EASTMAN KODAK COMPANY -- 196 5623,WKG SOL,KODAK BLEACH REPLENISHER,PROCESS E-6& E-6AR -- 6750-01-033-5151

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

Product ID:196 5623,WKG SOL,KODAK BLEACH REPLENISHER,PROCESS E-6& E-6AR
MSDS Date:05/18/2000
FSC:6750
NIIN:01-033-5151
Status Code:A
MSDS Number: CLGVK
=== Responsible Party ===
Company Name:EASTMAN KODAK COMPANY
Address:343 STATE STREET
City:ROCHESTER
State
:NY
ZIP:14650
Country:US
Info Phone Num:716-722-5151/(800) 242-2424
Emergency Phone Num:716 722-5151
CAGE:19139
=== Contractor Identification ===
Company Name:EASTMAN KODAK CO GOVERNMENT MARKETS CONTRACTS
Address:343 STATE ST
Box:City:ROCHESTER
State:NY
ZIP:14650-1115
Country:US
Phone:716-722-5151/(800) 242-2424
CAGE:19139

========== Composition/Information on Ingredients ==========

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Minumum % Wt:75.
Maxumum % Wt:80.

Ingred Name:AMMONIU

M FERRIC ETHYLENEDIAMINETETRAACETIC ACID
CAS:21265-50-9
Minumum % Wt:10.
Maxumum % Wt:15.

Ingred Name:AMMONIUM BROMIDE
CAS:12124-97-9
RTECS #:BO9155000
Minumum % Wt:5.
Maxumum % Wt:10.

Ingred Name:POTASSIUM NITRATE
CAS:7757-79-1
RTECS #:TT3700000
Minumum % Wt:1.
Maxumum % Wt:5.

Ingred Name:HYDROBROMIC ACID
CAS:10035-10-6
RTECS #:MW3850000
Minumum % Wt:1.
Maxumum % Wt:5.
OSHA PEL:10 MG/M3;3 PPM
ACGIH STEL:C9.9 MG/M3;C3 PPM

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

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:EFFECTS OF EXPOSURE: CONTAINS AMMONIUM FERRIC ETHYLENEDIAMINETETRAACETIC ACID. COMPOUND CHELATE METALS, ALTER CALCIUM, AND OTHER CATION BALANCES. CONTAINS ETHYLENEDIAMINETETRAACETIC ACID. THIS COMPOUN D CAN CHELATE METALS AND MAY ALTER CALCIUM AND OTHER CATION BALANCES. CONTAINS POTASSIUM NITRATE. UNDER SOME CIRCUMSTANCES METHEMOGLOBIN
EMIA MAY OCCUR WHEN
NITRATES ARE CONVERTED BY BACTERIA IN THE ST OMACH TO NITRITES. INHALATION: LOW HAZARD FOR RECOMMENDED HANDLING. EYES: NO SPECIFIC HAZARD KNOWN. MAY CAUSE TRANSIENT IRRITATION. SKIN: LOW HAZARD FOR RECOMMENDED HANDLING. INGESTION: MAY BE HARMFUL IF SWALLOWED.
Explanation of Carcinogenicity:CARCINOGENICITY CLASSIFICATION (COMPONENTS PRESENT AT 0.1% OR MORE): - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC): NONE - AMERICAN CONFERENCE OF GOVERNM

ENTAL INDUSTRIAL HYGIENISTS (ACGIH): NON E - NATIONAL TOXICOLOGY PROGRAM (NTP): NONE - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA): NONE

Effects of Overexposure:EFFECTS OF EXPOSURE: CONTAINS AMMONIUM FERRIC ETHYLENEDIAMINETETRAACETIC ACID. COMPOUND CHELATE METALS, ALTER CALCIUM, AND OTHER CATION BALANCES. CONTAINS ETHYLENEDIAMINETETRAACETIC ACID. THIS COMPOUN D CAN CHELATE METALS AND MAY ALTER CALCIUM AND OTHER CATION BALANCES. CONTAINS POTASSIUM NITRATE. UND

ER SOME CIRCUMSTANCES METHEMOGLOBINEMIA MAY OCCUR WHEN NITRATES ARE CONVERTED BY BACTERIA IN THE ST OMACH TO NITRITES. INHALATION: LOW HAZARD FOR RECOMMENDED HANDLING. EYES: NO SPECIFIC HAZARD KNOWN. MAY CAUSE TRANSIENT IRRITATION. SKIN: LOW HAZARD FOR RECOMMENDED HANDLING. INGESTION: MAY BE HARMFUL IF SWALLOWED.

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

First Aid:INHALATION: IF SYMPTOMATIC, MOVE TO FRESH AIR. TREAT SYMPTOMATICALLY. GET MEDICAL A

TTENTION IF SYMPTOMS PERSIST. EYES: ANY MATERIAL THAT CONTACTS THE EYE SHOULD BE WASHED OUT IMMEDIATELY WITH WATER. G ET MEDICAL ATTENTION IF SYMPTOMS OCCUR.SKIN: WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. INGESTION: DRINK 1-2 GLASSES OF WATER. SEEK MEDICAL ATTENTION. NEVER GIVE ANYTHING BY M OUTH TO AN UNCONSCIOUS PERSON. IF SIGNS AND SYMPTOMS OF CYANOSIS ARE PRESENT, TREAT FOR METHEMOGLOBINEMIA.

========== Fire Fighting Measures ==
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Flash Point:NONE

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE (CO2), DRY CHEMICAL, ALCOHOL FOAM

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. FIRE OR EXCESSIVE HEAT MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS.

Unusual Fire/Explosion Hazard:NONE

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

Spill Release Procedures:FLUSH TO SEWER WITH LARGE AMOUNTS OF WATER. OTHERWISE, ABSORB SPILL WITH VE

RMICULITE OR OTHER INERT MATERIAL,
THEN PLACE IN A CONTAINER FOR CHEMICAL WASTE. CLEAN SURFACE THOROUGHLY TO REMOVE RESIDUAL CONTAMINATION.

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

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED. KEEP AWAY FROM INCOMPATIBLE SUBSTANCES. KEEP FROM CONTACT WITH OXIDIZING MATERIALS.
Other Precautions:AVOID PROLONGED OR REPEATED BREATHING OF MIST OR VAPOR. AVOID CONTACT WITH EYES AND PROLONGED OR REPEAT
ED CONTACT
WITH SKIN. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING.

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

Respiratory Protection:IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS BELOW RECOMMENDED EXPOSURE LIMITS, AN APPROVED RESPIRATOR MUST BE WORN. RESPIRATOR TYPE: ACID GAS. IF RESPIRATORS ARE USED, A PROGRAM SH OULD BE INSTITUTED TO ASSURE COMPLIANCE WITH OSHA STANDARD 29 CFR 1910.134.
Ventilation:GOOD GENE
RAL VENTILATION (TYPICALLY 10 AIR CHANGES PER
HOUR) SHOULD BE USED. VENTILATION RATES SHOULD BE MATCHED TO CONDITIONS.
Protective Gloves:FOR PROLONGED OR REPEATED SKIN CONTACT, IMPERVIOUS GLOVES SHOULD BE WORN.
Eye Protection:WEAR SAFETY GLASSES WITH SIDE SHIELDS (OR GOGGLES).
Other Protective Equipment:EYE BATH, SAFETY SHOWER, WASHING FACILITIES
Work Hygienic Practices:IT IS A GOOD INDUSTRIAL HYGIENE PRACTICE TO MINIMIZE EYE CONTACT. IT IS A GOOD INDUSTRIAL HYGIENE PRACTICE TO

MINIMIZE SKIN CONTACT.
Supplemental Safety and Health
SUPPLEMENTARY LOCAL EXHAUST VENTILATION, CLOSED SYSTEMS, OR RESPIRATORY PROTECTION MAY BE NEEDED IN SPECIAL CIRCUMSTANCES SUCH AS POORLY VENTILATED SPACES, EVAPORATION FROM LARGE SURFACES, SPRAYING, H
EATING, ETC.

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

HCC:C3
Boiling Pt:>100.C, 212.F
Vapor Pres:68F: 24MBAR (18 MM HG)
Vapor Density:0.6
Spec Gravity:1.19
pH:5.8
Solubility in Water:COMPLETE
Appearan

ce and Odor:RED LIQUID. ODOR: SLIGHT AMMONIA.
Percent Volatiles by Volume:75-80 WT

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

Stability Indicator/Materials to Avoid:YES
STRONG OXIDIZING AGENTS, BASES, SODIUM HYPOCHLORITE (BLEACH).
Stability Condition to Avoid:STABLE
Hazardous Decomposition Products:AMMONIA, CHLORAMINE, HYDROGEN BROMIDE.
CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN.
Conditions to Avoid Polymerization:WILL NOT OCCUR.

========== Ec
ological Information ==========

Ecological:THE FOLLOWING PROPERTIES ARE ESTIMATED FROM THE COMPONENTS
OF THE PREPARATION. POTENTIAL TOXICITY- FISH LC50 MG/L: >100,
DAPHNID EC50 MG/L: 10-100, ALGAL IC50 MG/L: >100. ORGANICS READILY
DEGRADABLE (>70%): NO. POTENTIAL BIOACCUMULATION: LOG POW 100.

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

Waste Disposal Methods:DISCHARGE, TREATMENT, OR DISPOSAL MAY BE SUBJECT
TO NATIONAL, STATE, OR LOCAL LAWS
. FLUSH TO SEWER WITH LARGE
AMOUNTS OF WATER.

========== MSDS Transport Information ==========

Transport Information:CORROSIVE LIQUID, ACIDIC, ORGANIC NOS (ETHYLENE
DIAMINETETRAACETIC ACID), 8, UN3265, III.

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

SARA Title III Information:CHEMICAL(S) SUBJECT TO THE REPORTING
REQUIREMENTS OF SECTION OF SARA OF 1986 AND 40 CFR PART 372:
NITRATE COMPOUNDS (WATER DISSOCIABLE)(POTASSIUM NITRATE); A
MMONIUM
BROMIDE, AS A SOURCE OF AQUEOUS AMM ONIA.

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

rofessional advice to verify and
assume responsibility for the suitability of this information to their
particular situation.