

ADVANCED CHEMISTRY & TECHNOLOGY -- AC-236 CLASS B BASE -- 8030-00-080-1549

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

Product ID:AC-236 CLASS B BASE

MSDS Date:06/26/2000

FSC:8030

NIIN:00-080-1549

Status Code:A

MSDS Number: CLKFG

=== 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

Chemtrec Ind/Phone:(800)424-9300

CAGE:1DWR5

=== Contractor Identification ===

Company Name:ADVANCED CHEMISTRY & TECHNOLOGY

Address:7341 ANACONDA AVE

Box:City:GARDEN GROVE

State:CA

ZIP:92841-2921

Country:US

Phone:714-373-2837

CAGE:1DWR5

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

Ingred Name:LIMESTONE

CAS:1317-65-3

RTECS #:EV9580000

= Wt:38.5

OSHA PEL:15 MG/M3

ACGIH TLV:10 MG/M3

Ingred Name:CALCIUM CARBONA

TE
CAS:471-34-1
RTECS #:FF9335000
= Wt:3.

Ingred Name:TITANIUM DIOXIDE
CAS:13463-67-7
RTECS #:XR2275000
= Wt:2.5
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

Ingred Name:NON-HAZARDOUS AND OTHER INGREDIENTS BELOW REPORTABLE LEVELS

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

Routes of Entry: Inhalation:YES Skin:YES
Ingestion:NO
Health Hazards Acute and Chronic:LUNGS AND RESPIRATORY 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 PLENTY 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
R

ESPIRATION. INGESTION (SWALLOWING): SEEK MEDICAL ATTENTION:
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 O
THERS 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 OF
SELF-CONTAINED BREATHING APPARATUS IN ENCLOSED SPACES.

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

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED
AREA A

WAY 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 Controls/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 Gravity: 1.61

VOC Pounds/Gallon: 48

VOC Grams/Liter: .4

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). FOR

MALDEHYDE

AND/OR OTHER ALDEHYDES. OXIDES OF NITROGEN, METALLIC OXIDES.

=====
===== Toxicological 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 LEVEL. THIS LEVEL 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:SARA SECTION 302 EXTREMELY HAZARDOUS MAT FORMALDEHYDE SARA SECTION 313 TOXIC CHEMICALS FORMALDEHYDE

Federal Regulatory Information:UNITED STATES CH

EMICAL 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 38.5% CALCIUM CARBONATE

474-34-1 3% TITANIUM DIOXIDE 13463-67-7 2.5% FORMALDEHYDE

50-00-0