CONSUMPTION OR WHERE SKIN CONTACT CAN
OCCUR.

===== Exposure Contr

ols/Personal Protection =====

Respiratory Protection:AVOID BREATHING VAPOR OR MIST. WEAR NIOSH/MSHA-APPROVED EQUIPMENT. DETERMINE THE APPROPRIATE TYPE BY CONSULTING THE RESPIRATOR MANUFACTURER. HIGH AIRBORNE CONCENTRATION MAY NECESSITATE THE USE OF SELF CONTAINED BREATHING APPARATUS (SCBA) OR A SUPPLIED AIR RESPIRATOR. RESPIRATORY PROTECTION PROGRAMS MUST BE IN COMPLIANCE WITH 29 CFR 1910.134

Ventilation:LOCAL EXHAUST VENTILATION WHEN VAPORS, MISTS, OR DUSTS CAN BE RELEASED IN EXCESS OF ESTABLISHED AIRBORNE EXPOSURE LIMITS (TLV'S OR PEL'S)

Protective Gloves:WEAR PROTECTIVE CLOTHING AND APPROPRIATE IMPERVIOUS GLOVES.

Eye Protection:WEAR CHEMICAL SPLASH GOGGLES OR SAFETY GLASSES WITH SIDE SHIELDS.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING, ESPECIALLY BEFORE EATING, DRINKING, SMOKING, AND USING RESTROOM FACILITIES.

Supplemental Safety and Health

===== Physical/Chemical Properties =====

Spec Gravi

ty:1.61

Solubility in Water:INSOLUBLE

Appearance and Odor:OFF- WHITE PASTE AND SULFIDE ODOR

===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

OXIDIZERS, ACIDS

Stability Condition to Avoid:HIGH TEMPERATURES

Hazardous Decomposition Products:SMOKE, SOOT, AND TOXIC/IRRITATING FUMES (I.E., CARBON DIOXIDE, CARBON MONOXIDE, ETC). FORMALDEHYDE AND/OR OTHER ALDEHYDES. OXIDES OF SULFUR, HYDROGEN SULFIDE

===== Toxicologi
cal Information =====

Toxicological Information:LIMESTONE REPEATED EXPOSURE TO DUST CAN LEAD TO PARTICULATE IN THE LUNGS (I.E., PNEUCONIOSIS). CAN CONTAIN TRACE AMOUNTS OF CRYSTALLINE SILICA AS AN IMPURITY. CALCIUM CARBONATE: REPEATED EXPOSURE TO DUSTS CAN LEAD TO PARTICULATE IN THE LUNGS (I.E., PNEUCONIOSIS). TITANIUM DIOXIDE: IN A 2 YEAR STUDY, AN INCREASE IN BENIGN AND MALIGNANT LUNG TUMORS WERE OBSERVED AT 250-MG/M3 RESPIRABLE DUST LEVE L. THIS LEV

EL IS 50 TIMES THE
CURRENT OCCUPATIONAL EXPOSURE LEVEL AND IS NOT EXPECTED TO
CORRELATE TO HUMAN EXPOSURES. FORMALDEHYDE: SEVERELY IRRITATING
TO THE EYES, SKIN, AND RESPIRATORY TRACT.

===== Disposal Considerations =====

Waste Disposal Methods:DISPOSE OF ACCORDING TO APPLICABLE LOCAL, STATE
AND FEDERAL REGULATIONS OF THE METHODS OF DISPOSAL CURRENTLY
AVAILABLE, IT IS RECOMMENDED THAT AN ALTERNATIVE BE ACCORDING OR
THE FOLLOWING ORDER OF
PREFERENCE. BASED UPON ENVIRONMENTAL
ACCEPTABILITY. (1) RECYCLE OR REWORK, IF FEASIBLE; (2) INCINERATE
AT AN AUTHORIZED FACILITY.

===== Regulatory Information =====

SARA Title III Information:SECTION 311/312 HAZARD CATEGORIES-IMMEDIATE
HEALTH HAZARD
SARA SECTION 302 EXTREMELY HAZARDOUS MAT FORMALDEHYDE SARA
SECTION 313 TOXIC CHEMICALS FORMALDEHYDE
Federal Regulatory Information:UNITED STATES CHEMICAL COMPONENTS THIS
PRODUCT ARE ON THE SECTION 8(B) CHEMICAL SUBSTANCE INVENTORY LIST
(40 CFR 710)
State Regulatory Information:STATE RIGHT TO KNOW PENNSYLVANIA-NEW
JERSEY R-T-K LIMESTONE 1317-65-3 80-90% CALCIUM CARBONATE
474-34-1 5-10% TITANIUM DIOXIDE 13463-67-7 1.5% FORMALDEHYDE
50-00-0