

ADVANCED CHEMISTRY & TECHNOLOGY -- AC-236 CLASS A BASE -- 8030-00-753-5008

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

Product ID:AC-236 CLASS A BASE

MSDS Date:06/22/2000

FSC:8030

NIIN:00-753-5008

Status Code:A

Kit Part:Y

MSDS Number: CLKHQ

=== 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

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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:CALCI

UM CARBONATE
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:TOLUENE
CAS:108-88-3
RTECS #:XS5250000
= Wt:13.
OSHA PEL:SEE TABLE Z-2
ACGIH TLV:188 MG/M3;50 PPM
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

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Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Health Hazards Acute and Chronic:LIVER, KIDNEYS, NERVOUS SYSTEM, EYES.
SKIN

Effects of Overexposure:EYE CONTACT: CAUSES SEVERE IRRITATION. CAN
CAUSE BURNING SENSATION, TEARING, AND REDNESS. SKIN CONTACT: MAY
CAUSE SLIGHT TO MILD IRRITATION. PROLONGED OR REPEATED CONTACT MAY
DRY THE SKIN AND LEAD TO IRRITATION (I.E. DERMATITIS) MAY BE
ABSORBED THROUGH THE SKIN. INHALATION

(BREATHING): IRRITATION TO THE MOUTH, THROAT, AND STOMACH. CAN CAUSE DIZZINESS, HEADACHES, AND INCOORDINATION, NAUSEA, VOMI TING, AND STOMACH UPSET CAN OCCUR. INGESTION (SWALLOWING): IRRITATION TO THE MOUTH, THROAT, AND STOMACH. MAY CAUSE NAUSEA, VOMITING, PAIN, AND STOMACH UPSET (E.G. DIARRHEA). CAN CAUSE DIZZINESS, FAIN TNESS, HEADACHE, AND INCOORDINATION.

Medical Cond Aggravated by Exposure:NERVOUS SYSTEM, SKIN

===== First Aid Measures =====
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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 RESPIRATION. INGESTION (SWALLOWING): SEEK MEDICAL ATTENTION: IMMEDIATELY INDUCE VOMITING, AS DIRECTED BY MEDICAL PERSONNEL. NEVER GIVE ANYTHING BY MOUT H TO AN UNCONSCIOUS PERSON.

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

Flash Point Method:SCC
Flash Point:>32.8C, 91.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 AN D 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 CLOTHIN G.
Unusual Fire/Explosion Hazard:DURING A FIRE, IRRITATING AND HIGHLY TOXIC GASES MAY BE GENERATED DURING COMBUSTION OR DECOMPOSITION. HIGH TEMPERATURES CAN RUPTURE CONTAINERS. COOL WITH WATER.

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

Spill Release Procedures:ISOL

ATE 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 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:1.31
VOC Pounds/Gallon:183
VOC Grams/Liter:1.5
Solubility in Water:INSOLUBLE
Appearance and Odor:OFF-WHITE PASTE AND SULFIDE ODOR

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

Stability Indicator/Materials to Avoid:YES
OXIDIZERS, REDUCERS, STRONG BASES, ACIDS
Stability Condition to Avoid:HIGH TEMPERATURES
Hazardous Decomposition Product
s:SMOKE, SOOT, AND TOXIC/IRRITATING
FUMES (I.E., CARBON DIOXIDE, CARBON MONOXIDE, ETC). FORMALDEHYDE
AND/OR OTHER ALDEHYDES. OXIDES OF SULFUR, HYDROGEN SULFIDE, LOW
MOLECULAR WEIGHT HYDROCARBONS.

===== 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. TOLUENE ORAL LD50
5,000 M
G/KG DERMAL L D50 RABBIT 12,124 MG/KG INHALATION LC50
5,320 PPM/8-HOURS 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:

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= 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 Ti

Section III Information: SARA TITLE III - SECTION 311/312 HAZARD
CATEGORIES: FIRE, ACUTE AND CHRONIC HAZARD. SARA
SECTION 302 EXTREMELY HAZARDOUS MATERIAL FORMALDEHYDE SARA SECTION 313
TOXIC CHEMICALS TOLUENE FORMALDEHYDE
Federal Regulatory Information: UNITED STATES CHEMICAL COMPONENTS THIS
PRODUCT ARE ON THE SECTION 8(B) CHEMICAL SUBSTANCE INVENTORY LIST
(40 CFR 710) TSCA: SECTION 8(D) DATA REPORTING RULE TOLUENE
State Regulatory Information: STATE RIGHT TO KNOW PENNSYLVANIA
IA-NEW
JERSEY R-T-K LIMESTONE 1317-65-3 38.5% TOLUENE ENVIRONMENTAL
HAZARD 108-88-3 13.0% CALCIUM CARBONATE 474-34-1 3% TITANIUM
DIOXIDE 13463-67-7 2.2% FORMALDEHYDE 50-00-0