

ADVANCED CHEMISTRY & TECHNOLOGY -- AC-236 CLASS B BASE -- 8030-00-850-0759

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

Product ID:AC-236 CLASS B BASE

MSDS Date:04/01/1999

FSC:8030

NIIN:00-850-0759

Status Code:A

MSDS Number: CLQWG

=== 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:1-800-424-9300

Preparer's Name:ERNEST CARTER

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: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

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.

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

Reports of Carcinogenicity:NTP:NO IARC:N
O OSHA:NO

Health Hazards Acute and Chronic:EYE CONTACT; MAY CAUSE MECHANICAL IRRITATION. SKIN CONTACT: INCIDENTAL CONTACT IS NOT EXPECTED TO CAUSE IRRITATION. INHALATION (BREATHING): EXPOSURE IS LIKELY. INGESTION (SWALLOWING): EXPOSURE IS LIKE LY. MAY CAUSE NAUSEA, VOMITING, PAIN, AND STOMACH UPSET (E.G., DIARRHEA). TARGET ORGANS/CHRONIC EFFECTS: LUNGS AND RESPIRATORY SYSTEM.

Effects of Overexposure:EMERGENCY OVERVIEW: INGESTION MAY CAUSE NAUSEA, VOMITING, PAIN, UPSET STO
MACH, DIARRHEA. MAY CAUSE MECHANICAL EYE IRRITATION. DO NOT SWALLOW.

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. SKIN CONTACT: IMMEDIATELY FLUSH WITH WATER. REMOVE CONTAMINATED CLOTHING AND SHOES. GET MEDICAL ATTENTION. INHALATION (BREATHING): REMOVE TO FRESH AIR. IF SYM

PTOMS DEVELOP, SEEK IMMEDIATE MEDICAL ATTENTION.

INGESTION (SWALLOWING): SEEK MEDICAL ATTENTION. IMMEDIATELY INDUCE VOMITING, AS DIRECT ED 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.

Fir

e 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 CLOTHI NG.

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:EVACUATION: ISOLATE HAZARD ARE

A. KEEP

UNNECESSARY AND UNPROTECTED PERSONNEL FROM ENTERING. SAFELY STOP DISCHARGE. CONTAIN MATERIAL, AS NECESSARY, WITH A DIKE OR BARRIER. STOP MATERIAL FROM CONTAMINATI NG SOIL, OR FROM ENTERING SEWERS OR BODIES OF WATER.

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

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED AREA. TRANSFER: NO SPECIAL PRECAUTIONS ARE NEEDED. FOLLOW GOOD MANUFACTURING AND HANDLING PRACTICES.

Other Precau

tions:ATTENTION ! 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 P ROFESSIONAL CLEANING FOR FOOD, CLOTHING, OR PRODUCTS FOR HUMAN OR ANIMAL CONSUMPTION OR WHERE SKIN C ONTACT CAN OCCUR.

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

Respiratory Protection:WEAR NIOSH/MSHA APPROVED EQUIPMENT. DETERMINE THE APPROPR

IATE TYPE BY CONSULTING THE RESPIRATOR MANUFACTURER.

HIGH AIRBORNE CONCENTRATIONS MAY NECESSITATE THE USE OF SELF CONTAINED BREATHING APPARATUS (SCBA) OR A SUPPLIED AIR RESPIRATOR. RESPIRATORY PROTECTION PROGRAMS.

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

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. WASH CONTAMINATED GOGGLES, FACE SHIELD, AND GLOVES.

Supplemental Safety and Health

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

Spec Gravity:1.61

Solubility in Water:INSOLUBLE

Appearance and Odor:OFF-WHITE PASTE SULFIDE.

Percent Volatiles by Volume:97%

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

Stability Indicator/Materials to Avoid:YES

OXIDIZERS, REDUCERS. ACIDS.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

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

Toxicological Information:MANGANESE OXIDE: EYE, SKIN, AND RESPIRATORY TRACT IRRITANT. CAN CAUSE LIVER AND KIDNEY INJURY. TERPHENYL, HYDROGENATED: 1,3 DIPHENYLGUANIDINE; TERPHENYL, ETHOXYLATED NONYLPHENOL PHOSPHATE: SODIUM HYDR OXIDE: CORROSIVE CAUSES EYE AND SKIN BURNS.

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

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

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

SARA Title III Information:THIS PRODUCT IS CONSIDERED HAZARDOUS UNDER THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200). SECTION 311/312-HAZARD CATEGORIES: IMMEDIATE (ACUTE) HEALTH HAZARD, DELAYED (CHRONIC) HEALTH HAZARD

SECTION 313 TOXIC CHEMICALS MANGANESE

OXIDE. CHEMICAL COMPONENTS IN THIS PRODUCT ARE ON THE SECTION 8(B) CHEMICAL SUBSTANCE INVENTORY LIST (40 CFR 710).

State Regulatory Information: PENNSYLVANIA-NEW JERSEY R-T-K MANGANESE

OXIDE 1313-13-9 66.4, TERPHENYL, HYDROGENATED 61788-32-7 22.7,
1,3-DIPHENYLQUANIDINE 102-06-7 07, TERPHENYL 26140-60-3 4.8,
ETHOXYLATED NONYLPHENOL PHOSPHATE 51 811-79-1 2.9, SODIUM HYDROXIDE
1310-73-2 1.4,

=====
===== Other Information =====
=====

Disclaimer (provided with this information by the compiling agencies):

This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their

particular situation.