

EASTMAN KODAK COMPANY -- 191 7392, VNF-1/RVNP STABILIZER/REPLENISHER --
6750-00-926-5204

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

Product ID:191 7392, VNF-1/RVNP STABILIZER/REPLENISHER

MSDS Date:07/11/1989

FSC:6750

NIIN:00-926-5204

MSDS Number: BFWWH

=== Responsible Party ===

Company Name:EASTMAN KODAK COMPANY

Address:343 STATE STREET

City:ROCHESTER

State:NY

ZIP:14650

Country:US

Info Phone Num:716-72

2-5151

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

Contract Num:DLA412-92-A-0007-P579

CAGE:19139

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

Ingred Name:FORMALDEHYDE (SARA III)

CAS:50-00-0

RTECS #:LP8925000

Fraction by Wt: 22%

Other REC Limits:NONE SPECIFIED

OSHA PEL:SE

E 1910.1048
ACGIH TLV:C 0.3 PPM; A2; 9293
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: 70-75%
Other REC Limits:NONE SPECIFIED

Ingred Name:METHYL ALCOHOL (METHANOL) (SARA III)
CAS:67-56-1
RTECS #:PC1400000
Fraction by Wt: 7%
Other REC Limits:NONE SPECIFIED
OSHA PEL:S,200PPM/250STEL
ACGIH TLV:S,200PPM/250STEL; 93
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

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

LD50 LC50

Mixture:ORAL RAT LD50 = 800 MG/KG

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

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

Health Hazards Acute and Chronic:ACUTE: INHALATION: MAY CAUSE TISSUE
DAMAGE AND SERIOUS RESPIRATORY TRACT INJURY. SKIN: MAY CAUSE BURNS.
EYES: MAY CAUSE PROFUSE LACRIMATION AND OCULAR DAMAGE. INGESTION:
MAY CAUSE BURNING IN THE MOUTH AND ESOPHAGUS. MAY CAUSE LIVER AND
KIDNEY DAMAGE. MAY CAUSE DEATH FROM CIRCULATORY FAILURE. CHRONIC:
AS THOSE OF ACUTE.

Explanation of Carcinogenicity:STUDIES SHOW THAT REPEATED EXPOSURE TO
LEVELS UP TO 14.3 PPM INDUCED NASAL CAVITY SQUAMOUS CELL CARCINOMA
IN RATS.

Effects of Overexposure:INHALATION: MAY CAUSE EYE, NOSE & THROAT
IRRITATION. MAY CAUSE DIFFICULTY IN BREATHING, BURNING OF THE NOSE
& THROAT; OR EVEN PULMONARY EDEMA AND PNEUMONITIS. SKIN & EYES:
IRRITATION, SENSITIZATION DE RMATITIS, LOSS OF VISION. INGESTION:
JAUNDICE, ALBUMINURIA, HEMATURIA, ANURIA AND

ACIDOSIS. MAY CAUSE DEATH.

Medical Cond Aggravated by Exposure: PERSONS WITH A HISTORY OF SKIN OR EYE DISORDERS MAY BE AT INCREASED RISK FROM EXPOSURE. PERSONS WITH LIVER, KIDNEY AND RESPIRATORY DISORDERS MAY ALSO BE AT INCREASED RISK.

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

First Aid: INHALATION: REMOVE TO FRESH AIR IMMEDIATELY. IF BREATHING HAS STOPPED, GIVE CPR. GET IMMEDIATE MEDICAL ATTENTION. SKIN: REMOVE CONTAMINATED CLOTHING & SHOES. WASH AFFECTED AREA WITH SOAP & WATER. GET MEDICAL ATTENTION. EYE: WASH EYES IMMEDIATELY WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION. INGESTION: DO NOT INDUCE VOMITING. GET IMMEDIATE MEDICAL ATTENTION.

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

Flash Point: 100F, 38C
Extinguishing Media: WATER SPRAY, DRY CHEMICAL, CARBON DIOXIDE, ALCOHOL FOAM.
Fire Fighting Procedures: WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING.
Unusual Fire/Explosion Hazard: NONE

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

Spill Release Procedures: TAKE UP WITH SAND OR OTHER ABSORBENT MATERIAL. APPLY UNIVERSAL GELLING AGENT TO IMMOBILIZE SPILL AS REQUIRED. VENTILATE AND EVACUATE AREA. ELIMINATE ALL SOURCES OF IGNITION. NEUTRALIZE & WASH RESIDUE WITH WATER. PLACE INTO DISPOSAL CONTAINER.
Neutralizing Agent: CEMENT POWDER OR FLY ASH

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===== Handling and Storage =====
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Handling and Storage Precautions: STORE IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM OXIDIZING MATERIALS. KEEP CONTAINER CLOSED WHEN NOT IN USE. PROTECT AGAINST PHYSICAL DAMAGE.
Other Precautions: MAY BE IGNITED BY HEAT, SPARKS OR FLAMES.

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

Respiratory Protection: A FULL FACEPIECE WITH CARTRIDGES OR CANISTERS SPECIFICALLY APPROVED BY NIOSH FOR PROTECTION AGAINST FORMALDEHYDE OR A TYPE C SUPPLIED A

IR RESPIRATOR SHOULD BE WORN IF NEEDED.

ASSURE COMPLIANCE WITH OS HA STD 29CFR 1910.134 AND 1910.1048.

Ventilation:PROVIDE LOCAL EXHAUST OR PROCESS ENCLOSURE VENTILATION TO MEET THE PUBLISHED EXPOSURE LIMITS. USE EXPLOSION-PROOF EQUIP.

Protective Gloves:NEOPRENE OR NITRILE RUBBER.

Eye Protection:SPLASH PROOF SAFETY GOGGLES/FACESHIELD.

Other Protective Equipment:PROTECTIVE CLOTHING AND EQUIPMENT TO PREVENT ANY POSSIBILITY OF SKIN CONTACT. EYE WASH STATION & SAFETY SHOWER.

Work Hygiene

Practices:WASH THOROUGHLY AFTER USE AND BEFORE EATING OR SMOKING. LAUNDRY CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

THE ROUTINE USE OF A NON-ALKALINE (ACID) TYPE OF SKIN CLEANSER AND REGULAR CLEANING OF WORKING SURFACES, GLOVES, ETC. WILL HELP MINIMIZE THE POSSIBILITY OF ALLERGIC SKIN REACTION.

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

HCC:F6

Boiling Pt:B.P. Text:205F,96C

Vapor Pres:18

Vapor Density:0.83

Spec Gravity:1.08

pH:3.5

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR, COLORLESS LIQUID - STRONG IRRITATING ALDEHYDE ODOR.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS, STRONG ALKALI

Hazardous Decomposition Products:THERMAL DECOMPOSITION PRODUCTS MAY INCLUDE UNBURNED FORMALDEHYDE AND OXIDES OF CARBON.

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

Waste Disposal M

ethods:DISPOSE I/A/W ALL APPLICABLE FEDERAL, STATE &
LOCAL REGULATIONS.

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