

AKZO CHEMICALS INC. -- FYRQUEL 220 MLT -- 9150-01-113-2047

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

Product ID:FYRQUEL 220 MLT

MSDS Date:03/07/1997

FSC:9150

NIIN:01-113-2047

MSDS Number: CFFGR

=== Responsible Party ===

Company Name:AKZO CHEMICALS INC.

Address:300 S RIVERSIDE PLAZA

City:CHICAGO

State:IL

ZIP:60606

Country:US

Info Phone Num:312-906-7522

Emergency Phone Num:312-906-7054,800-424-9300(CHEMTRE  
C)

Preparer's Name:PRODUCT SAFETY

CAGE:1F176

=== Contractor Identification ===

Company Name:AKZO CHEMICALS INC

Address:STATE RT 2

Box:1712

City:GALLIPOLIS FERRY

State:WV

ZIP:25515-1721

Country:US

Phone:304-675-1150

CAGE:1F176

Company Name:AKZO NOBEL CHEMICALS INC

Address:300 S. RIVERSIDE PLAZA

Box:City:CHICAGO

State:IL

ZIP:60606-6613

Country:US

Phone:312-906-7500 TECH: 800-828-792

CAGE:97854

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

Ingred Name:TRIPHENYL PHOSPHATE

CA

S:115-86-6  
RTECS #:TC8400000  
Fraction by Wt: 15-25%  
Other REC Limits:NONE RECOMMENDED  
OSHA PEL:3 MG/M3  
ACGIH TLV:3 MG/M3; 9596

Ingred Name:BUTYLATED TRIPHENYL PHOSPHATE MIXTURE  
Fraction by Wt: 75-85%  
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD 50 ORAL RAT IS > 5000 MG/KG.  
Routes of Entry: Inhalation:NO Skin:YES Ingestion:NO  
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO  
Health Hazards Acute and Chronic:SKIN  
& EYE CONTACT MAY RESULT IN  
IRRITATION. INHALATION MAY CAUSE RESPIRATORY IRRITATION. INHALATION  
OR INGESTION OF TRIPHENYL PHOSPHATE MAY CAUSE CHLINESTERAE  
INHIBITION. INGESTION MAY CAUSE GI TRACT IRRITATION. CHRONIC:  
PROLONGED/REPEATED EXPOSURE MAY CAUSE SKIN AND/OR EYE IRRITATION.  
Explanation of Carcinogenicity:NONE OF THE INGREDIENTS IN THIS PRODUCT  
IS LISTED BY NTP, IARC OR OSHA AS A CARCINOGEN.  
Effects of Overexposure:IRRITATION OF EYES, SKIN, RESPIRATORY TRACT.  
SYM  
PTOMS OF CHOLINESTERASE INHIBITION ARE SALIVATION, SWEATING,  
HEADACHE, NAUSEA, MUSCLE TWITCHING, TREMORS, INCOORDINATION,  
BLURRED VISION, TEARS, ABDOMIN AL CRAMPS, DIARRHEA AND CHEST  
DISCOMFORT. MAY LEAD TO CONVULSIONS, PULMONARY EDEMA, RESPIRATORY  
FAILURE AND DEATH.  
Medical Cond Aggravated by Exposure:NONE SPECIFIED BY MANUFACTURER.

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

First Aid:IN ALL CASES GET MEDICAL ATTENTION. EYES-FLUSH WITH WATER FOR  
1  
5 MINUTES. SKIN-REMOVE CONTAMINATED CLOTHES. WASH WITH MILD SOAP &  
WATER. INHALED-REMOVE TO FRESH AIR. GIVE OXYGEN OR ARTIFICIAL  
RESPIRAT ION AS NEEDED. INGESTED-CONTACT POISON CONTROL CENTER OR  
PHYSICIAN IMMEDIATELY! DO NOT INDUCE VOMITING! NOTE: ATROPINE IS  
ANTODOTAL; 2-PAM ALSO IS WHEN IN CONJUNCTION WITH ATROPINE.

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

Flash Point Method:PMCC  
Flash Point:475F,246C  
Extinguishing Media:USE WATER SPRAY, CARBON DIO

XIDE, OR DRY CHEMICALS  
EXTINGUISHING AGENTS.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD USE NIOSH APPROVED  
FULL-FACE, SCBA AND IMPERVIOUS PROTECTIVE CLOTHING. USE WATER SPRAY  
TO COOL FIRE-EXPOSED CONTAINERS TO PREVENT RUPTURE.

Unusual Fire/Explosion Hazard:THIS PRODUCT IS NOT DEFINED AS FLAMMABLE  
OR COMBUSTIBLE. IS SELF-EXTINGUISHING. MATERIAL IS NOT SENSITIVE TO  
STATIC DISCHARGE OR PHYSICAL IMPACT. DECOMPOSES.

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

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Spill Release Procedures:VENTILATE AREA. WEAR PROTECTIVE CLOTHING AND  
EQUIPMENT. ABSORB SPILL WITH INERT MATERIAL AND PLACE IN COVERED  
DISPOSAL CONTAINER.BRUSH AREA WITH LAUNDRY DETERGENT AND WATER.  
DIKE WATER FOR DISPOSAL. D O NOT ALLOW CONTAMINATED WATER TO  
ENTERWATERWAYS.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN COOL, DRY, WELL VENTILATED  
AREA.

PROTECT FROM PHYSICAL DAMAGE, HEAT, AND IGNITION SOURCES.  
KEEP CONTAINERS CLOSED.

Other Precautions:STORE AWAY FROM FOODSTUFFS. AVOID PROLONGED STORAGE  
AT ELEVATED TEMPERATURES UNDER WET ALKALINE OR ACIDIC  
CONDITIONS.PREVENT MOISTURE CONDENSATION IN THE CONTAINER.AT  
TEMPERATURES BELOW 40F IMPROVED P UMPING RATES MAY BE ACHIEVED BY  
WARMING.

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

Respiratory Protection:NONE REQUIRED WITH ADEQUATE VENTILATION. WHER  
E

ADEQUATE VENTILATION IS NOT AVAILABLE USE NIOSH-APPROVED RESPIRATOR  
WITH DUST,MIST AND FUME FILTERS.FOR HIGHER LEVEL OF PROTECTION USE  
NIOSH-APPROVED POS ITIVE-PRESSURE,AIR-SUPPLIED RESPIRATOR.

Ventilation:LOCAL EXHAUST VENTILATION.

Protective Gloves:IMPERVIOUS GLOVES.

Eye Protection:CHEMICAL SAFETY GOGGLES.

Other Protective Equipment:PROTECTIVE CLOTHING AS REQUIRED TO MINIMIZE  
EXPOSURE. EYE WASH STATION AND SAFETY SHOWER.

Work Hygienic Practices:WASH AFTER HANDLING AND BEFORE

EATING, DRINKING

OR SMOKING. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

Supplemental Safety and Health

ALL FOOD SHOULD BE KEPT IN A SEPARATE AREA AWAY FROM THE STORAGE/USE LOCATION. EATING, DRINKING, AND SMOKING SHOULD BE PROHIBITED IN AREAS WHERE THERE IS A POTENTIAL FOR SIGNIFICANT EXPOSURE TO THIS MATERIAL.

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

HCC:V1

Melt/Freeze Pt:M.P/F.P Text:0F,-18C

Vapor Pres: