

AKZO NOBEL CHEMICAL INC -- FYRQUEL 220 MLT -- 9150-01-113-2046

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

Product ID:FYRQUEL 220 MLT

MSDS Date:12/08/1999

FSC:9150

NIIN:01-113-2046

MSDS Number: CGLTW

=== Responsible Party ===

Company Name:AKZO NOBEL CHEMICAL INC

Address:5 LIVINGSTONE AVE

City:DOBBS FERRY

State:NY

ZIP:10522

Country:US

Info Phone Num:914-674-5000/800-666-1200

Emergency Phone Num:914-693-694

6 (MEDICAL)

Preparer's Name:NOT PROVIDED

Chemtrec Ind/Phone:(800)424-9300

CAGE:01GF0

=== Contractor Identification ===

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

Company Name:AKZO NOBEL CHEMICALS INC.

Address:5 LIVINGSTONE AVE

Box:City:DOBBS FERRY

State:NY

ZIP:10522

Country:US

Phone:800-666-1200

CAGE:01GF0

Company Name:SALATHE OIL CO INC

Address:2226 PETERS RD

Box:City:HA

RVEY
State:LA
ZIP:70058
Country:US
Phone:504-366-4542
CAGE:0T5C6
Company Name:SDB CONSULTANTS LTD
Address:401 WHITNEY AVE SUITE 120
Box:City:GRETNA
State:LA
ZIP:70056
Country:US
Phone:504-366-9105
Contract Num:SPO450-01-M-C580
CAGE:0PGK2

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

Ingred Name:TRIPHENYL PHOSPHATE
CAS:115-86-6
RTECS #:TC8400000
Minumum % Wt:15.
Maxumum % Wt:25.
Other REC Limits:3 MG/M3 (MFR)
OSHA PEL:3 MG/M3
ACGIH TLV:3 MG/M3

Ingred Name:BUTYLATED TRIP
HENYL PHOSPHATE (MIXTURE)
Minumum % Wt:75.
Maxumum % Wt:75.
Other REC Limits:NOT DETERMINED
OSHA PEL:NOT DETERMINED
ACGIH TLV:NOT DETERMINED

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) IS >5,000 MG/KG.
Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO
Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:ACUTE: INHALATION: INHALATION OF
VAPORS OR MISTS MAY CAUSE RESPIRATORY TRACT IRRITATION. T

RIPHENYL

PHOSPHATE MAY CAUSE CHOLINESTERASE INHIBITION. SYMPTOMS MAY INCLUDE HEADACHE, NAUSEA, SWEATING, NUMBN ESS, SALIVATION, MUSCLE TWITCHING, TREMORS, INCOORDINATION, BLURRED VISION, TEARS, ABDOMINAL CRAMPS, DIARRHEA, CHEST DISCOMFORT. SKIN CONTACT: MAY CAUSE MILD IRRITATION. EYE CONTACT: MAY CAUSE MILD IR RITATION. INGESTION: MAY CAUSE IRRITATION OF THE GASTROINTESTINAL SYSTEM AND DIARRHEA. INGESTION OF TRIPHENYL PHOSPHATE MAY CAUSE CHOLINESTERASE INHIBITION.

CHRONIC: MAY CAUSE SKIN IRRITATION.

Explanation of Carcinogenicity:NONE

Effects of Overexposure:INHALATION OF VAPORS OR MISTS MAY CAUSE RESPIRATORY TRACT IRRITATION, HEADACHE, NAUSEA, SWEATING, NUMBNESS, SALIVATION, MUSCLE TWITCHING, TREMORS, INCOORDINATION, BLURRED VISION, TEARS, ABDOMINAL CRAM PS, DIARRHEA, CHEST DISCOMFORT. SKIN CONTACT MAY CAUSE MILD IRRITATION. EYE CONTACT MAY CAUSE MILD IRRITATION. INGESTION MAY CAUSE IRRITATION OF THE GASTROINTESTINAL SYSTEM AND D

IARRHEA.

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTING NEUROMUSCULAR DISORDERS MAY HAVE INCREASED SUSCEPTIBILITY TO THE TOXICITY OF EXCESSIVE EXPOSURES.

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

First Aid:INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL ATTENTION. SKIN CONTACT: REMOVE CONTAMINATED CLOTHING. THROUGHLY WAS H AFFECTED AREA WITH SOAP AND PLENTY OF WATER . GET MEDICAL ATTENTION IF IRRITATION PERSISTS. EYE CONTACT: IMMEDIATELY FLUSH EYES WITH PLENTY OF RUNNING WATER. REMOVE CONTACT LENSES. HOLD EYELIDS APAR T DURING FLUSHING. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. INGESTION: CALL A PHYSICIAN/POISON CONTROL CENTER IMMEDIATELY. DO NOT INDUCE VOMITING UNLESS DIRECTED BY MEDICAL PERSONNEL. IF VOMITING OCCURS, KEEP HEAD BELOW HIPS.

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

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Flash Point Method:PMCC

Flash Point:=246.1C, 475.F

Autoignition Temp:Autoignition Temp Text:N/D

Lower Limits:N/D

Upper Limits:N/D

Extinguishing Media:USE WATER FOG OR SPRAY, DRY CHEMICAL, FOAM OR CARBON DIOXIDE EXTINGUISHING AGENTS.

Fire Fighting Procedures:FIRE FIGHTERS SHOULD WEAR FULL-FACE, SELF-CONTAINED BREATHING APPARATUS AND IMPERVIOUS PROTECTIVE CLOTHING. IF POSSIBLE, MOVE CONTAINERS FROM THE FIRE AREA. IF NOT LEAKING, KEEP FIRE EXPOSED CONTAINER S COOL WITH WATER FOG

OR

SPRAY. AVOID HIGH PRESSURE WATER. DIKE FIRE CONTROL WATER FOR DISPOSAL.

Unusual Fire/Explosion Hazard:THIS PRODUCT IS NOT DEFINED AS FLAMMABLE OR COMBUSTIBLE. IT IS SELF-EXTINGUISHING ONCE THE SOURCE OF IGNITION IS REMOVED.

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

Spill Release Procedures:STOP SPILL AT SOURCE IF WITHOUT RISK. DIKE AREA. SOAK UP LIQUID WITH A SUITABLE ABSORBENT SUCH AS CLAY, SAWDUST/KITTY LITTER. SWEEP UP ABSORBENT MATERIAL AND PLACE IN A

CHEMICAL WASTE CONTAINER FOR DI SPOSAL. CAUTION: SPILL AREA MAY BE SLIPPERY. COVER SPILL AREA WITH A SLURRY OF POWDERED HOUSEHOLD DETERGENT AND WATER. USE STIFF BRUSH. WAIT 2-3 MINUTES, THEN FLUSH WITH WATER. DO NOT FLUSH TO SEWERS.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE AWAY FROM FOODSTUFFS AND ANIMAL FEED. CONTAINERS SHOULD BE STORED IN A COOL, DRY, WELL-VENTI LATED

AREA AWAY FROM FLAMMABLE OR OXIDIZING MATERIALS AND SOURCES OF HEAT OR FLAME. PREVENT DAMAGE TO C ONTAINERS. AVOID PROLONGED STORAGE AT ELEVATED TEMPERATURE UNDER WET ALKALINE OR ACIDIC CONDITIONS.

Other Precautions:AVOID EYE AND SKIN CONTACT. HANDLE IN WELL-VENTILATED AREA. AVOID INHALATION OF VAPORS OR MIST. WASH THOROUGHLY AFTER HANDLING. EMPTIED CONTAINER MAY RETAIN PRODUCT RESIDUES. FOLLOW ALL WARNINGS AND P RECAUTIONS EVEN AFTER CONTAINER IS EMPTIED.

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

Respiratory Protection:IF ENGINEERING CONTROLS DO NOT MAINTAIN AIRBORNE CONCENTRATIONS TO AN ACCEPTABLE LEVEL, A NIOSH-APPROVED ORGANIC VAPOR/ ACID GAS RESPIRATOR WITH DUST, MIST AND FUME FILTERS MUST BE WORN. FOR HIGHER LE VEL OF PROTECTION, USE ANIOSH-APPROVED, POSITIVE-PRESSURE, PRESSURE DEMAND, AIR-SUPPLIED RESPIRATOR. CHANGE CARTRIDGES OR CANISTERS FREQUENTLY.

Ventilation:WELL

Protective Gloves:NEOPRENE

Eye Pro

tection:CHEMICAL SAFETY GOGGLES OR FACE SHIELD

Other Protective Equipment:SUITABLE PROTECTIVE CLOTHING, GLOVES, FOOT WEAR

Work Hygienic Practices:NOT PROVIDED

Supplemental Safety and Health

ABBREVIATION: N/A=NOT APPLICABLE OR NOT AVAILABLE. N/K=UNKNOWN. N/P=NOT PROVIDED. N/R=NOT RELEVANT. N/D=NOT DETERMINED. N/E=NOT ESTABLISHED. CNS=CENTRAL NERVOUS SYSTEM. GI=GASTROINTESTINAL.

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

HCC:V6

NRC/State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:NOT DETERMINED

Melt/Freeze Pt:M.P/F.P Text:NOT DETERMINED

Decomp Temp:Decomp Text:NOT PROVIDED

Vapor Pres:< 0.1 @ 100F

Vapor Density:N/D

Spec Gravity:NOT DETERMINED

Viscosity:220 SUS @100F

Evaporation Rate & Reference:NOT DETERMINED

Solubility in Water: 3.1 MG/L

(4-HOURS). DERMAL: PRACTICALLY NON-TOXIC. LD50 (RABBIT) > 2000

MG/KG. LD50 (ORAL, RAT) > 5,000 MG/KG. NEUROTOXICITY: NONE NOTED.

TARGET ORGANS: OVEREXPOSURE MAY AFFECT THE SKIN, EYES, RESPIRATORY

SYSTEM, AND CENTRAL AND PERIPHERAL NERVOUS SYSTEM.

===== Ecological Information =====

Ecological:ECOTOXICOLOGICAL INFORMATION: 96-HR. LC50 (RAINBOW TROUT): >

2 MG/L. 96-HR. LC50 (SHEEPSHEAD MINNOW): > 1 MG/L. 96-HR. LC50

(MYSID SHRIMP): = 0.39 MG/L. TRIARYL PHOSPHATE ESTERS, INCLUDING

TRIPHENYL P HOSPHATE, EXHIBIT LOW AQUEOUS SOLUBILITY, HAVE MODERATE

POTENTIAL FOR BIOCONCENTRATION, AND READILY UNDERGO BIODEGRADATION.

HYDROLYSIS RATES OF

TRIPHENYL PHOSPHATE ARE: AT PH 9.5: HALF-LIFE:

0.23 DAY. AT PH 8.2: HALF-LIFE: 7.5 DAYS.

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

Waste Disposal Methods:MATERIAL THAT CANNOT BE USED OR CHEMICALLY

REPROCESSED SHOULD BE DISPOSED OF IN ACCORDANCE WITH ALL APPLICABLE

REGULATIONS. PRODUCT CONTAINERS DESIGNED FOR SINGLE USE SHOULD BE

THOROUGHLY EMPTIED BEF ORE DISPOSAL. NOTE: STATE AND LOCAL

REGULATIONS MAY BE MORE STRINGENT THAN FEDERAL.

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===== MSDS Transport Information =====

Transport Information:NON-BULK (119 GALLONS) ARE REGULATED AS: ENVIRONMENTALLY HAZARDOUS

SUBSTANCE, LIQUID, N.O.S. (TRIPHENYL PHOSPHATE 10-48%), 9, UN3082, PG III. NORTH AMERICAN EMERGENCY RESPONSE GUIDE NO. 171.

===== Regulatory Information =====

SARA Title III Information:NOT PROVIDED

Federal Regulatory Information:TSCA LISTED.

State Regulatory Information:MASSACHUSETTS SUBSTANCE LIST; NEW JERSEY

RIGHT-TO-KNOW HAZARD. SUB.; PENNSYLVANIA HAZARDOUS SUBSTANCE LIST.

===== Other Information =====

Disclaimer (provided with this information by the compiling agencies):

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