

RICHARD-ALLAN MEDICAL INDUSTRIES -- 10% NEUTRAL BUFFERED FORMALIN V/V --
6550-01-246-8234

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

Product ID:10% NEUTRAL BUFFERED FORMALIN V/V

MSDS Date:09/01/1991

FSC:6550

NIIN:01-246-8234

MSDS Number: BNVDR

=== Responsible Party ===

Company Name:RICHARD-ALLAN MEDICAL INDUSTRIES

Address:8850 M89

Box:351

City:RICHLAND

State:MI

ZIP:49083-9580

Country:US

Info Phone Num:616

-385-4466

Emergency Phone Num:616-629-5811, CHEMTREC 800-424-3900

Preparer's Name:KATHERINE R. JOSEPH

CAGE:51883

=== Contractor Identification ===

Company Name:RICHARD-ALLAN MEDICAL INDUSTRIES

Box:351

City:RICHLAND

State:MI

ZIP:49083

Country:US

Phone:616-385-4466

CAGE:51883

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

Ingred Name:FORMALDEHYDE (SARA III)

CAS:50-00-0

RTECS #:LP8925000

Fraction by Wt: 10% V/V

Other REC Limits:NONE SPECIFIED

OSHA PEL:SEE 1910.1048

ACGIH TL

V:C 0.3 PPM; A2; 9293
EPA Rpt Qty:100 LBS
DOT Rpt Qty:100 LBS

Ingred Name:METHYL ALCOHOL (METHANOL) (SARA III)
CAS:67-56-1
RTECS #:PC1400000
Fraction by Wt: 11%
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 =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:YES IARC:YES OSHA:YES
Health Hazards Acute
and Chronic:SKIN:SEVERE IRRITANT AND SENSITIZER.
EYE:IRRITATION, PERMANENT CORNEAL CLOUDING AND LOSS OF VISION.
INHALATION:IRRITATION OF UPPER RESPIRATORY TRACT.
INGESTION:HARMFUL, MAY CAUSE BLINDNESS. CHRONIC:DE RMATITIS, HIVES,
ECZEMA, CANCER.
Explanation of Carcinogenicity:NTP-ANTICIPATED TO BE A CARCINOGEN.
IARC- PROBABLY CARCINOGENIC TO HUMANS. OSHA-REGULATED AS A
CARCINOGEN.
Effects of Overexposure:INHALATION-HEADACHE, COUGHING, TEARING AND
UNCONSCIOUSNESS. INGE
STION:NAUSEA, VOMITING. SKIN AND EYE:SEVERE
IRRITATION AND TEARING.
Medical Cond Aggravated by Exposure:SKIN AND RESPIRATORY DISEASES.

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

First Aid:INHALATION:REMOVE TO FRESH AIR. IF BREATHING HAS STOPPED OR
DIFFICULT, GIVE ARTIFICIAL RESPIRATION. INGESTION:DRINK 1-2 GLASSES
OF WATER OR MILK, OR ABSORB BY GIVING ACTIVATED CHARCOAL SLURRY. IF
VOMI TING OCCURS, KEEP HEAD BELOW HIPS. SEEKMEDICAL HELP. EYE:FLUSH

WITH WATER FOR 15 MINUTES. SKIN:WASH WITH SOAP AND WATER. IF SYMPTOMS PERSIST, CONSULT PHYSICIAN.

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

Flash Point Method:TCC

Flash Point:>140F,>60C

Autoignition Temp:Autoignition Temp Text:806F

Lower Limits:7

Upper Limits:73

Extinguishing Media:ALCOHOL FOAM, DRY CHEMICALS, CARBON DIOXIDE, WATER FOG. WATER STREAM MAY NOT BE EFFECTIVE.

Fire Fighting Procedures:WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTH ING.

Unusual Fire/Explosion Hazard:MAY PRODUCE HAZARDOUS DECOMPOSITION PRODUCTS.

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

Spill Release Procedures:VENTILATE AREA, WEAR PROTECTIVE EQUIPMENT. ABSORB ON PAPER, VERMICULITE, ETC AND SAVE FOR DISPOSAL.

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

Handling and Storage Precautions:KEEP CONTAINER CLOSED. KEEP AWAY FROM HEAT AND OPEN FLAMES. STORE AT ROOM TEMPERATURE 59-86F.

Other Precautio

ns:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:USE NIOSH-APPROVED RESPIRATOR IF TLV EXCEEDED.

Ventilation:GENERAL MECHANICAL VENTILATION IS USUALLY ADEQUATE UNDER NORMAL USE.

Protective Gloves:CHEMICAL RESISTANT GLOVES.

Eye Protection:CHEMICAL SAFETY GOGGLES.

Other Protective Equipment:PROTECTIVE CLOTHING.

Work Hygienic Practices:DO NOT EAT, DRINK OR SMOKE WHILE WORKING WITH THIS PRODUCT.

Supplemental Safety

and Health
CONTAINERS POTENTIALLY HAZARDOUS WHEN EMPTY.

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

HCC:T4
Boiling Pt:B.P. Text:204F,96C
Vapor Pres:19 MMHG
Vapor Density:1.1
Spec Gravity:1.109
pH:7.00
Evaporation Rate & Reference:0.43 (BU AC=1)
Solubility in Water:COMPLETE
Appearance and Odor:CLEAR, COLORLESS LIQUID, PUNGENT ODOR.
Percent Volatiles by Volume:98

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

Stability Indicator/Materials to
Avoid:YES
STRONG OXIDIZING AGENTS AND STRONG BASES.
Stability Condition to Avoid:HIGH TEMPERATURES
Hazardous Decomposition Products:OXIDES OF CARBON, FORMALDEHYDE GAS.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND
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 responsibility for the suitability of this information to their
particular situation.