Product ID:AC-275 ACCELERATOR MSDS Date:04/05/1999 FSC:8030 NIIN:01-035-0083 Status Code:A MSDS Number: CLKJS === 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 Minumum % Wt:60. Maxumum % Wt:70. OSHA PEL:C5 MG/M3 ACGIH TLV:5 MG/M3 Ingred Name:TERPHENYL, HYDROGENATED CAS:61788-32-7 RTECS #:WZ6535000 Minumum % Wt:20. Maxumum % Wt:30. ACGIH TLV:4.9 MG/M3;0.5 PPM

Ingred Name:1,3-DIPHENYLGUANIDINE CAS:102-06-7 RTECS #:MF0875000 Minumum % Wt:1. Maxumum % Wt:5.

Ingred Name:TERPHENYL CAS:26140-60-3 RTECS #:WZ6450000 Minumum % Wt:1. Maxumum % Wt:5. OSHA PEL:C9 MG/M3;C1 PPM ACGIH STEL:C5 MG/M3;C0.53 PPM

Ingred Name:ETHOXYLATED NONYLPHENOL PHOSPHATE CAS:51811-79-1 Minumum % Wt:1. Maxumum % Wt:5.

Ingred Name:SODIUM HYDROXIDE CAS: 1310-73-2 RTECS #:WB4900000 Minumum % Wt:1. Maxumum % Wt:5. OSHA PEL:2 MG/M3 ACGIH STEL:C2 MG/M3 EPA Rpt Qty:1000 LBS DOT Rpt Qty:1000 LBS

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES Health Hazards Acute and Chronic: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., ALLERGIC 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 BEFOR

E 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 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. STOP DISCHARGE, IF SAFE TO DO SO. USE PROPER PROTECTIVE EQUIPMENT. COVER SPILLS WITH ABSORBENT CLAY OR SAWDUST AND PLACE IN CLOSED CHEMICAL WASTE CONTAINERS.

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED AREA, IGNITION SOURCES, AND DIRECT SUNLIGHT. KEEP CONTAINERS TIGHTLY CLOSED.

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 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.

WASH CONTAMINATED GOGGLES, FACE-SHIELD, AND GLOVES. Supplemental Safety and Health

Vapor Pres:0.1 MMHG Vapor Density:> AIR Spec Gravity:2.1 Evaporation Rate & 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.

Waste Disposal Methods: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; OR (3) TREAT AT AN ACCEPTABLE WASTE TREATMENT FACILITY.

 Regulatory Information	======

SARA Title III Information:SECTION 311/312-HAZARD CATEGORIES: IMMEDIATE AND DELAYED HEALTH HAZARD. SARA SECTION 302 EXTREMELY HAZARDOUS MAT-NO REGULATED INGREDIENTS SARA SECTION 313 TOXIC CHEMICALS MANGANESE OXIDE

Federal Regulatory Information: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 60-70%

TERPHENYL,

HYDROGENATED 61788-32-7 20-30% 1,3 ? DIPHENYLQUANIDINE 102-06 1-5% TERPHENYL 26140-60-3 1-5% ETHOXYL ATED NONYLPHENOL PHOSPHATE 51811-79-1 1-5% SODIUM HYDROXIDE 1310-73-2 1-5% WATER 7732-18-5 1-5% CALIFORNIA ? CALIFORNIA PROPOSITION 65-NO REGULATED INGREDIENTS

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