

FUEL QUALITY SERVICES, INC. -- LTSA-15 -- 6850-01-167-4789

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

Product ID:LTSA-15

MSDS Date:04/11/1995

FSC:6850

NIIN:01-167-4789

MSDS Number: BWSHL

=== Responsible Party ===

Company Name:FUEL QUALITY SERVICES, INC.

Address:1754 GREEN ROAD

Box:317

City:BUFORD

State:GA

ZIP:30518

Country:US

Info Phone Num:404-945-7139/800-827-9790

Emergency Phone Num:800-441-3637/800-4

24-9300(CHEMTREC)

CAGE:40161

=== Contractor Identification ===

Company Name:FUEL QUALITY SERVICES, INC.

Address:4584 CANTRELL ROAD

Box:1380

City:FLOWERY BRANCH

State:GA

ZIP:30542

Country:US

Phone:(800) 827-9790 - (770) 967-9790

CAGE:40161

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

Ingred Name:ALIPHATIC PETROLEUM SOLVENT/KEROSENE

CAS:8008-20-6

RTECS #:OA5500000

Fraction by Wt: 50 - 58%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:5 MG/M3 AS OIL MIST

ACGIH TLV:5 MG/M3 AS

OIL MIST

Ingred Name:TRADE SECRET COMPONENT/NJ TRADE SECRET # 00850201001-5029 P

Fraction by Wt: 8- 12.6%

Other REC Limits:NONE RECOMMENDED

Ingred Name:STYRENE MONOMER (SARA 313)

CAS:100-42-5

RTECS #:WL3675000

Fraction by Wt: 0- 0.84%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:100 PPM

ACGIH TLV:S,50PPM/100STEL;9596

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:N,N-DIMETHYLCYCLOHEXYLAMINE

CAS:98-94-2

RTECS #:GX1198000

Fraction by Wt: 10-14.7%

Other REC Limits:NONE RECOMMENDED

Ingred N

ame:N,N'DISALYCYLIDENE-1,2 PROPANE DIAMINE

CAS:94-91-7

RTECS #:GP3130000

Fraction by Wt: 0.8-2.1%

Other REC Limits:NONE RECOMMENDED

Ingred Name:XYLENES (O-,M-,P- ISOMERS) (SARA 313) (CERCLA)

CAS:1330-20-7

RTECS #:ZE2100000

Fraction by Wt: 0.2-0.6%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:100 PPM

ACGIH TLV:100 PPM/150STEL;9596

EPA Rpt Qty:1000 LBS

DOT Rpt Qty:1000 LBS

Ingred Name:ETHYL BENZENE (SARA 313)

CAS:100-41-4

RTECS #:DA0700000

Fraction by Wt: 0-0.084%

Other REC Limits:NONE RECOMMENDED

OSHA PEL:100 PPM
ACGIH TLV:100 PPM/125STEL;9596
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:3,5-XYLENOL/MIXED CRESOLS AND XYLENOLS
CAS:108-68-9
RTECS #:ZE6475000
Fraction by Wt: 0.0-0.2%
Other REC Limits:NONE RECOMMENDED

Ingred Name:TRADE SECRET COMPONENT/NJ TRADE SECRET REGISTRY #
00850201001-5030 P
Fraction by Wt: 4.2-8.4%
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:LD50 (ORAL, RAT) 12,700 MG/KG (KE
ROSENE)

Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO

Health Hazards Acute and Chronic:TARGET ORGANS:LIVER, KIDNEY, CNS,
LUNG, BLOOD, HEART. ACUTE- CORROSIVE TO EYE & SKIN. INHALATION MAY
HAVE EFFECTS ON HEART, CNS, BLOOD, LIVER, KIDNEY, SPLEEN, BONE
MARROW. INGESTION MAY CAUSE GI BLEED ING, CNS DEPRESSION, VOMITING.
ASPIRATION HAZARD. CHRONIC- MAY CAUSE ALLERGIC SKIN REACTION.

Explanation of Carcinogenicity:CONTAI
NS STYRENE. MOUSE SKIN PAINTING

STUDIES INDICATE THAT PETROLEUM MIDDLE DISTILLATE SUCH AS KEROSENE
CAUSES CANCER.

Effects of Overexposure:IRRITATION, HEADACHE, DIZZINESS, NAUSEA,
VOMITING, DROWSINESS, BLURRED VISION, PAIN, BURNS, COUGHING,
WHEEZING, SHORTNESS OF BREATH, COLLAPSE, UNCONSCIOUSNESS, BLEEDING

Medical Cond Aggravated by Exposure:INDIVIDUALS WITH PRE-EXISTING
DISEASES OF THE EYE, SKIN, RESPIRATORY TRACT, LIVER, KIDNEYS, BONE
MARROW, BLOOD CELLS, CNS MAY HAVE IN
CREASED SUSCEPTIBILITY TO THE
TOXICITY OF EXCESSIVE EXPOSURES.

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

First Aid:GET MEDICAL HELP IF SYMPTOMS PERSIST. INHALED:REMOVE TO FRESH
AIR. PROVIDE CPR/OXYGEN IF NEEDED. EYES/SKIN:FLUSH WITH WATER FOR
15 MINUTES. HOLD EYELIDS OPEN. ORAL:DO NOT INDUCE VOMITING. CALL
PHYSICI AN OR POISON CONTROL CENTER IMMEDIATELY. IF CONSCIOUS,
DRINK 2 GLASSES OF WATER. NEVER GIVE ANYTIHING BY MOUTH TO AN
UNCONSCIOUS PE

PERSON. NOTE TO PHYSICIAN: ACTIVATED CHARCOAL MIXTURE
MAY BE USEFUL.

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

Flash Point Method:PMCC

Flash Point:109F,43C

Extinguishing Media:USE WATER SPRAY, CARBON DIOXIDE (CO2), FOAM OR DRY
CHEMICAL. USE WATER SPRAY TO COOL FIRE EXPOSED CONTAINERS.

Fire Fighting Procedures:WEAR PROTECTIVE CLOTHING AND NIOSH-APPROVED
SELF-CONTAINED BREATHING APPARATUS.

Unusual Fire/Explosion Hazard:FLAMMABLE. VAPOR CAN TRAVEL CONSIDERABLE

DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. CONTAINERS MAY
RUPTURE.

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

Spill Release Procedures:WEAR PROTECTIVE EQUIPMENT. ELIMINATE SOURCES
OF IGNITION. VENTILATE AREA. SOAK UP SPILL WITH SAWDUST, SAND,
EARTH, VERMICULITE. TRANSFER TO CONTAINER. PREVENT LIQUID FROM
ENTERING SEWERS. REPORT A RELEASE OF 100 LBS OR MORE TO
AUTHORITIES.

Neutralizing Agent:NOT RELEVANT

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

Handling and Storage Precautions:STORE IN COOL, DRY, VENTILATED AREA,
AWAY FROM IGNITION SOURCES & INCOMPATIBLES. KEEP CONTAINER TIGHTLY
CLOSED.

Other Precautions:EMPTY CONTAINERS RETAIN RESIDUE AND CAN BE DANGEROUS.
DO NOT WELD, SOLDER OR DRILL SUCH CONTAINERS. KEEP OUT OF REACH OF
CHILDREN. DO NOT INGEST. DO NOT GET IN EYES OR ON SKIN. DO NOT
BREATHE VAPORS. WASH THOROUGHLY AFTER HANDLING.

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

Respiratory Protection:IF TLV IS EXCEEDED OR FOR SYMPTOMS OF OVER
EXPOSURE, WEAR NIOSH-APPROVED ORGANIC VAPOR RESPIRATOR OR
AIR-PURIFYING RESPIRATOR. IN EMERGENCY, WEAR A NIOSH-APPROVED
POSITIVE-PRESSURE SELF-CONTAINED BREATHING APPARATUS.

Ventilation:MECHANICAL (GENERAL AND/OR LOCAL EXHAUST, EXPLOSION-PROOF)
VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

Protective Gloves:RUBBER/LATEX

Eye Protection:SAFETY GLASSES/CHEMICAL SPLASH GOGGLES

Other Protective E

equipment:SAFETY SHOWER AND EYE WASH FOUNTAIN SHOULD BE LOCATED NEARBY. WEAR APPROPRIATE PROTECTIVE CLOTHING FOR RISK OF EXPOSURE.

Work Hygienic Practices:OBSERVE GOOD INDUSTRIAL HYGIENE PRACTICES AND RECOMMENDED PROCEDURES. WASH THOROUGHLY BEFORE EATING OR DRINKING.

Supplemental Safety and Health

FORMULA AND/OR PERCENTAGES CHANGED. FOR PREVIOUS FORMULATIONS/CONCENTRATIONS, SEE PNI A OR B, SAME NSN.

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

HCC:F6

NRC/

State Lic Num:NOT RELEVANT

Boiling Pt:B.P. Text:351F,177C

Spec Gravity:0.90

Solubility in Water:IMMISCIBLE

Appearance and Odor:AMBER LIQUID - AMINES ODOR

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

Stability Indicator/Materials to Avoid:YES

NONE REASONABLY FORESEEABLE.

Stability Condition to Avoid:HIGH HEAT, SPARKS, FLAME, OTHER SOURCES OF IGNITION

Hazardous Decomposition Products:CARBON MONOXIDE, CARBON DIOXIDE, OXIDES OF NITROGEN AND OTHER DECOMPOSITION PRODUCTS MAY BE FORMED.

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

Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS. RECYCLING OR REUSING IS RECOMMENDED.

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