

WARDS NATURAL SCIENCE ESTABLISHMENT INC -- PHENOLPHTHALEIN 2% ALCOHOL SOLUTION
-- 6810-00-445-0449

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

Product ID:PHENOLPHTHALEIN 2% ALCOHOL SOLUTION

MSDS Date:07/27/1993

FSC:6810

NIIN:00-445-0449

MSDS Number: BXCNT

=== Responsible Party ===

Company Name:WARDS NATURAL SCIENCE ESTABLISHMENT INC

Address:5100 W HENRIETTA RD

Box:92912

City:ROCHESTER

State:NY

ZIP:14692-9

012

Country:US

Info Phone Num:716-359-2502

Emergency Phone Num:716-359-2502/800-424-9300(CHEMTREC)

Preparer's Name:ALEXANDER A. PICCIRILLI

CAGE:63759

=== Contractor Identification ===

Company Name:WARDS NATURAL SCIENCE ESTABLISHMENT INC

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

Ingred Name:PHENOLPHTHALEIN

CAS:77-09-8

RTECS #:SM8380000

Fraction by Wt

: 2%
Other REC Limits:NONE RECOMMENDED

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: 18%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:NOT RELEVANT
ACGIH TLV:NOT RELEVANT

Ingred Name:ETHYL ALCOHOL (ETHANOL); TOTAL PERCENTAGE OF INGREDIENTS 3,
4, 5 AND 6 IS 70.
CAS:64-17-5
RTECS #:KQ6300000
Fraction by Wt: SEE ING
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1000 PPM
ACGIH TLV:1000 PPM; 9495

Ingred Name:METHYL ALCOHOL (METHANOL) (SARA 313) (CERCLA)
CAS:67-56-1
RTECS #:PC1400
000
Fraction by Wt: SEE # 3%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:S, 200 PPM
ACGIH TLV:S,200PPM/250STEL; 95
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ETHYL ACETATE (CERCLA)
CAS:141-78-6
RTECS #:AH5425000
Fraction by Wt: SEE # 3%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:400 PPM
ACGIH TLV:400 PPM; 9495
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:ALIPHATIC HYDROCARBONS
Fraction by Wt: SEE # 3%
Other REC Limits:NONE RECOMMENDED

===== Hazards Identifi

cation =====

LD50 LC50 Mixture:TLV FOR ETHYL ALCOHOL IS 1000 PPM.

Routes of Entry: Inhalation:YES Skin:NO Ingestion:NO

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

Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, CNS,
RESPIRATORY & GI TRACTS. ACUTE- INHALING MIST/VAPOR CAUSES
DIZZINES, HEADACHE, DROWSINESS. INGESTION MAY CAUSE CNS DEPRESSION,
NAUSEA, VOMITING, COMA. MAY BE FATAL. EYE CONTACT MAY CAUSE
BLINDNESS. SKIN CONTACT MAY CAUSE DEFATTI

NG & DRYNESS. CHRONIC-
UNKNOWN.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:IRRITATION, HEADACHE, DIZZINESS, NAUSEA,
VOMITING, ABDOMINAL DISCOMFORT OR PAIN, DROWSINESS, COMA

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTING SKIN
DISORDERS MAY BE MORE SUCCEPTIBLE TO THE EFFECTS FROM EXPOSURE TO
THIS PRODUCT.

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

First Aid:CALL A DOCTOR IF SYMPTOMS PERSIST. EYE:IMMEDIATELY FLUSH WITH
WATER FOR 15 MINUTES. HOLD EYELIDS OPEN. SKIN:WASH WITH SOAP &
WATER. INHALED:REMOVE TO FRESH AIR. PROVIDE CPR/OXYGEN IF NEEDED.
ORAL:IF CONSCIOUS, DRINK TWO GLASSES OF WATER & INDUCE VOMITING.
CALL A PHYSICIAN/POISON CONTROL CENTER IMMEDIATELY. NEVER GIVE
FLUID OR INDUCE VOMITING IF PATIENT IS UNCONSCIOUS OR HAS
CONVULSIONS.

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

Flash Point Method:TCC

Flash Point:70.0F,21.1C

Lower Limits:3.3

Upper Limits

:9.0

Extinguishing Media:DRY CHEMICAL, CARBON DIOXIDE, ALCOHOL FOAM, WATER
SPRAY. USE WATER SPRAY TO COOL FIRE-EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR FIRE FIGHTING PROTECTIVE EQUIPMENT AND A
NIOSH-APPROVED SELF CONTAINED BREATHING APPARATUS OPERATED IN
POSITIVE PRESSURE MODE. USE FLOODING AMOUNT OF WATER

Unusual Fire/Explosion Hazard:CONTAINERS MAY RUPTURE DUE TO VAPOR
PRESSURE BUILDUP. FLAME MAY NOT BE VISIBLE IN DAYLIGHT. HAZARDOUS
DECOMPOSITION PRODUCTS MAY BE F

ORMED.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. REMOVE SPILL WITH PUMP OR WITH NON-FLAMMABLE ABSORBENT SUCH AS SAND OR CLAY. PLACE IN CONTAINER FOR DISPOSAL. PREVENT LIQUID FROM ENTERING SEWERS, WATERWAYS OR LOW AREAS.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:S

TORE IN TIGHTLY CLOSED CONTAINERS IN VENTILATED AREA AWAY FROM IGNITION SOURCES & INCOMPATIBLES. KEEP OUT OF REACH OF CHILDREN.

Other Precautions:WASH THOROUGHLY AFTER HANDLING. AVOID BREATHING VAPORS OR MISTS. DO NOT INGEST. AVOID EYE CONTACT. FOR LABORATORY USE ONLY. NOT FOR DRUG, FOOD OR HOUSEHOLD USE. REMOVE AND WASH CONTAMINATED CLOTHING.

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

Respiratory Protection:FOR NORMAL LABORATORY USE AT ROOM TEMPERATURES,

NONE SHOULD BE NEEDED WITH ADEQUATE ROOM VENTILATION. IF REQUIRED, WORK IN FUME HOOD. DO NOT USE IN CONFINED AREA. IN EMERGENCIES, WEAR NIOSH-APPROVED SELF CONTAINED BREATHING APPARATUS.

Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:NATURAL RUBBER, NEOPRENE

Eye Protection:SAFETY GLASSES/FACE SHIELD OR GOGGLES

Other Protective Equipment:EYE WASH STATION & SAFETY SHOWERS SHOULD BE

AVAILABLE IN THE IMMEDIATE VICINITY OF ANY POTENTIAL EXPOSURE. LAB COAT

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING, DRINKING/SMOKING.

Supplemental Safety and Health

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

HCC:F5

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text: -112F,-80C

Melt/Freeze Pt:M.P/F.P Text: -112F,-80C

Vapor Pres: 42 @ 154F

Vapor Density: 1.6 ETOH

Spec Gravity:0

.80

Evaporation Rate & Reference:4.1 (N-BUTYL ACETATE=1)

Solubility in Water:COMPLETE

Appearance and Odor:CLEAR, WATER WHITE, MOBILE LIQUID - ALCOHOL ODOR

Percent Volatiles by Volume:98

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZING AGENTS, CONCENTRATED NITRIC OR SULFURIC ACIDS

Stability Condition to Avoid:HEAT, SPARKS, OPEN FLAMES AND OTHER
SOURCES OF IGNITION

Hazardous Decomposition Products:CARBON MONOX
IDE, CARBON DIOXIDE

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE
AND FEDERAL REGULATIONS. DISPOSE OF IN AN APPROVED INCINERATOR OR
CONTRACT WITH A LICENSED WASTE DISPOSAL SERVICE.

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