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Product ID:AC-236 ACCELERATOR MSDS Date:06/26/2000 FSC:8030 NIIN:00-753-4597 Status Code:A MSDS Number: CLKGZ === 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 Em ergency 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

Ingred Name:MANGANESE OXIDE CAS:1313-13-9 RTECS #:OP0350000 = Wt:66.4 OSHA PEL:C5 MG/M3 ACGIH TLV:5 MG/M3

Ingred Name:HYDROGENATED

TERPHENYL CAS:61788-32-7 RTECS #:WZ6535000 = Wt:22.7 ACGIH TLV:4.9 MG/M3;0.5 PPM

Ingred Name:1,3-DIPHENYLGUANIDINE CAS:102-06-7 RTECS #:MF0875000 = Wt:.7

Ingred Name:TERPHENYL CAS:26140-60-3 RTECS #:WZ6450000 = Wt:4.8 OSHA PEL:C9 MG/M3;C1 PPM ACGIH STEL:C5 MG/M3;C0.53 PPM

Ingred Name:ETHOXYLATED NONYLPHENOL PHOSPHATE CAS:51811-79-1 = Wt:4.8

Ingred Name:SODIUM HYDROXIDE CAS:1310-73-2 RTECS #:WB4900000 = Wt:1.4 OSHA PEL:2 MG/M3 ACGIH STEL:C2 MG/M3 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

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Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Health Hazards Acute and Chronic:CHRONIC EFFECTS: LIVER, KIDNEYS, NERVOUS SYSTEM. BLOOD AND/OR BLOOD-FORMING ORGANS. LUNGS AND RESPIRATORY SYSTEM. REPRODUCTIVE SYSTEM (AND REPRODUCTIVE EFFECTS). EYES. SKIN. IMMUNE SYSTEM, (E.G., ALLE RGIC REACTIONS). Effects of Overexposure:EYE CONTACT: MAY CAUSE MODERATE IRRITATION SKIN CONTACT: MAY CAUSE SLIGHT TO MILD I

RRITATION. MAY CAUSE

ALLERGIC SKIN REACTIONS AND SENSITIZATIONS. INHALATION (BREATHING): IRRITATING TO THE EYES, NO SE, AND RESPIRATORY TRACT. CAN CAUSE DIZZINESS, HEADACHE, AND INCOORDINATION. INGESTION (SWALLOWING): IRRITATING TO THE MOUTH. MAY CAUSE NAUSEA, VOMITING, PAIN, AND STOMACH UPSET (E.G., DIARRHEA)

Medical Cond Aggravated by Exposure:LIVER, KIDNEYS, LUNGS AND RESPIRATORY SYSTEM. SKIN. IMMUNE SYSTEM AND/OR SPECIFIC CHEMICAL ALLERGIES.

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.

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 CLOTHIN G.

Unusual Fire/Explosion Hazard:DURING A FIRE, IRRITATING AND HIGHLY TOXIC GASES MAY BE GENERATED DURING COMBUSTION OR DECOMPOSITION.

Spill Release Procedures: ISOLATE HAZARD AREA. KEEP UNNECES

SARY 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 Precautions:STORE I

N COOL, DRY, WELL VENTILATED

AREA AWAY FROM HEAT, IGNITION SOURCES, AND DIRECT SUNLIGHT. KEEP CONTAINERS TIGHTLY CLOSES. TRANSFER- NO SPECIAL PRECAUTIONS ARE NEEDED. FOLLOW GOOD MANUFACTURING A ND 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 PROD

UCTS FOR HUMAN OR ANIMAL CONSUMPTION OR WHERE SKIN CONTACT CAN O CCUR.

======= 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. Supplem

Vapor Pres:0.1 MM HG Vapor Density:>1 Spec Gravity:2.1 Evaporation Rate & amp; Reference:2,000 MG/KG 1,3- DIPHENYLQUANIDINE: ORAL RAT 507 MG/KG MOUSE 290 MG/KG TERPHENYL ORAL LD50 RAT 13,200 MG/KG ETHOXYLATED NONYLPHENOL PHOSPHATE ORAL LD50 RAT 3,630 MG/KG SODIUM HYDROXIDE: CORROSIVE! CAUSE EYE AND S KIN BURNS. DERMAL LD50 RABBIT 1000 MG/KG.

====== Disposal Consider

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 PRE FERENCE. BASED UPON ENVIRONMENTAL ACCEPTABILITY. (1) RECYCLE OR REWORK, IF FEASIBLE; (2) INCINERATE AT AN AUTHORIZED FACILITY.

SARA Title III Information:

SECTION 311 AND 312: IMMEDIATE (ACUTE)

HEALTH HAZARD, DELAYED (CHRONIC) HEALTH HAZARD. SARA SECTION 302 EXTREMELY HAZARDOUS MAT-NO REGULATED INGREDIENTS SARA SECTION 313 TOXIC CHEMICALS MANGANESE OX IDE

Federal Regulatory Information:UNITED STATES CHEMICAL 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 MANGANESE OXIDE 1313-13-9 66.4% TERPHEN YL.

HYDROGENATED 61788-32-7 22.7% 1,3 ? DIPHENYLQUANIDINE 102-06 7% TERPHENYL 26140-60-3 4.8% ETHOXYLATED NONYLPHENOL PHOSPHATE 51811-79-1 2.9% SODIUM HYDROXIDE 1310-73-2 1.4% CALIFORNIA ? CALIFORNIA PROPOSITION 65-NO REGULATED INGREDIENTS

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