

ADVANCED CHEMISTRY & TECHNOLOGY -- AC-615 CLASS A BASE -- 8030-00-152-0062

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

Product ID:AC-615 CLASS A BASE

MSDS Date:04/05/1999

FSC:8030

NIIN:00-152-0062

Status Code:A

MSDS Number: CLRTW

=== 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

Minimum % Wt:25.

Maximum % Wt:35.

OSHA PEL:15 MG/M3

ACGIH TLV:10 MG/M3

Ing

red Name:TOLUENE
CAS:108-88-3
RTECS #:XS5250000
Minumum % Wt:10.
Maxumum % Wt:20.
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:STRONTIUM CHROMATE
CAS:7789-06-2
RTECS #:GB3240000
Minumum % Wt:1.
Maxumum % Wt:5.
OSHA PEL:SEE TABLE Z-2
ACGIH TLV:0.0005 MG/M3
EPA Rpt Qty:10 LBS
DOT Rpt Qty:10 LBS

Ingred Name:AROMATIC CARBOXYLIC ESTER
Minumum % Wt:1.
Maxumum % Wt:5.

Ingred Name:NON HAZARDOUS AND OTHER INGREDIENTS BELOW REPORTABLE
LEVEL
S.

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

Reports of Carcinogenicity:NTP:YES IARC:YES OSHA: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:
CAUSES SEVERE IRRITATION. PROLONGED OR REPEATED CONTACT MAY DRY THE
SKIN AND LEAD TO IRRITATION (I.E. DERMATITIS) MAY BE ABSORBED
THROUGH THE

SKIN. MAY CAUSE ALLERGIC SKIN REACTIONS AND
SENSITIZATION. INHALATION (BREATHING): IRRITATING TO THE EYES,
NOSE, AND RESPIRATORY TRACT. CAN CAUSE DIZZIN ESS, HEADACHES, AND
INCOORDINATION. NAUSEA, VOMITING, AND STOMACH UPSET CAN OCCUR.
INGESTION (SWALLOWING): SEVERELY IRRITATING TO THE MOUTH, THROAT,
AND STOMACH UPSET (E.G., DIARRHEA). CAN CAUSE DIZZ INESS,
FAINTNESS, HEADACHE.

Medical Cond Aggravated by Exposure:LIVER KIDNEYS, NERVOUS SYSTEM.
BLOOD AND/OR BLOOD ? F

FORMING ORGANS. LUNGS AND RESPIRATORY. SKIN.
IMMUNE SYSTEMS AND/OR SPECIFIC CHEMICAL ALLERGIES.

===== 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 IF IRRITATION PERSISTS. PROFESSIONALLY WASH CLOTHING AND SHOES BEFORE RE-USE. INHALATION

(BREATHING): REMOVE TO FRESH AIR. IF SYMPTOMS DEVELOP, SEEK IMMEDIATE MEDICAL ATTENTION. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. 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 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. 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 (FLAME, ELECTRIC MOTOR, HOT SURFACE, CIGARETTE, ETC.) AND FLAS

===== 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 CONTAMINAT

ING 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.

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

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED AREA, AWAY FROM HEAT, IGNITION SOURCES, 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 TEMPERATURE PROCESS CONDITIONS. ANY U

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.

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

Respiratory Protection:AVOID BREATHING VAPOR AND/OR MISTS. INDUSTRIAL HYGIENE CONSULTATION IS RECOMMENDED BECAUSE EXPOSURE LEVELS VARY DEPENDING ON THE NATURE OF THE OPERATION PERFORMED. WEAR NIOSH/MSHA-APPROVED EQUIPMENT. DETERMINE THE APPROPRIATE TYPE BY CONSULTING THE RESPIRATOR MANUFACTURER.

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 AND A FULL -FACE SHIELD.

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

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

Spec Gravity:1.47
V

OC Pounds/Gallon:192

VOC Grams/Liter:1.6

Solubility in Water:INSOLUBLE

Appearance and Odor:RED LIQUID AND SULFIDE ODOR.

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

Stability Indicator/Materials to Avoid:YES

Hazardous Decomposition Products:OXIDIZERS, REDUCERS, ACIDS, STRONG BASES

===== 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 RAT 5,000 MG/KG. DERM AL LD50 RABBIT 12,124 MG/KG. INHALATION LC50

MOUSE 5,320 PPM/8 - HOURS STRONTIUM CHROMATE: CAN CAUSE LIVER AND KIDNEY INJURY. POSSIBLE SKIN AND RESPIRATORY SENSITIZED.

PENETRATING SLOW HEALING ULCERS MAY OCCUR AFTER CONTACT WITH NON - INTACT SKIN OR MUCOUS MEMBRANES. CHROMATE DUSTS HAVE BEEN SHOWN TO CAUSE LUNG CANCERS IN HUMANS AND LABORATORIES ANIMALS. ORA

L LD50

RAT 3,118 MG/KG.

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

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS. FEDERAL REGULATIONS MAY APPLY TO EMPTY CONTAINER. STATE AND/OR LOCAL REGULATIONS MAY BE DIFFERENT. BASED UPON ENVIRONMENTAL ACCEPTABILITY. (1) RECYCLE OR REWORK, IF FEASIBLE; (2) INCINERATE AT AN AUTHORIZED FACILITY; OR (3) TREAT AT AN ACCEPTABLE WASTE TREATMENT FACILITY.

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

SARA Title III Information:SECTION 311/312 FIRE HAZARD, IMMEDIATE (ACUTE) HEALTH HAZARD, AND DELAYED (CHRONIC) HEALTH HAZARD

SARA SECTION 313 TOXIC CHEMICALS TOLUENE, STRONTIUM CHROMATE, CHROMIUM COMPOUNDS

Federal Regulatory Information:TSCA SECTION 8(D) DATA REPORTING RULE TOLUENE

State Regulatory Information:TOLUENE PENNSYLVANIA-NEW JERSEY R-T-K LIMESTONE 1317-65-3 25-3

5% TOLUENE 108-88-3 10-20% STRONTIUM

CHROMATE 7789-06-2 1-5% CALIFORNIA ? CALIFORNIA PROPOSITION 65

WARNING: THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER. TOLUENE REPRODUCTIVE HAZARD 108-88-3

25-35% STRONTIUM CHROMATE CANCER HAZARD 7789-06-2 10-20%

QUARTZ (CRYSTALLINE SILICA) CANCER HAZARD 14808-60-7