

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

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

Product ID:10% NEUTRAL BUFFERED FORMALIN V/V

MSDS Date:09/01/1991

FSC:6550

NIIN:01-246-8234

MSDS Number: BNVD R

=== 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

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===== 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

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===== 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.

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===== 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.

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===== 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 CLOTHING.

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

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

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

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

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

Other Precautions:

ns:NONE SPECIFIED BY MANUFACTURER.

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===== 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.

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particular situation.