

EASTMAN KODAK COMPANY -- 130 0201,PT A,KODAK EKTACOLOR SM PROCESSING UNIT
P2/RA-2SM -- 6750-01-443-3027

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

Product ID:130 0201,PT A,KODAK EKTACOLOR SM PROCESSING UNIT P2/RA-2SM

MSDS Date:09/13/2000

FSC:6750

NIIN:01-443-3027

Kit Part:Y

MSDS Number: CKYPV

=== 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

Preparer's Name:NOT PROVIDED

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

Contract Num:SP0500-96-D-9413N086

CAGE:19139

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

Ingred Name:AMMONIUM THIOSULFATE

CAS:7783-18-8

RT

ECS #:XN6465000

= Wt:47.

Other REC Limits:NOT PROVIDED

OSHA PEL:NOT PROVIDED

ACGIH TLV:NOT PROVIDED

Ingred Name:WATER

CAS:7732-18-5

RTECS #:ZC0110000

Minumum % Wt:40.

Maxumum % Wt:45.

Other REC Limits:NOT PROVIDED

Code:F

Code:F

Ingred Name:SODIUM BISULFITE

CAS:7631-90-5

RTECS #:VZ2000000

Minumum % Wt:5.

Maxumum % Wt:10.

Other REC Limits:NOT PROVIDED

OSHA PEL:NOT PROVIDED

ACGIH TLV:5 MG/M3

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:AMMONIUM BISULFITE

CAS:10192-30-0

RTECS #:WT3595000

= Wt:6.

Other REC Limits:NOT PROVIDED

OSHA PEL:NOT PROVIDED

ACGIH TLV:NOT PROVIDED

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

Ingred Name:AMMONIUM ACETATE

CAS:631-61-8

RTECS #:AF3675000

= Wt:1.

Other REC Limits:NOT PROVIDED

OSHA PEL:NOT PROVIDED

ACGIH TLV:NOT PROVIDED

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

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

LD50 LC50 Mixture:NOT PROVIDED

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES

Reports of Carcinogenicity:NT

P:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic: EFFECTS OF EXPOSURE: INHALATION:

EXPECTED TO BE A LOW HAZARD FOR USUAL INDUSTRIAL OR COMMERCIAL HANDLING BY TRAINED PERSONNEL. IN CONTACT WITH STRONG ACIDS OR IF HEATED, SULFITES MAY LIBERATE SULFUR DIOXIDE GAS. SULFUR DIOXIDE GAS IS IRRITATING TO THE RESPIRATORY TRACT. SOME ASTHMATICS OR HYPERSENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING. EYES: CAUSES IRRITATION. SKIN: THIS MATERIAL HAS A LOW POTENTIAL

TO CAUSE ALLERGIC SKIN REACTIONS; HOWEVER, CASES OF HUMAN SKIN SENSITIZATION HAVE BEEN REPORTED. INGESTION: MAY BE HARMFUL IF SWALLOWED. MAY CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT.

Explanation of Carcinogenicity: CARCINOGENICITY CLASSIFICATION

(COMPONENTS PRESENT AT 0.1% OR MORE): AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH): NONE - INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC): SODIUM BISULFITE, NOT CLASSIFIABLE AS A HUMAN CARCINOGEN

EN (A4) - NATIONAL TOXICOLOGY

PROGRAM (NTP): NONE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA): NONE

Effects of Overexposure: INHALATION: IN CONTACT WITH STRONG ACIDS OR IF HEATED, SULFITES MAY LIBERATE SULFUR DIOXIDE GAS. SULFUR DIOXIDE GAS IS IRRITATING TO THE RESPIRATORY TRACT. EYES: CAUSES IRRITATION. INGESTION: MAY CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT.

Medical Cond Aggravated by Exposure: SOME ASTHMATICS, HYPERSENSITIVE OR SULFITE-SENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING,

WHEEZING, CHEST TIGHTNESS, STOMACH UPSET, HIVES, FAINTNESS, WEAKNESS AND DIARRHEA.

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First Aid Measures
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First Aid: INHALATION: IF SYMPTOMATIC, MOVE TO FRESH AIR. TREAT SYMPTOMATICALLY. GET MEDICAL ATTENTION IF SYMPTOMS PERSIST. EYES: IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET 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 MOUTH TO AN UNCONSCIOUS PERSON.

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Fire Fighting Measures
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Flash Point: NONE

Extinguishing Media: FLOOD WITH WATER.

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

Unusual Fire/Explosion Hazard: SOLUTION CONTAINS

A STRONG REDUCING
AGENT. DRIED PRODUCT RESIDUE CAN ACT AS A REDUCING AGENT.

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

Spill Release Procedures:FLUSH TO SEWER WITH LARGE AMOUNTS OF WATER.
OTHERWISE, ABSORB SPILL WITH VERMICULITE OR OTHER INERT MATERIAL,
THEN PLACE IN A CONTAINER FOR CHEMICAL WASTE. CLEAN SURFACE
THOROUGHLY TO REMOVE RESIDUAL CONTAMINATION. COLLECT IN A
NONCOMBUSTIBLE CONTAINER FOR PROMPT DISPOSAL.

Neutralizing Agent:NOT PROVIDE

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

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED TO
PREVENT THE LOSS OF WATER. KEEP AWAY FROM INCOMPATIBLE SUBSTANCES.
DO NOT STORE OR SHIP TOGETHER WITH COMBUSTIBLE MATERIALS. STORE IN
ORIGINAL CONTAINER.AVOID BREATHING MIST OR VAPOR. AVOID CONTACT
WITH EYES AND PROLONGED OR REPEATED CONTACT WITH SKIN.

Other Precautions:USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER
HANDLING. KEEP AWAY

FROM COMBUSTIBLE MATERIAL. REMOVE AND WASH
CONTAMINATED CLOTHING PROMPTLY. KEEP FROM CONTACT WITH OXIDIZING
MATERIALS, HIGHLY OXYGENATED OR HALOGENATED SOLVENTS, ORGANIC
COMPOUNDS CONTAINING REDUCIBLE FUNCTIONAL GROUPS, OR AQUEOUS
AMMONIA.

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

Respiratory Protection:NONE SHOULD BE NEEDED. A RESPIRATOR SHOULD BE
WORN IF HAZARDOUS DECOMPOSITION PRODUCTS ARE LIKELY TO BE OR HAVE
BEEN RELEASED. RESPIRATOR

TYPE: FULL-FACE POSITIVE-PRESSURE

AIR-SUPPLIED. SEE STABILITY AND REACTIVITY SECTION. IF RESPIRATORS
ARE USED, A PROGRAM SHOULD BE INSTITUTED TO ASSURE COMPLIANCE WITH
OSHA STANDARD 29 CFR 1910.134.

Ventilation:GOOD GENERAL 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 SKIN CONTACT.

Supplemental Safety and Health

THIS IS A KIT. THE OTHER MSDS SERIAL NUMBER: CLHCY. ABBREVIATION: N/A = NOT APPLICABLE. N/AV = NOT AVAILABLE. N/K = UNKNOWN. N/P = NOT PROVIDED. N/R = NOT RELEVANT. N/D = NOT DETERMINED. N/E = NOT ESTABLISHED.

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

HCC:C2
NRC/State Lic Num:NOT RELEVANT
Boiling Pt:>100.C, 212.F
Melt/Freeze Pt:M.P/F.P Text:NOT PROVIDED
Decomp Temp:Decomp Text:NOT PROVIDED
Vapor Pres:(68F):24 MBAR (18 MM HG)
Vapor Density:0.6
Spec Gravity:1.326
pH:5.4
Viscosity:NOT PROVIDED
Evaporation Rate & Reference:NOT PROVIDED
Solubility in Water:COMPLETE
Appearance and Odor:COLORLESS LIQUID. ODOR: AMMONIA.
Percent Volatiles by Volume:40-45 WT
Corrosion Rate:NOT PROVIDED

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

Stability Indicator/Materials to Avoid:YES
STRONG ACIDS, STRONG OXIDIZING AGENTS, COMBUSTIBLE MATERIAL, HALOGENATED MATERIALS, BASES, AQUEOUS AMMONIA, SODIUM HYPOCHLORITE (BLEACH). CONTACT WITH BASE LIBERATES FLAMMABLE MATERIAL.
Stability Condition to Avoid:NOT PROVIDED
Hazardous Decomposition Products:AMMONIA, CHLORAMINE, SULFUR DIOXIDE, CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN

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

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ecological Information:AMMONIUM FERRIC ETHYLENEDIAMINETETRAACETIC
ACID CAN CHELATE METALS AND MAY ALTER CALCIUM AND OTHER CATION
BALANCES. INHALATION: EXPECTED TO BE A LOW HAZARD FOR HANDLING BY
TRAINED PERSONNEL. IN CONTACT WITH STRONG ACIDS OR IF HEATED,
SULFITES MAY LIBERATE SULFUR DIOXIDE GAS WHICH IS IRRITATING TO
RESPIRATORY TRACT. SOME ASTHMATICS OR HYPERSENSITIVE INDIVIDUALS
MAY EXPERIENCE DIFFICULT BREATHING. EYES: CAUSES IRRITATION. SKIN:
THIS MATERIAL HAS
A LOW POTENTIAL TO CAUSE ALLERGIC SKIN REACTIONS;
HOWEVER, CASES OF HUMAN SKIN SENSITIZATION HAVE BEEN REPORTED.
INGESTION: MAY CAUSE IRRITATION OF THE GASTROINTESTINAL TRACT.

===== Ecological Information =====

Ecological:THE FOLLOWING PROPERTIES ARE ESTIMATED FROM THE COMPONENTS
OF THE PREPARATIONS. POTENTIAL TOXICITY: FISH LC50 MG/L: >100.
DAPHNID EC50 MG/L: >100. ALGAL IC50 MG/L: >100. ORGANICS
READILY DEGRADABLE (>70%): YES (7 D
AYS). POTENTIAL
BIOACCUMULATION: LOG POW