

General Information

Item Name: RONSONOL LIGHTER FLUID

Company's Name: SHELL OIL CO

Company's Info Ph #: 800 832-3766

Date MSDS Prepared: 21JUN91

Safety Data Review Date: 12JAN94

Ingredients/Identity Information

Proprietary: NO

Ingredient: LIGHT ALIPHATIC NAPHTHA, VM & P NAPHTHA, LACOLENE *93/4*

Ingredient Sequence Number: 01

Percent: 95

NIOSH (RTECS) Number: 1002250AN

CAS Number: 64742-89-8

OSHA PEL: 300 PPM

ACGIH TLV: 300 PPM

Proprietary: NO

Ingredient: MEDIUM ALIPHATIC NAPHTHA (AROMATIC 100), PARAFFIN-NAPHTHANES
MINERAL SPIRITS *93-4*

Ingredient Sequence Number: 02

Percent: 5

NIOSH (RTECS) Number: 1003692SN

CAS Number: 64742-88-7

OSHA PEL: 500 PPM

ACGIH TLV: 100 PPM

Other Recommended Limit: 100 PPM

Proprietary: NO

Ingredient: BENZENE (HUMAN CARCINOGEN BY ACGIH, IARC, OSHA, NTP) INTENDED
CHANGE = IC

Ingredient Sequence Number: 03

Percent: <30 PPM

NIOSH (RTECS) Number: CY1400000

CAS Number: 71-43-2

ACGIH TLV: 0.3 MG/CUM (A2) IC

Other Recommended Limit: 16 MG/CUM

Physical/Chemical Characteristics

Appearance And Odor: COLORLESS LIQUID W/HYDROCARBON ODOR.

Boiling Point: 224-311 F

Vapor Pressure (MM Hg/70 F): 47

Specific Gravity: 0.74

Evaporation Rate And Ref: (BU AC = 1): 2.4

Solubility In Water: NEGLIGIBLE

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Fire and Explosion Hazard Data
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Flash Point: 42F

Flash Point Method: TCC

Lower Explosive Limit: 1.0

Upper Explosive Limit: 7.0

Extinguishing Media: WATER FOG/DRY CHEMICAL/CO2 DON'T USE A DIRECT STREAM OF WATER. PRODUCT WILL FLOAT & CAN BE REIGNITED ON SURFACE OF WATER Special Fire Fighting Proc: DON'T ENTER CONFINED FIRE SPACE WITHOUT SCBA & FULL BUNKER GEAR. INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SCBA. COOL FIRE EXPOSED CONTAINERS W/WATER.

Unusual Fire And Expl Hazrds: CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED W/WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE.

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Reactivity Data
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Stability: YES

Materials To Avoid: HEAT, SPARKS, FLAME & CONTACT W/STRONG OXIDIZING AGENTS.

Hazardous Decomp Products: CARBON MONOXIDS & UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

Hazardous Poly Occur: NO

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Health Hazard Data
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LD50-LC50 Mixture: ORAL LD50: (RAT) >8

Route Of Entry - Inhalation: YES

Route Of Entry - Skin: YES

Route Of Entry - Ingestion: YES

Health Haz Acute And Chronic: EYES: IRRITATION. SKIN: MILDLY IRRITATION, DEFATTING, DERMATITIS. INHALATION: IRRITATION TO NOSE, THROAT, RESPIRATORY TRACT; HIGH VAPOR CONCENTRATIONS MAY PRODUCE CNS DEPRESSION, DEATH MAY OCCUR.

INGESTION: ASPIRATION PNEUMONITIS, DEATH MAY OCCUR.

Carcinogenicity - NTP: YES

Carcinogenicity - IARC: YES

Carcinogenicity - OSHA: YES

Explanation Carcinogenicity: SEE INGREDIENTS

Signs/Symptoms Of Overexp: INGESTION: VOMITING. ASPIRATION: COUGHING, LABORED BREATHING, CYANOSIS, UNCONSCIOUSNESS. INHALATION: HEADACHE, DIZZINESS, NAUSEA.

Med Cond Aggravated By Exp: PREEXISTING EYE, SKIN, & RESPIRATORY DISORDERS.

Emergency/First Aid Proc: EYES: FLUSH W/PLENTY OF WATER FOR 15 MINUTES, WHILE HOLDING EYELIDS OPEN. SKIN: FLUSH W/WATER. FOLLOW BY WASHING W/SOAP & WATER, IF IRRITATION OCCURS. INHALATION: REMOVE VICTIM TO FRESH AIR & PROVIDE OXYGEN IF BREATHING IS DIFFICULT, GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. INGESTION: DO NOT INDUCE VOMITING. IF VOMITING OCCURS SPONTANEOUSLY. SEE SUPP.

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Precautions for Safe Handling and Use

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Steps If Matl Released/Spill: HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING. SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE & CONTAIN. IF VAPORS CLOUD FORMS, WATER FOG MAY BE USED TO SUPPRESS, CONTAIN RUN-OFF. REMOVE W/VACUUM TRUCKS/PUMP TO STORAGE/SALVAGE VESSELS.

Waste Disposal Method: DISPOSE OF IN ACCORDANCE W/LOCAL, STATE, & FEDERAL REGULATIONS.

Precautions-Handling/Storing: KEEP LIQUID/VAPOR AWAY FROM HEAT/SPARKS/ FLAME. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE EVEN LIQUID PRODUCT IN THE ABSENCE OF SPARKS/FLAME.

Other Precautions: EXTINGUISH PILOT LIGHT/CIGARETTES & TURN OFF OTHER SOURCES OF IGNITION PRIOR TO USE & UNTIL ALL VAPORS ARE GONE. VAPORS MAY KEEP CONTAINERS CLOSED WHEN NOT IN USE.

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Control Measures

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Respiratory Protection: NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD W/29 CFR 1910.134 USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

Ventilation: RECOMMENDED

Protective Gloves: CHEMICAL-RESISTANT

Eye Protection: SAFETY GLASSES/GOGGLES

Other Protective Equipment: CLOTHING AS REQUIRED TO MINIMIZE CONTACT.

Work Hygienic Practices: REMOVE CONTAMINATED CLOTHING/SHOES. DON'T REUSE CLOTHING UNTIL CLEANED.

Suppl. Safety & Health Data: FIRST AID CONT: KEEP HEAD BELOW HIPS TO PREVENT ASPIRATION OF LIQUID INTO THE LUNGS. OBTAIN MEDICAL ATTENTION IN ALL CASES.

SPILL CONT: SOAK UP RESIDUE W/AN ABSORBENT SUCH AS CLAY/SAND/ OTHER SUITABLE MATERIAL. PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL. FLUSH AREA W/WATER TO REMOVE TRACE RESIDUE.

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