View NSN Online: https://aerobasegroup.de/nsn/6750-01-376-5884

EASTMAN KODAK COMPANY -- 158 2352,PT A,KODAK EKTACOLOR RA BLEACH FIXER / RA-4 -- 6750-01-376-5884

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

Product ID:158 2352,PT A,KODAK EKTACOLOR RA BLEACH FIXER / RA-4

MSDS Date:07/22/2000

FSC:6750

NIIN:01-376-5884 Status Code:A

Kit Part:Y

MSDS Number: CKTYG === Responsible Party ===

Company Name: EASTMAN KODAK COMPANY

Address:343 STATE STREET

City:ROCHESTER

State:NY

ZΙ

P: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

CAGE:19139

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

Ingred Name:WATER CAS:7732-18-5 RTECS #:ZC0110000 Minumum % Wt:60.

Maxumum % Wt:6

5.

Other REC Limits: NOT PROVIDED

Code:F

Ingred Name: AMMONIUM THIOSULFATE

CAS:7783-18-8

RTECS #:XN6465000

= Wt:37.

Other REC Limits:NOT PROVIDED

OSHA PEL:NOT PROVIDED ACGIH TLV:NOT PROVIDED

Ingred Name: SODIUM BISULFITE

CAS:7631-90-5

RTECS #:VZ2000000

Minumum % Wt:1.

Maxumum % Wt:5.

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: ACETIC ACID

CAS:64-19-7

RTECS #:AF1225000

Minumum % Wt:1.

Maxumum % Wt:5.

Other REC

Limits:NOT PROVIDED

OSHA PEL:25 MG/M3;10 PPM ACGIH TLV:25 MG/M3;10 PPM ACGIH STEL:37 MG/M3;15 PPM

EPA Rpt Qty:5000 LBS

DOT Rpt Qty:5000 LBS

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

LD50 LC50 Mixture:NOT PROVIDED

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

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

EXPECTED TO BE A LOW HAZARD FOR RECOMMENDED HANDLING. IN CONTACT WITH STRONG ACIDS OR IF HEATED, SULFITES MAY LIBERATE SULFUR

D

- IOXIDE GAS. SULFUR DIOXIDE GAS IS IRRITA TING TO THE RESPIRATORY TRACT. SOME ASTHMATICS OR HYPERSENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING. EYES: NO SPECIFIC HAZARD KNOWN. MAY CAUSE TRANSIENT 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.
- Explanation of Carcinogenicity:CARCINOGENICITY CLASSIFICATION (COMPONENTS P
- RESENT AT 0.1% OR MORE): INTERNATIONAL AGENCY FOR
  RESEARCH ON CANCER (IARC): NONE AMERICAN CONFERENCE OF
  GOVERNMENTAL INDUSTRIAL HYGIENISTS (ACGIH): NON E 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. SOME ASTHMATICS OR HYPERSENSIT
- IVE INDIVIDUAL S MAY EXPERIENCE DIFFICULT BREATHING. EYES: MAY CAUSE TRANSIENT IRRITATION.
- 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.

=======================================	First Aid Measures	===============
	I II OL AIU IVICASUICS	

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

ION IF SYMPTOMS PERSIST, EYES:

IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTEN TION IF SYMPTOMS OCCUR. SKIN: WASH WITHSOAP AND WATER. GET MEDICAL ATTENTION IF SYMPTOMS OCCUR. WASH CONTAMINATED CLOTHING BEFORE REUSE. DESTROY OR THOROUGHLY CLEAN CONTAMINATED SHOES. INGESTION: DRIN K 1-2 GLASSES OF WATER. SEEK MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

	Fire Fighting Measures	=======
=========		

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	
 ACCIDENTAL DETERMENTAL MERANDEM	

Spill Release Procedures: COLLECT IN A NONCOMBUSTIBLE CONTAINER FOR

## PROMPT DISPOSAL. Neutralizing Agent:NOT PROVIDED

=========== 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 MATERIAL. STORE IN ORIGINAL CONTAINER.
- Other Precautions:AVOID BREATHING MIST OR VAPOR. AVOID CONTACT WITH EYES AND PROLONGED OR REPEATED CONTACT WITH SKIN. USE WITH ADEQUATE VE
- NTILATION. WASH THOROUGHLY AFTER HANDLING. KEEP FROM CONTACT WITH OXIDIZING MATE RIALS, HIGHLY OXYGENATED OR HALOGENATED SOLVENTS, ORGANIC COMPOUNDS CONTAINING REDUCIBLE FUNCTIONAL GROUPS.

===== 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 STABILI
- TY 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, SAF

ETY 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 Properti

HCC:N1

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:1.23

pH:5.5

Viscosity: NOT PROVIDED

Evaporation Rate & Reference: NOT PROVIDED

Solubility in Water: COMPLETE

Appearance and Odor:LIGHT YELLOW LIQUID. ODOR: AMMONIA

Percent Volatiles by Volume:60-65 WT

Corrosion Rate: NOT PROVIDED

========== Stability and Rea

ctivity Data ========

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS, BASES, STRONG OXIDIZING AGENTS, COMBUSTIBLE MATERIAL, HALOGENATED MATERIALS, SODIUM HYPOCHLORITE (BLEACH). CONTACT WITH BASE LIBERATES FLAMMABLE MATERIAL.

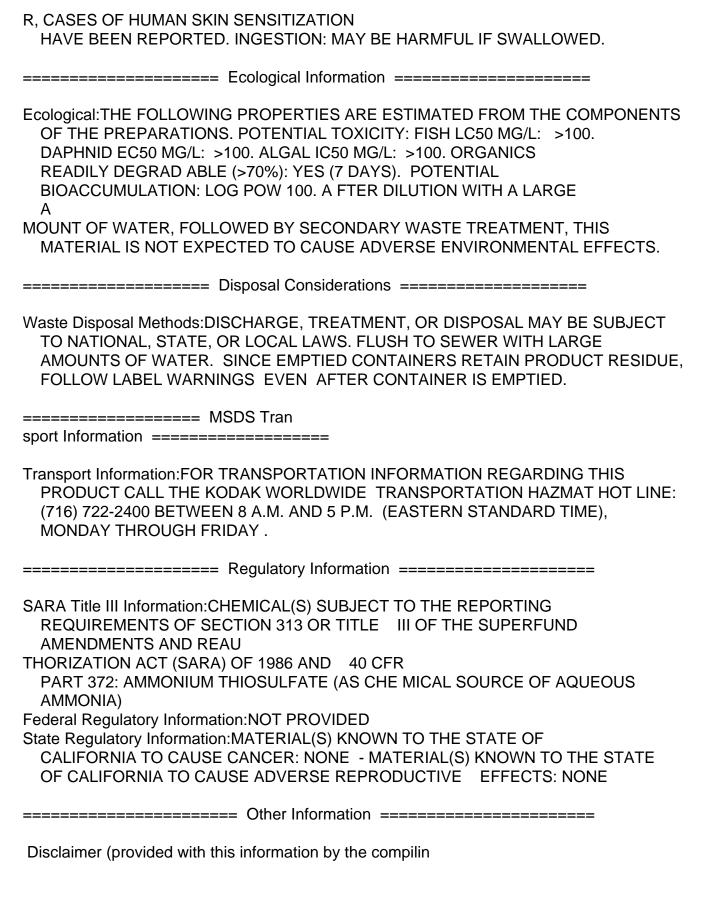
Stability Condition to Avoid:STABLE

Hazardous Decomposition Products: AMMONIA, CHLORAMINE, CARBON DIOXIDE, CARBON MONOXIDE, OXIDES OF NITROGEN, OXIDES OF SULFUR

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

## **Toxicological**

Information:EFFECTS OF EXPOSURE: INHALATION: EXPECTED TO BE A LOW HAZARD FOR RECOMMENDED HANDLING. IN CONTACT WITH STRONG ACIDS OR IF HEATED, SULFITES MAY LIBERATE SULFUR DIOXIDE GAS. SULFUR DIOXIDE GAS IS IRRITA TING TO THE RESPIRATORY TRACT. SOME ASTHMATICS OR HYPERSENSITIVE INDIVIDUALS MAY EXPERIENCE DIFFICULT BREATHING. EYES: NO SPECIFIC HAZARD KNOWN. MAY CAUSE TRANSIENT IRRITATION. SKIN: THIS MATERIAL HA S A LOW POTENTIAL TO CAUSE ALLERGIC SKIN REACTIONS; HOWEVE



## g agencies):

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