

AKZO NOBEL CHEMICALS INC -- 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: CLHSJ

=== Responsible Party ===

Company Name:AKZO NOBEL CHEMICALS INC

Address:300 S. RIVERSIDE PLAZA

City:CHICAGO

State:IL

ZIP:60606-66

13

Country:US

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

Emergency Phone Num:312-906-7500

Resp. Party Other MSDS Num.:84436/FYR044

CAGE:97854

=== 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: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-

01-M-LM68
CAGE:0PGK2

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Composition/Information on Ingredients
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Ingred Name:PHOSPHORIC ACID, (1,1-DIMETHYLETHYL)PHENYL DIPHENYL ESTER
CAS:56803-37-3
Minumum % Wt:35.
Maxumum % Wt:40.

Ingred Name:PHOSPHORIC 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
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Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO
Health Hazards Acute and Chronic:TRIPHENYL PHOSPHATE HAS BEEN REPORTED
TO BE A CHOLINESTERASE INHIBITOR. SEVERE CHOLINESTERASE INHIBITION
MAY LEAD TO CONVULSIONS, PULMONARY EDEMA, RESPIRATORY FAILURE AND
DEA

TH.

Effects of Overexposure:SYMPTOMS OF CHOLINESTERASE INHIBITION MAY INCLUDE SALIVATION, SWEATING, HEADACHE, NAUSEA, MUSCLE TWITCHING, TREMORS, INCOORDINATION, BLURRED VISION, TEARS, ABDOMINAL CRAMPS, DIARRHEA AND CHEST DISCOMFORT.

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

First Aid:CALL A POISON CENTER OR A PHYSICIAN IMMEDIATELY. IF A KNOWN EXPOSURE OCCURS OR IS SUSPECTED, IMMEDIATELY START THE RECOMMENDED PROCEDURES BELOW. SIMULTANEOUSLY CONTACT A POISON CENTER, A PHYSICIAN OR THE NEAREST HOSPITAL. NOTE: BE SURE TO ADVISE THE PERSON CONTACTED THAT TRIPHENYL PHOSPHATE, WHICH COMPRISES 15-30% OF THIS PRODUCT, HAS BEEN REPORTED TO BE A CHOLINESTERASE INHIBITOR. INFORM THE PERSON CONTACTED OF THE TYPE AND EXTENT OF EXPOSURE, DESCRIBE THE VICTIM'S SYMPTOMS AND FOLLOW THE ADVICE GIVEN.

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

Flash Point Method:PMCC
Flash Point:246.1C, 475.F

Extinguishing Media:

USE STANDARD FIREFIGHTING TECHNIQUE TO EXTINGUISH FIRES INVOLVING THIS MATERIAL. USE WATER SPRAY, DRY CHEMICALS OR CARBON DIOXIDE.

Fire Fighting Procedures:FIREFIGHTERS SHOULD 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 HAZARD.

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

Spill Release Procedures:ANY PERSON ENTERING EITHER A SIGNIFICANT SPILL AREA OR AN AREA OF UNKNOWN CONCENTRATION OF A GAS, VAPOR, OR DUST SHOULD USE A POSITIVE-PRESSURE, SELF-CONTAINED BREATHING APPARATUS OR A POSITIVE-PRESSURE, AIR-SUPPLIED RESPIRATOR WITH ESCAPE PACK. SMALL SPILL CAN BE HANDLED ROUTINELY, USE ADEQUATE VENTILATION AND/OR WEAR A NIOSH-APPROVED RESPIRATOR

OR WITH DUST, (SEE OTHER INFORMATION).

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

Handling and Storage Precautions:CONTAINES SHOULD BE STORED IN A COOL, DRY, WELL VENTILATED AREA AWAY FROM FLAMMABLE MATERIALS AND SOURCES OF HEAT OR FLAME. STORE AWAY FROM FOODSTUFFS OR ANIMAL FEED. EXERCISE DUE CAUTION TO PREVENT D AMAGE TO OR LEAKAGE FROM THE CONTAINER.

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

Respiratory Protection:IF U SE CONDITIONS GENERATE AIRBORNE AEROSOL, THE MATERIAL SHOULD BE HANDLED IN AN OPEN OR WELL VENILATED AREA. WHERE ADEQUATE VENTILATION IS NOT AVAILABLE, USE NIOSH-APPROVED, ORGANIC VAPOR RESPIRATOR S WITH DUST, MIST AND FUME FILTERS TO REDUCE EXPOSURE. SEE SUPPLEMENTAL DATA.

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

Protective Gloves:RECOMMENDED

Eye Protectio

n:CHEMICAL SAFETY GLASSES, GOGGLES OR FACE SHIELD.

Other Protective Equipment:SUITABLE LONGSLEEVED CLOTHING TO MINIMIZE SKIN CONTACT. BEFORE EATING, HAND AND FACE SHOULD BE THOROUGHLY WASHED.

Work Hygienic Practices: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 THE POTENTIAL FOR EXPOSURE.

Supplemental Safety and Health

WHERE EXPOSRE POTENTIAL UNDER THE USE CONDITIONS NECESSIT ATES A HIGHER LEVEL OF PROTECTION, USE A POSITIVE- PRESSURE, AIR-SUPPLIED RESPIRATOR.

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

HCC:V5

Decomp Temp:>351.7C, 665.F

Vapor Pres: