

MATERIAL SAFETY DATA SHEET
ALR 105 MINERAL SPIRITS
ADVANCED LIQUID RECYCLING, INC.

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General Information
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Company's Name: ADVANCED LIQUID RECYCLING, INC.
Company's Street: 14 WEST MAIN STREET
Company's City: MERIDEN
Company's State: CT
Company's Country: US
Company's Zip Code: 06451
Company's Emergency Phone #: (203) 238-6771
Company's Phone #: (203) 238-6771
Date MSDS Prepared: 7/15/03
Safety Data Review Date: 7/15/03
Hazard Ratings: HEALTH 0 FIRE 2 REACTIVITY 0

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Ingredients/Identity Information
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Proprietary: NO
Ingredient: STODDARD SOLVENT
Ingredient Sequence Number: 01
Percent: 96.5 - 100
CAS Number: 8052-41-3
OSHA PEL: 500 ppm
ACGIH TLV-TWA: 100 ppm
NIOSH TWA: 350 ppm

Proprietary: NO
Ingredient: 1,2,4-TRIMETHYLBENZENE (SARA III)
Ingredient Sequence Number: 02
Percent: 0 - 3.5
CAS Number: 95-63-6
OSHA PEL: 25 ppm
ACGIH TLV-TWA: 25 ppm
NIOSH TWA: UNKNOWN

Proprietary: NO
Ingredient: TETRACHLOROETHYLENE (SARA III)
Ingredient Sequence Number: 03
Percent: <0.5
CAS Number: 127-18-4

OSHA PEL: 100 ppm
ACGIH TLV-TWA: 50 ppm
NIOSH TWA: UNKNOWN

Physical/Chemical Characteristics

Appearance And Odor: CLEAR COLORLESS LIQUID; PETROLEUM-LIKE ODOR
Boiling Point: 315 - 398° F
Vapor Pressure: 2.0 mmHg @ 68° F
Vapor Density (Air=1): 4.9
Specific Gravity: 0.787 @ 60° F
Liquid Density: 6.56 lb./gal @ 60° F
Evaporation Rate: 0.12 (BUTYL ACETATE)
Solubility In Water: NEGLIGIBLE
Percent Volatiles by Volume: 100
pH: UNKNOWN

Fire and Explosion Hazard Data

Flash Point: 105° F
Flash Point Method: TCC
Lower Explosive Limit: 1.0
Upper Explosive Limit: 6.0
Autoignition Temperature: 535° F
Extinguishing Media: USE CARBON DIOXIDE, FOAM, OR DRY CHEMICAL. WATER SPRAY MAY BE USED TO KEEP FIRE EXPOSED CONTAINERS COOL.
Special Fire Fighting Procedures: WEAR PPE AND NIOSH-APPROVED SCBA WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE AND APPROPRIATE TURN-OUT GEAR.
Unusual Fire And Explosion Hazards: VAPOR IS HEAVIER THAN AIR AND CAN TRAVEL CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION AND FLASH BACK. CONTAINERS MAY RUPTURE DUE TO VAPOR PRESSURE BUILDUP.

Reactivity Data

Stable: YES
Conditions To Avoid (Stability): HEAT, OPEN FLAMES
Materials To Avoid: STRONG OXIDIZING AGENTS
Hazardous Decomposition Products: CO, CO₂, VARIOUS HYDROCARBONS
Hazardous Polymerization Occur: NO

Health Hazard Data

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 Route Of Entry - Inhalation: BREATHING OF VAPOR OR MIST IS POSSIBLE. BREATHING SMALL AMOUNTS DURING NORMAL HANDLING IS NOT LIKELY TO CAUSE HARMFUL EFFECTS. BREATHING LARGE AMOUNTS MAY BE HARMFUL. SYMPTOMS USUALLY OCCUR AT CONCENTRATIONS HIGHER THAN THE RECOMMENDED EXPOSURE LIMITS.

Route Of Entry - Skin/Eyes: MAY CAUSE MILD SKIN IRRITATION. PROLONGED OR REPEATED CONTACT MAY CAUSE DRYING. SYMPTOMS MAY INCLUDE REDNESS, BURNING, DRYING, AND CRACKING OF SKIN. MAY CAUSE MILD EYE IRRITATION. SYMPTOMS INCLUDE STINGING, TEARING, AND REDNESS.

Route Of Entry - Ingestion: SWALLOWING SMALL AMOUNTS OF MATERIAL IS NOT LIKELY TO CAUSE HARMFUL EFFECTS. SWALLOWING LARGE AMOUNTS MAY BE HARMFUL. IF MATERIAL GETS INTO THE LUNGS, INFLAMMATION OR OTHER LUNG INJURUES MAY DEVELOP.

Carcinogenicity - NONE

Signs and Symptoms of Overexposure: STOMACH OR INTESTINAL UPSET, IRRITATION OF NOSE, THROAT, OR AIRWAYS, DIZZINESS, DROWSINESS, WEAKNESS, FATIGUE, NAUSEA, HEADACHE, OR UNCONSCIOUSNESS.

Emergency/First Aid Procedures:

Inhalation: IMMEDIATELY MOVE TO FRESH AIR. SEEK MEDICAL ATTENTION. IF PERSON IS NOT BREATHING, BEGIN ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN.

Skin: REMOVE CONTAMINATED CLOTHING. WASH EXPOSED AREA WITH SOAP AND WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. LAUNDRER CLOTHES BEFORE REUSE.

Eyes: MOVE INDIVIDUAL TO FRESH AIR. FLUSH EYES WITH WATER. SEEK MEDICAL ATTENTION IF SYMPTOMS PERSIST.

Ingestion: SEEK MEDICAL ATTENTION. IF PERSON IS DROWSY OR UNCONSCIOUS, DO NOT GIVE ANYTHING BY MOUTH. PLACE PERSON ON THEIR LEFT SIDE WITH THE HEAD DOWN. CONTACT PHYSICIAN OR POISON CONTROL CENTER FOR ADVICE ON WHETHER TO INDUCE VOMITING.

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Precautions for Safe Handling and Use
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Steps If Material is Released or Spilled: IF SPILL IS SMALL, ABSORB LIQUID WITH PROPER ABSORBENT. IF SPILL IS LARGE, ELIMINATE ALL IGNITION SOURCES. STOP SPILL AT THE SOURCE. PREVENT SPILL FROM ENTERING THE ENVIRONMENT OR SPREADING. PUMP OR VACUUM PRODUCT TO CLEAN

CONTAINERS FOR RECOVERY. ABSORB UNRECOVERABLE PRODUCT. NOTIFY PROPER AUTHORITIES IF SPILL REACHES THE ENVIRONMENT.

Waste Disposal Method: DISPOSE OF MATERIAL IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

Precautions-Handling/Storing: EMPTY CONTAINERS ARE HAZARDOUS AND CONTAIN RESIDUE. OBSERVE HAZARD PRECAUTIONS. 5 GALLON PAILS OR LARGER CONTAINERS SHOULD BE GROUNDED/BONDED WHEN TRANSFERRED.

Other Precautions: HYDROCARBON SOLVENTS CAN BECOME ELECTROSTATICALLY CHARGED DURING MIXING, FILTERING, OR PUMPING AT HIGH FLOW RATES. SPARKS CAN FORM THAT MAY IGNITE THE VAPORS OF FLAMMABLE LIQUIDS. ANY USE OF THIS PRODUCT AT ELVEVATED PROCESS TEMPERATURES SHOULD BE EVALUATED.

Control Measures

Respiratory Protection: NIOSH/MSHA AIR SUPPLIED RESPIRATORS ARE RECOMMENDED UNDER CONDITIONS WHERE EXPOSURE LIMITS MAY BE EXCEEDED. ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

Ventilation: MECHANICAL (GENERAL OR LOCAL EXHAUST) VENTILATION TO MAINTAIN LEVELS BELOW EXPOSURE LIMITS.

Protective Gloves: CHEMICAL RESISTANT GLOVES.

Eye Protection: CHEM SPLASH GOGGLES OR GLASSES.

Other Protective Equipment: IMPERVIOUS CLOTHES, BOOTS, ETC. EMERGENCY EYEWASH AND SHOWER SHOULD BE NEARBY.

Label Data

Label Required: YES

Common Name: ALR 105 MINERAL SPIRITS

DOT Proper Shipping Name: Petroleum Distillates, n.o.s., Combustible Liquid, UN1268, PG III

Special Hazard Precautions: IRRITATING TO EYES AND SKIN; GI IRRITATION IF INGESTED; HARMFUL TO RESPIRATORY SYSTEM IF INHALED AT LEVELS EXCEEDING RECOMMENDED EXPOSURE LIMITS.

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Disclaimer
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The above information is, to the best of our knowledge, current, accurate, and complete based on information reasonably available to us as of the date of the preparation of this form. However, it is the user's responsibility to determine the safety, toxicity, and suitability for his or her own use of the product described herein. Since the actual use by others is beyond our control, no guarantees, expressed or implied, are made by us as to the effects of such use or on the safety or toxicity of this product. Nor do we assume any liability arising out of use by others of this product. Nor is the information herein to be construed as absolutely complete, since additional information may be necessary or desirable when exceptional conditions or circumstances exist or because of applicable laws or regulations.