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VAN WATERS & ROGERS INC. SUB. OF UNIVAR -- GLYCERINE, USP [BUFFER ZONE-SEEDERS] --
6850-01-390-9661

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

Product ID:GLYCERINE, USP [BUFFER ZONE-SEEDERS]

MSDS Date:08/28/1988

FSC:6850

NIIN:01-390-9661

MSDS Number: BWFJC

=== Responsible Party ===

Company Name:VAN WATERS & ROGERS INC. SUB. OF UNIVAR

Address:1600 NORTON BLDG.

City:SEATTLE

State:WA

ZIP:98104-1564

Country:U

S

Info Phone Num:408-435-8700

Emergency Phone Num:408-435-8700/800-424-9300(CHEMTREC)

CAGE:6E838

=== Contractor Identification ===

Company Name:SEEDERS BOB BUFFER ZONE

Address:3215 OAKLEAF DR

Box:City:EDMOND

State:OK

ZIP:73034-8940

Country:US

Phone:1-580-355-2182

CAGE:0TEZ8

Company Name:VAN WATERS & ROGERS INC. SUB. OF UNIVAR

Address:1600 NORTON BLDG.

Box:City:SEATTLE

State:WA

ZIP:98104-1564

Country:US

Phone:408-435-8700/800-424-9300(CHEMTREC)

CAGE:6E838

===== Composition/Information o

n Ingredients =====

Ingred Name:GLYCERIN (GLYCEROL)
CAS:56-81-5
RTECS #:MA8050000
Fraction by Wt: 96-99.5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:15 MG/M3 (MIST)
ACGIH TLV:10 MG/M3 (MIST) 9394

Ingred Name:WATER
CAS:7732-18-5
RTECS #:ZC0110000
Fraction by Wt: BALANCE
Other REC Limits:NONE RECOMMENDED

===== Hazards Identification =====

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 12600 MG/KG
Routes of Entry: Inhalation:NO Skin:NO Ingestion:NO
Reports of
Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: EXPOSURE MAY CAUSE EYE, SKIN &
RESPIRATORY TRACT IRRITATION. INGESTION MAY CAUSE SLIGHT GI TRACT
IRRITATION. CHRONIC: NO SPECIFIC INFORMATION AVAILABLE.
Explanation of Carcinogenicity:NO INGREDIENT OF A CONCENTRATION OF 0.1%
OR GREATER IS LISTED AS A CARCINOGEN OR SUSPECTED CARCINOGEN.
Effects of Overexposure:EYES: IRRITATION. SKIN: IRRITATION. INHALED:
IRRITATION. INGESTED: NAUSEA, VOMITING.
Medic
al Cond Aggravated by Exposure:NONE REPORTED.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION
IF NOT BREATHING. GET MEDICAL ATTENTION. EYE: FLUSH WITH WATER FOR
15 MINUTES. GET MEDICAL ATTENTION. SKIN: WASH WITH SOAP & WATER.
REMOVE CONTAMINATED CLOTHING. INGESTION: DO NOT INDUCE VOMITING.
NOTHING BY MOUTH IF UNCONSCIOUS. GET MEDICAL ATTENTION.

===== Fire Fighting Meas

ures =====

Flash Point Method:TCC

Flash Point:320F,160C

Extinguishing Media:WATER, CARBON DIXOIDE, DRY CHEMICAL, FOAM.

Fire Fighting Procedures:FIREFIGHTERS SHOULD WEAR FULL PROTECTIVE CLOTHING INCLUDING POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS. USE WATER TO COOL FIRE EXPOSED CONTAINERS.

Unusual Fire/Explosion Hazard:NONE.

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

Spill Release Procedures:WEAR PROPER PROTECTIVE CLOTHING/EQUIPMENT.
MOP

OR WIPE OR ABSORB IN ABSORBANT MATERIAL. PLACE IN A DOT-APPROVED CONTAINER FOR LATER DISPOSAL. KEEP OUT OF SEWERS, DRAINS AND SURFACE WATERS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:NONE SPECIFIED BY MANUFACTURER.

DLA-HMIS: STORE IN A COOL, DRY, WELL-VENTIATED PLACE AWAY FROM STRONG OXIDIZING AGENTS.

Other Precautions:NONE SPECIFIED BY MANUFACTURER.

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

Respiratory Protection:NONE NORMALLY REQUIRED. IF ENGINEERING CONTROLS FAIL OR NON-ROUTINE USE OR EMERGENCY OCCURS; USE NIOSH/MSHA APPROVED RESPIRATOR OR SUPPLIED AIR RESPIRATOR OR SCBA, AS REQUIRED. USE IAW 29 CFR 1910.134 AND MANUFACTURER'S RECOMMENDATIONS.

Ventilation:GENERAL ROOM VENTILATION.

Protective Gloves:NONE SPECIFIED BY MANUFACTURER.

Eye Protection:SAFETY GLASSES W/SIDE SHIELDS.

Other Protective Equipment:

EYE WASH STATION & SAFETY SHOWER SHOULD BE NEARBY AND READY FOR USE.

Work Hygienic Practices:WASH HANDS AFTER USE AND BEFORE EATING, DRINKING, OR SMOKING. LAUNDRY CONTAMINATED CLOTHES BEFORE REUSE.

Supplemental Safety and Health

MSDS RECEIVED FROM CAGE 0TEZ8 WAS OF VERY POOR QUALITY, BARELY READABLE.

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

HCC:N1

Boiling Pt:B.P. Text:550F,288C

Vapor Pres:NIL

Spec Gravity:1.26

Solubility in Water:COMPLETE

Appearance and

Odor: CLEAR, COLORLESS VISCOUS LIQUID; BLAND ODOR

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

Stability Indicator/Materials to Avoid: YES
CONTACT WITH STRONG OXIDIZING AGENTS MAY CAUSE AN EXPLOSION.
Stability Condition to Avoid: NONE.
Hazardous Decomposition Products: MAY LIBERATE ACROLEIN.
Conditions to Avoid Polymerization: WILL NOT OCCUR.

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

Waste Disposal Methods: NONE SPECIFIED BY MANUFACTURER. DLA-HMIS:
DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL
ENVIRONMENTAL REGULATIONS.

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