

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: 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 800-424-390  
0  
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 TLV: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:IRRITAT  
ION, 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. INGESTION:NAUSEA, VOMITING. SKIN AND EYE:SEVERE  
IRRITATION AND T  
EARING.  
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 CLOTHING.  
Unusual Fire/Explosion Hazard:MAY PRODUCE HAZARDOUS DECOMPO

SITION  
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 Precautions:NONE SPECIFIED BY MANUFACTURER.

===== Exposure Cont  
rols/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.

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===== 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 C

ondition 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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