

NATIONAL RESEARCH AND CHEMICAL CO -- UNIVERSAL FOUNTAIN SOLUTION NUMBER 3 --
6850-01-014-9270

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

Product ID:UNIVERSAL FOUNTAIN SOLUTION NUMBER 3

MSDS Date:03/05/1994

FSC:6850

NIIN:01-014-9270

MSDS Number: CDFZS

=== Responsible Party ===

Company Name:NATIONAL RESEARCH AND CHEMICAL CO

Address:15600 NEW CENTURY DRIVE

City:GARDENA

State:CA

ZIP:90248-2140

Country:US

Inf

o Phone Num:310-515-1700

Emergency Phone Num:310-515-1700

Preparer's Name:PATRICK DIAMOND

CAGE:20385

=== Contractor Identification ===

Company Name:NATIONAL RESEARCH AND CHEMICAL CO

Address:15600 NEW CENTURY DRIVE

Box:City:GARDENA

State:CA

ZIP:90248-2140

Country:US

Phone:213-515-1700

CAGE:20385

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

Ingred Name:GLYCERIN (GLYCEROL)

CAS:56-81-5

RTECS #:MA8050000

Fraction by Wt: 5 - 8%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:15 M

G/M3 (MIST)
ACGIH TLV:10 MG/M3 (MIST);9596

Ingred Name:2-BUTOXYETHANOL/BUTYL CELLOSOLVE
CAS:111-76-2
RTECS #:KJ8575000
Fraction by Wt: 6 - 9%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:S, 50 PPM
ACGIH TLV:S, 25 PPM; 9596

Ingred Name:PHOSPHORIC ACID (SARA 313) (CERCLA)
CAS:7664-38-2
RTECS #:TB6300000
Fraction by Wt: 1 - 2%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:1 MG/M3
ACGIH TLV:1 MG/M3/3 STEL; 9596
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

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===== Hazards Identification =====
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LD50 LC50 Mixture:LD50 (ORAL, RAT) IS NOT KNOWN.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:TARGET ORGANS:EYE, SKIN, RESPIRATORY &
GI TRACTS. ACUTE- MAY CAUSE EYE IRRITATION. REPEATED/PROLONGED SKIN
CONTACT MAY CAUSE ABSORPTION. HIGH VAPOR CONCENTRATIONS MAY PRODUCE
RESPIRATORY IRRITATION. H ARMFUL IF SWALLOWED. CHRONIC- UNKNOWN.
Explanation of Carcinogenicity:NONE
Effects of Overexposure:IRRITATION, HEADACHE, NAUSEA, SKIN DRYNESS,
TEARING, BLURRED VISION, ITCHING
Medical Cond Aggravated by Exposure:PERSONS WITH PRE-EXISTING SKIN
DISORDERS, EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE
MORE SUSCEPTIBLE TO THE EFFECTS OF THIS PRODUCT.

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===== First Aid Measures =====
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First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMOVE TO FRESH
AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES:FLUSH WITH WATER FOR

MINUTES. HOLD EYELIDS OPEN. SKIN:WASH WITH SOAP & WATER. ORAL:SEEK IMMEDIATE MEDICAL ATTENTION.

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

Flash Point:135F,57C

Extinguishing Media:USE FOAM OR WATER SPRAY. USE WATER TO COOL FIRE-EXPOSED CONTAINERS.

Fire Fighting Procedures:DO NOT ENTER ANY ENCLOSED OR CONFINED AREA WITHOUT PROPER PROTECTIVE EQUIPMENT AND NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:FLAMMABLE

LIQUID. MAY TRAVEL CONSIDERABLE

DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. CONTAINERS MAY RUPTURE DUE TO VAPOR PRESSURE BUILDUP.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES OF IGNITION. VENTILATE AREA. PICK UP SPILL WITH NON-FLAMMABLE ABSORBENT SUCH AS SAND OR VERMICULITE. TRANSFER TO DISPOSAL DRUMS USING NON-SPARKING TOOLS. PREVENT LIQUID FROM ENTERING SEWERS OR WATERWAYS.

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Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN COOL, VENTILATED AREA, AWAY FROM HEAT, FLAMES, SPARKS, HOT SURFACES. KEEP CONTAINER TIGHTLY CLOSED.

Other Precautions:AVOID BREATHING VAPORS. DO NOT GET IN EYES, ON SKIN OR ON CLOTHING. WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING OR DRINKING. KEEP OUT OF REACH OF CHILDREN. DO NOT INGEST.

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

Respiratory Protection:NONE REQUIRED WHERE ADEQUATE VENTILATION CONDITIONS EXIST. IF AIRBORNE CONCENTRATION IS HIGH, WEAR A NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR.

Ventilation:USE EXPLOSION-PROOF VENTILATION EQUIPMENT TO CONTROL VAPOR CONCENTRATIONS.

Protective Gloves:NITRILE OR LATEX

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective Equipment:SAFETY SHOWER AND EYE WASH FOUNTAIN SHOULD BE LOCATED NEARBY. WEAR APPROPRIATE PROTECTIVE

E CLOTHING FOR RISK OF EXPOSURE.

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES.

Supplemental Safety and Health

FORMULA CHANGED. FOR PREVIOUS FORMULATION, SEE PNI A, SAME NSN.

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

HCC:F4

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:210F,99C

Spec Gravity:1.0257

Solubility in Water:COMPLETE

Appearance and Odor:BLUE LIQUID - SLIGHT ODOR

===== Stability and Re
activity Data =====

Stability Indicator/Materials to Avoid:YES

Stability Condition to Avoid:HEAT, FLAMES, SPARKS, HOT SURFACES

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

Waste Disposal Methods:DISPOSE OF IN AN APPROVED INCINERATOR OR CONTRACT WITH LICENSED CHEMICAL WASTE DISPOSAL SERVICE. DISCHARGE, TREATMENT OR DISPOSAL IS SUBJECT TO FEDERAL, STATE OR LOCAL LAWS.

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