

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

=====  
===== 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:716-722-5

151

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

=====  
===== 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:SEE 1

910.1048  
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 Mix  
ture: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 ACI

DOSIS. 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.

=====  
===== 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.

=====  
===== 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

=====  
===== 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

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

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.

=====  
===== 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 AIR

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 Hygienic P

ractices: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

So

ubility 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 Meth

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

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 responsib  
ility for the suitability of this information to their  
particular situation.