

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

Product ID:AC-236 CLASS A BASE

MSDS Date:04/27/1999

FSC:8030

NIIN:00-753-4598

Status Code:A

Kit Part:Y

MSDS Number: CLGKR

=== 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:RYAN

MICKELSON

CAGE:1DWR5

=== Contractor Identification ===

Company Name:ADVANCED CHEMISTRY & TECHNOLOGY

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Box:City:GARDEN GROVE

State:CA

ZIP:92841-2921

Country:US

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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: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

Ingred Name:CALCIUM CARBONATE  
CAS:471-34-1  
RTECS #:FF9335000  
= Wt:3.

Ingred Name:TITANIUM DIOXIDE  
CAS:13463-67-7  
RTECS #:XR2275000  
= Wt:2.2  
OSHA PEL:15 MG/M3  
ACGIH TLV:10 MG/M3

Ingred Name:FORMALDEHYDE  
CAS:50-00-0  
RTECS #:LP8925000  
&lt; 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 =====

Health Hazards Acute and Chronic:EMERGENCY OVERVIE

W: INGESTION MAY

CAUSE NAUSEA, VOMITING, PAIN, UPSET STOMACH, DIRARRHEA. MAY CAUSE  
MECHANICAL EYE IRRITATION. DO NOT SWALLOW.

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. MAY BE ABSORBED THROUGH THE  
SKIN. INHALATION: IRRITATION TO THE EYES, NOSE, AND RESPIRATORY  
TRACT. CAN CAUSE

DIZZINESS, HEADACHES, AND INCOORDINATION. NAUSEA,  
VOMITING, AND STOMACH UPSET C AN OCCUR. INGESTION: IRRITATION TO  
THE EYES, NOSE, AND RESPIRATORY TRACT. CAN CAUSE DIZZINESS,  
HEADACHES, AND INCOORDINATION. NAUSEA, VOMITING, AND STOMACH UPSET  
CAN OCCUR. INGESTION: IRRITATION TO TH E MOUTH, THROAT, AND  
STOMACH. MAY CAUSE

Medical Cond Aggravated by Exposure:NERVOUS SYSTEM. SKIN.

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

First Aid:EYE CONTACT: IMMEDIA

TELY FLUSH EYES WITH PLENTY OF WATER FOR  
AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. SKIN CONTACT:  
IMMEDIATELY FLUSH WITH WATER. REMOVE CONTAMINATED CLOTHING AND  
SHOES. GET MEDICAL ATTENTION IF IRRITATION PERSISTS.  
PROFESSTIONALLY WASH CLOTHING AND SHOES BEFORE REUSE. INHALATION:  
REMOVE TO FRESH AIR. IF SYMPTOMS DEVELOP, SEEK IMMEDIATE MEDICAL  
ATTENTION. IF NOT BREATHING, GIVE A RTIFICIAL RESPIRATION.  
INGESTION: 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: >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 AND OTHERS WHO MAY BE EXPOSED TO  
THE PRODUCTS OF COMBUSTION SHOULD BE EQUIPPED WITH NIOSH APROVED

POSITIVE PRESSURE SELF CONTAINED BREATHING APPARATUS AND FULL  
PROTECTIVE CLOTHING.

Unusual Fire/Explosion Hazard: DURING FIRE, IRRITATING AND HIGHLY TOXIC  
GASES MAY BE GENERATED DURING COMBUSITON OR DECOMPOSITION. HIGH  
TEMPERATURES CAN CAUSE SEALED CONTAINERS TO RUPTURE DUE TO A BUILD  
UP OF INTERNAL PRESSURE. COOL WITH WATER. VAPORS CAN TRAVEL TO A  
SOURCE OF IGNITION AND FLASH BACK.

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

Spill Release Proce

dures: EVACUATION: ISOLATE HAZARD AREA. KEEP  
UNNECESSARY AND UNPROTECTED PERSONNEL FROM ENTERING. ELIMINATE ALL  
SOURCES OF IGNITION. CONTAINMENT: SAFELY STOP DISCHARGE. CONTAIN  
MATERIAL, AS NECESSARY WITH A DIKE OR BARRIER. STOP MATERIAL FROM  
CONTAMINATING SOIL, OR FROM ENTERING SEWERS OR BODIES OF WATER.  
CLEAN-UP/PERSONAL PROTECTION EQUIPMENT: FIRE FIGHTERS AND OTHERS  
WHO MAY BE EXPOSED TO THE PRODUCTS.

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

Handling and Storage Precautions: STORAGE CONDITIONS: STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM HEAT, IGNITION SOURCES, AND DIRECT SUNLIGHT. KEEP CONTAINERS TIGHTLY CLOSED. WARNING: HOT ORGANIC CHEMICAL VAPORS OR MISTS CAN SUDDENLY AND WITHOUT WARNING COMBUST WHEN MIXED WITH AIR. IGNITION CAN OCCUR AT TYPICAL ELEVATED TEM

===== Exposure Controls/Personal Protection =====

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

Ventilation: LOCAL EXHAUST VENTILATION IS RECOMMENDED WHEN VAPORS, MISTS, OR DUSTS CAN BE RELEASED IN EXCESS OF ESTABLISHED AIRBORNE EXPOSURE LIMITS.

Protective Gloves: IMPERVIOUS GLOVES, CONSULT GLOVE MANUFACTURER. Eye

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

Supplemental Safety and Health

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

Spec Gravity: 1.31

Solubility in Water: INSOLUBLE

Appearance and Odor: OFFWHITE, 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 Pro

ducts: HAZARDOUS COMBUSTION AND  
DECOMPOSITION: SMOKE, SOOT, TOXIC FUMES (CARBON DIOXIDE, CARBON MONOXIDE), FORMALDEHYDE, ALDEHYDES, OXIDES OF SULFUR, HYDROGEN SULFIDE.

===== Toxicological Information =====

Toxicological Information: LIMESTONE: REPEATED EXPOSURE TO DUSTS CAN LEAD TO PARTICULATE DEPOSITION IN THE LUNGS. CAN CONTAIN TRACE AMOUNTS OF CRYSTALLINE SILICA AS AN IMPURITY. CALCIUM CARBONATE: REPEATED EXPOSURE TO DUSTS CAN LEAD TO PART

## ICULATE DEPOSITION IN

THE LUNGS. TITANIUM DIOXIDE: IN A 2 YEAR STUDY IN RATS, AN INCREASE IN BENIGN AND MALIGNANT LUNG TUMORS WERE OBSERVED AT 250 MG/M RESPIRABLE DUST LEVEL. THIS LEVEL I S 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. CAUSES SKIN AND RESP IRATORY SENSITIZATION. REPEATED EXPOSU

===== Disposal Consideratio  
ns =====

Waste Disposal Methods:DISPOSAL: WHEN A DECISION IS MADE TO DISCARD THIS MATERIAL AS SUPPLIED, IT MEETS RCRA'S CHARECTERISTICS DEFINITION OF IGNITIABILITY. GENERAL STATEMENTS: FEDERAL REGULATIONS MAY APPLY TO EMPTY CONTAINER. STATE AND/OR LOCAL REGULATIONS MAY BE DIFFERENT. GENERAL RECOMMENDATIONS: OF THE METHODS OF DISPO SAL CURRENTLY AVAILABLE, IT IS RECOMMENDED THAT AN

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

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tle III Information:SECTION 311/312-HAZARD CATEGORIES: Y-FIRE HAZARD, SUDDEN RELEASE OF PRESSURE HAZARD, N-REACTIVITY HAZARD, Y-IMMEDIATE HEATLH HAZARD, Y-DELAYED HEATLH HAZARD.

State Regulatory Information:PENNSYLVENIA-NEW JERSEY R-T-K LIMESTONE 1317-65-3 38.5, TOLUENE 108-88-3 13.0, CALCIUM CARBONATE 471-34-1 3, TITANIUM DIOXIDE 13463-67-7 2.2, FORMALDEHYDE 50-00-0