

AKZO NOBEL INC (FMRLY STAUFFER CHEMICAL CO AND AKZO CHEM) -- FYRQUEL 220 MELT
FIRE-RESISTANT HYDRAULIC FLUID -- 9150-01-113-2045

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

Product ID:FYRQUEL 220 MELT FIRE-RESISTANT HYDRAULIC FLUID

MSDS Date:01/01/1992

FSC:9150

NIIN:01-113-2045

Status Code:A

MSDS Number: CJPQJ

=== Responsible Party ===

Company Name:AKZO NOBEL INC (FMRLY STAUFFER CHEMICAL CO AND AKZO CHEM)

Address:300 S RIVERSIZE PLZ

City:CHICAGO

State:IL

ZIP:60606-6613

Country:US

Info Phone Num:312-906-7500

Emergency Phone Num:(800)424-9300

Resp. Party Other MSDS Num.:84436/FYR044

Chemtec Ind/Phone:(800)424-9300

CAGE:00488

=== 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 INC (FMERLY STAUFFER CHEMICAL CO AND AKZO

CHEM)

Address:300 S RIVERSIZE PLZ

Box:City:CHICAGO

State:IL

ZIP:60606-6613

Country:US

Phone:312-906-7500

CAGE:00488

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:SP0450-99-M-NG76

CAGE:0PGK2

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

Ingred Name:PHOSPHORIC ACID, (1,1-DIMETHYLETHYL)PHENYL DIPHENYL ESTER

CAS:56803-37-3

Minimum % Wt:35.

IC ACID, BIS((1,1-DIMETHYLETHYL)PHENYL) PHENYL
ESTER

CAS:65652-41-7

Minumum % Wt:25.

Maxumum % Wt:30.

Ingred Name:TRIPHENYL PHOSPHATE

CAS:115-86-6

RTECS #:TC8400000

Minumum % Wt:15.

Maxumum % Wt:20.

OSHA PEL:3 MG/M3

ACGIH TLV:3 MG/M3

Ingred Name:PHENOL, 4-(1,1-DIMETHYLETHYL)-, PHOSPHATE (3:1)

CAS:78-33-1

Minumum % Wt:6.

Maxumum % Wt:10.

Ingred Name:BUTYLATED TRIPHENYL PHOSPHATE

Minumum % Wt:6.

Maxumum % Wt:10.

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

LD50 LC5

0 Mixture:LD50 >5,000 MG/KG IN RATS.

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

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

Health Hazards Acute and Chronic:THERE ARE NO DATA AVAILABLE WHICH

ADDRESS SIGNS AND SYMPTOMS OF EXPOSURE, THE EFFECTS OF LONG-TERM EXPOSURE OR ANY MEDICAL CONDITIONS THAT ARE GENERALLY RECOGNIZED AS BEING AGGRAVATED BY EXPOSURE. TR IPHENYL PHOSPHATE HAS BEEN REPORTED TO BE A CHOLINESTERASE INHIBITOR.

Explanation of Carcinogenicity:THE

PRODUCT WAS EXAMINED IN AN IN VITRO

MALIGNANT TRANSFORMATION TEST UTILIZING BALB/3T3 CELLS. THE PRODUCT DID NOT INDUCE MORPHOLOGIC TRANSFORMATIONS AND THUS DID NOT EXHIBIT CARCINOGENIC POTENTIAL I N THIS TEST.

Effects of Overexposure:TRIPHENYL PHOSPHATE HAS BEEN REPORTED TO BE A CHOLINESTERASE INHIBITOR. SYMPTOMS INCLUDE: SALIVATION, SWEATING, HEADACHE, NAUSEA, MUSCLE TWITCHING, TREMORS, INCOORDINATION, BLURRED VISION, TEARS, ABDO MINAL CRAMPS, DIARRHEA AND CHEST DIS

COMFORT. SEVERE CHOLINESTERASE INHIBITION MAY LEAD TO CONVULSIONS, PULMONARY EDEMA, RESPIRATORY FAILURE AND DEATH.

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

First Aid:INGESTION:IMMEDIATELY GIVE SEVERAL GLASSES OF WATER BUT DON'T INDUCE VOMITING. IF VOMITING OCCURS, GIVE FLUIDS AGAIN. SEEK MEDICAL ADVISE ABOUT HAVING PATIENT VOMIT. DO NOT GIVE ANYTHING BY MOUTH TO A N UNCONSCIOUS OR CONVULSING PERSON. SKIN:FLUSH WITH LARGE AMOUNTS OF WATER FOR 15 M IN WHILE REMOVING CONTAMINATED CLOTHING. EYES:IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER. OBTAIN IMMEDIATE MEDICAL ATTENTION. INHALATION:REMOVE TO FRESH AIR. IF NOT BREATHING, ASSIST WITH BREATHING SUPPORT MEASURES. GET IMMEDIATE MEDICAL ATTENTION.

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

Flash Point Method:PMCC
Flash Point:=246.1C, 475.F
Extinguishing Media:USE WATER SPRAY, DRY CHEMICALS OR CARBON DIOXIDE.
Fire Fighting Procedures:FIREFIGHTERS S HOULD WEAR FULL-FACE, SELF-CONTAINED BREATHING APPARATUS AND IMPERVIOUS PROTECTIVE CLOTHING.
Unusual Fire/Explosion Hazard:KEEP FIRE EXPOSED CONTAINERS COOL WITH A WATER SPRAY TO PREVENT RUPTURE DUE TO EXCESSIVE HEAT. HIGH PRESSURE WATER HOSE MAY SPREAD PRODUCT FROM BROKEN CONTAINERS INCREASING CONTAMINATION OR FIRE HAZAR D.

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

Spill Release Procedures:USE ADEQUATE VENTILATION- WEAR A NIOSH-APPROVED RESPI RATOR WITH DUST, MIST & FUMES FILTER. WEAR PROTECTIVE CLOTHING. SOAK UP POOLED LIQUID WITH ABSORBENT SUCH AS CLAY, SAWDUST OR KITTY LITTER. SWEEP UP ABSORBED MATERIAL & PLACE IN CHEMICAL WASTE CONTAINER. COVER SPILL AREA WITH A SLURRY OF POWDERED LAUNDRY DETERGET & WATER. ALLOW TO STAND 2-3 MIN THEN FLUSH WITH WATER. DIKE & PUMP LARGE SPILLS.

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

Handling and Storage Precautions:STORE IN A COOL, DRY, WELL VENT

ILATED

AREA AWAY FROM FLAMMABLE MATERIALS & SOURCES OF HEAT OR FLAME. STORE AWAY FROM FOODSTUFFS OR ANIMAL FEED. PROLONGED STORAGE AT ELEVATED TEMPERATURES UNDER WET AL KALINE CONDITIONS SHOULD BE AVOIDED. PREVENT MOISTURE CONDENSATION IN THE CONTAINER.

Other Precautions:EXERCISE DUE CAUTION TO PREVENT DAMAGE TO OR LEAKAGE FROM THE CONTAINER. CARBON STEEL IS THE PREFERRED MATERIAL FOR STORAGE CONTAINERS. TEMPERATURES FROM 80-100 DEG F PROVIDE GOOD RATES OF FLOW.

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

Respiratory Protection:WHERE ADEQUATE VENTILATION IS NOT AVAILABLE, USE NIOSH-APPROVED, ORGANIC VAPOR RESPIRATORS WITH DUST, MIST & FUME FILTERS TO REDUCE EXPOSURE. IF A HIGHER LEVEL OF PROTECTION IS REQUIRED, USE A POSITIV E-PRESSURE, AIR-SUPPLIED RESPIRATOR.

Ventilation:LOCAL EXHAUST VENTILATION, ENCLOSED SYSTEM DESIGN, PROCESS ISOLATION & REMOTE CONTROL, WET PROCESSING METHODS OR CONTINUOUS MONITORING DEVICES

Protective Gloves:USE GLOVES.

Eye Protection:CHEMICAL SAFETY GLASSES, GOGGLES OR A FACE SHIELD.

Other Protective Equipment:SUITABLE LONG-SLEEVED CLOTHING.

Work Hygienic Practices:CLEAN EQUIPEMENT & PIPING SYSTEMS BEFORE MAINTENANCE.

Supplemental Safety and Health

THE FEDERAL OSHA PERMISSIBLE EXPOSURE LIMIT (PEL) IS AN 8-HOUR, TIME-WEIGHTED AVERAGE OF 3 MG/M3 (29 CFR 1910.1000).

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

HCC:V5

Decomp Temp:>351.7C, 665.F

Vapo

r Pres: 3.1 MG/L (GREATER THAN 99 %

RESPIRABLE) PRODUCED RUFFLED FUR & NO MORTALITY IN MALE & FEMALE RATS.

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

Waste Disposal Methods:MATERIAL THAT CANNOT BE USED OR CHEMICALLY REPROCESSED & EMPTY CONTAINERS SHOULD BE DISPOSED OF AT AN APPROVED FACILTIY IN ACCORDANCE WITH ANY APPLICABLE REGULATIONS. NOTE: STATE & LOCAL REGULATIONS M AY BE MORE STRINGENT THAN FEDERAL.

===== Other Information

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