

EASTMAN KODAK COMPANY -- 197 1746 KODAK FIXER, CONCENTRATE -- 6750-00-964-9017  
===== Product Identification =====

Product ID:197 1746 KODAK FIXER, CONCENTRATE

MSDS Date:11/08/1995

FSC:6750

NIIN:00-964-9017

MSDS Number: CBSDD

=== Responsible Party ===

Company Name:EASTMAN KODAK COMPANY

Address:343 STATE STREET

City:ROCHESTER

State:NY

ZIP:14650

Country:US

Info Phone Num:716-477-3194 MSDS :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

Company Name:EASTMAN KODAK CO US CUSTOMER SERVICE/GOVERNMENT SALES

Address:800 LEE RD

Box:City:ROCHESTER

State:NY

ZIP:14650-3129

Country:US

Phone:800-828-6203

CAGE:5K871

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

=

Ingred Name:SODIUM THIOSULFATE  
CAS:7772-98-7  
RTECS #:XN6476000  
Fraction by Wt: 70-75%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:AMMONIUM ALUM, DODECAHYDRATE  
CAS:7784-25-0  
Fraction by Wt: 10-15%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:SODIUM ACETATE  
CAS:127-09-3  
RTECS #:AJ4300010  
Fraction by Wt: 5-10%  
Other REC Limits:NONE RECOMMENDED

Ingred Name:SODIUM METABISULFITE  
CAS:7681-57-4  
RTECS #:UX8225000  
Fraction by Wt: 5-10%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:5 MG/M3  
ACGIH TLV:  
5 MG/M3; 9596

Ingred Name:BORON OXIDE  
CAS:1303-86-2  
RTECS #:ED7900000  
Fraction by Wt: 1-5%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:15 MG/M3 TDUST  
ACGIH TLV:10 MG/M3; 9596

=====  
===== 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:INHALATION: EXPECTED TO BE LOW HAZARD  
FOR RECOMMENDED HANDLING. EYES: NO SPECIFIC HAZARD KNOWN. MAY CAUSE

TRANSIENT IRRITATION. SKIN: LOW HAZARD FOR RECOMMENDED HANDLING.  
INGESTION: EXPECTED TO BE A LOW INGESTION HAZARD.

Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1%  
OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.

Effects of Overexposure:INGESTION-SOME ASTHMATICS OR SULFITE-SENSITIVE  
INDIVIDUALS MAY EXPERIENCE WHEEZING, CHEST TIGHTNESS, STOMACH  
UPSET, HIVES, FAINTNESS, WEAKNESS AND DIARRHEA.

Medical Cond Aggravated by Exposure:SOME ASTHMATIC  
S OR HYPERSENSITIVE  
INDIVIDUALS MAY EXPERIENCE DIFFICULTY BREATHING.

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

First Aid:INHALATION-IF SYMPTOMATIC, MOVE TO FRESH AIR. GET MEDICAL  
ATTENTION IF SYMPTOMS OCCUR. EYES-ANY MATERIAL THAT CONTACTS THE  
EYE SHOULD BE WASHED OUT IMMEDIATELY WITH WATER. GET MEDICAL  
ATTENTION IF SYMPTOMS OCCUR. SKIN-WASH WITH SOAP & WATER. GET  
MEDICAL ATTENTION IF SYMPTOMS OCCUR. INGESTED-DRINK 1-2 GLASSES OF  
WATER. SEEK M  
EDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN  
UNCONSCIOUS PERSON.

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

Extinguishing Media:WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL.  
Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND  
PROTECTIVE CLOTHING. FIRE OR EXCESSIVE HEAT MAY PRODUCE HAZARDOUS  
DECOMPOSITION PRODUCTS.  
Unusual Fire/Explosion Hazard:POWDERED MATERIAL MAY FORM EXPLOSIVE  
DUST-AIR MIXTURE. REDUCING AGENT. GREATLY INCREASES  
THE BURNING  
RATE OF COMBUSTIBLE MATERIALS.

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

Spill Release Procedures:FLUSH TO SEWER WITH LARGE AMOUNTS OF WATER.  
OTHERWISE, SWEEP UP AND PLACE IN A CONTAINER FOR CHEMICAL WASTE.  
COLLECT IN A NONCOMBUSTIBLE CONTAINER FOR PROMPT DISPOSAL. CLEAN  
SURFACE THOROUGHLY TO REMOVE RESIDUAL CONTAMINATION.  
Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

==

Handling and Storage Precautions:KEEP CONTAINER TIGHTLY CLOSED. KEEP AWAY FROM INCOMPATIBLE SUBSTANCES. DO NOT STORE OR SHIP TOGETHER WITH COMBUSTIBLE MATERIALS.

Other Precautions:AVOID BREATHING DUST. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. USE WITH ADEUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. KEEP FROM CONTACT WITH OXIDIZING MATERIALS, HIGHLY OXYGENATED OR HALO GENATED SOLVENTS, ORGANIC COMPOUNDS, ETC

=====  
===== 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: DUST.

Ventilation:GOOD GENERAL VENTILATION (TYPICALLY 10 AIR CHANGES/HR) SHOULD BE USED. VENTILATION RATES SHOULD BE MATCHED TO CONDITIONS

Protective Gloves:IMPERVIOUS GLOVES SHOULD BE WORN.

Eye Protection:WEAR SAFETY GLASSES WITH SIDE SHIELDS.

Other Protective Equipment:EYE BATH, SAFETY SHOWER, WASHING FACILITIES.

Work Hygienic Practices:IT IS GOOD INDUSTRIAL HYGIENE PRACTICE TO MINIMIZE EYE CONTACT. WASH THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

WARNING! REDUCING AGENT. KEEP OUT OF REACH OF CHILDREN.

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

HCC:N1

Vapor Pres:NEGLIGIBLE

Solubility in Water:APPRECIABLE.

Appearance and Odor:SOLID (POWDER), WHITE COLOR, ODORLESS.

Percent Volatiles by Volume:NEGLIE

=====  
===== Stability and Reactiv

ity Data =====

Stability Indicator/Materials to Avoid:YES

STRONG ACIDS, BASES, SODIUM HYPOCHLORITE, STRONG OXIDIZING AGENTS, COMBUSTIBLE MATERIALS, HALOGENATED MATERIALS, AMMONIA

Stability Condition to Avoid:NONE SPECIFIED BY MANUFACTURER.

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

Conditions to Avoid Polymerization:WILL NOT OCCUR.

=====  
===== 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. SINCE EMPTIED CONTAINERS RETAIN PRODUCT RESIDUE, FOLLOW LABEL WARNINGS E VEN AFTER CONTAINER IS EMPTIED.

Disclaimer (provided with this information by the compiling agencies):  
This information is formulated for use by elements of the Department of Defense. The United States of America in no manner whatsoever, expressly or implied, warrants this information to be accurate and disclaims all liability for its use. Any person utilizing this document should seek competent professional advice to verify and assume responsibility for the suitability of this information to their particular situation.