

RANBAR ELECTRICAL MATERIALS INC -- ISONEL 31 -- 6115-01-187-3692

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

Product ID:ISONEL 31  
MSDS Date:07/26/1999  
FSC:6115  
NIIN:01-187-3692  
Status Code:A  
MSDS Number: CKMJS  
=== Responsible Party ===  
Company Name:RANBAR ELECTRICAL MATERIALS INC  
Address:RT 993  
City:MANOR  
State:PA  
ZIP:15665  
Country:US  
Info Phone Num:724-864-8200  
Emergency Phone Num:724-864-8200  
Chemtec In  
d/Phone:(800)424-9300  
CAGE:1PP28  
=== Contractor Identification ===  
Company Name:ELMAGCO INC  
Address:500 INDUSTRIAL RD  
Box:City:SUGAR LAND  
State:TX  
ZIP:77478  
Country:US  
Phone:281-240-6111  
Contract Num:SP0430 -99-M-CN70  
CAGE:52142  
Company Name:RANBAR ELECTRICAL MATERIALS INC  
Address:RT 993  
Box:607  
City:MANOR  
State:PA  
ZIP:15665  
Country:US  
Phone:724-864-8200  
CAGE:1PP28

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

Ingred Name:XYLENE  
CAS:1330-20-7  
RTECS #:ZE2100000  
Minumum %

Wt:20.  
Maxumum % Wt:30.  
OSHA PEL:TWA 100 PPM  
ACGIH TLV:434 MG/M3;100 PPM  
ACGIH STEL:651 MG/M3;150 PPM  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:MINERAL SPIRITS  
CAS:64742-88-7  
Minumum % Wt:20.  
Maxumum % Wt:30.  
OSHA PEL:500 PPM TWA  
ACGIH TLV:100 PPM TWA

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

LD50 LC50 Mixture:4300 MG/KG (RAT) XYLENES  
Health Hazards Acute and Chronic:ACUTE: HAZARDOUS IN CASE OF SKIN  
CONTACT (IRRITANT), OF INHALATION. SLIGHTLY DANGERO  
US TO DANGEROUS  
IN CASE OF EYE CONTACT (IRRITANT), OF INGESTION. CHRONIC: TARGET  
ORGANS DAMAGE. TARGET ORGANS:THE S UBSTANCE IS TOXIC TO BLOOD,  
KIDNEYS, THE NERVOUS SYSTEM, LIVER AND MUCOUS MEMBRANES.  
Explanation of Carcinogenicity:NOT AVAILABLE  
Effects of Overexposure:SKIN/EYE/INHALATION/INGESTION: IRRITATION.  
TARGET ORGANS:SUBSTANCE IS TOXIC TO BLOOD, KIDNEYS, LUNGS, NERVOUS  
SYSTEM, LIVER AND MUCUS MEMBRANES.  
Medical Cond Aggravated by Exposure: REPEATED OR PROLONGED EXPO  
SURE TO  
THE SUBSTANCE CAN PRODUCE TARGET ORGANS DAMAGE.

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

First Aid:EYE CONTACT: IMMEDIATELY FLUSH EYES WITH RUNNING WATER FOR AT  
LEAST 15 MINUTES, KEEPING EYELIDS OPEN. COLD WATER MAY BE USED.  
SKIN: AFTER CONTACT WITH SKIN, WASH IMMEDIATELY WITH PLENTY OF  
WATER. GE NTLY AND THOROUGHLY WASH THE CONTAMINATED SKIN WITH  
RUNNING WATER AND NON-ABRASIVE SOAP. BE PARTICULARLY CAREFUL TO  
CLEAN FOLDS, CREVICES

, CREASES AND GROIN. COVER THE IRRITATED SKIN WITH AN EMOLLIA NT. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION. WASH CONTAMINATED CLOTHING BEFORE REUSING. INHALATION: ALLOW THE VICTIM TO REST IN A WELL VENTILATED AREA. SEEK IMMEDIATE MEDICAL ATTENTION.

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

Flash Point Method:CC

Flash Point:=26.7C, 80.1F

Autoignition Temp:=464.C, 867.2F

Lower Limits:1%

Upper Limits:7%

Extinguishing Media:FLAMMABLE LIQUID, SOLUBLE OR DISPERSED IN WATER.

SMALL FIRE: USE DRY CHEMICALS, CO2, ALCOHOL FOAM OR WATER SPRAY.

LARGE FIRE: USE ALCOHOL FOAM, WATER SPRAY OR FOG.

Fire Fighting Procedures:HIGHLY FLAMMABLE IN PRESENCE OF REDUCING MATERIALS. SLIGHTLY FLAMMABLE TO FLAMMABLE IN PRESENCE OF OPEN FLAMES AND SPARKS OF HEAT. COOL CONTAINERS WITH WATER SPRAY. FIREFIGHTERS SHOULD WEAR FULL PROTECTIVE EQUIPMENT.

Unusual Fire/Explosion Hazard:VAPOR MAY TRAVEL CONSIDERABLE DISTANCE TO SOURCE OF IGNITION AND FLASH BACK (XYLENES)

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

Spill Release Procedures:SMALL SPILL: ABSORB WITH AN INERT MATERIAL AND PUT THE SPILLED MATERIAL IN AN APPROPRIATE WASTE DISPOSAL. LARGE SPILL: FLAMMABLE LIQUID. ELIMINATE SOURCES OF IGNITION. STOP LEAK IF WITHOUT RISK. ABSORB WITH DRY EARTH, SAND OR OTHER NON-COMBUSTIBLE MATERIAL. DO NOT TOUCH SPILLED MATERIAL. PREVENT ENTRY INTO SEWERS, BASEMENTS OR CONFINED AREAS: DIKE IF NEEDED.

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

Handling and Storage Precautions:FLAMMABLE MATERIALS SHOULD BE STORED IN A SEPARATE SAFELY STORAGE CABINET OR ROOM. KEEP AWAY FROM HEAT AND SOURCES OF IGNITION. KEEP CONTAINER TIGHTLY CLOSED. KEEP IN A COOL WELL-VENTILATED PLACE. GROUND ALL EQUIPMENT CONTAINING MATERIAL. A REFRIGERATED ROOM WOULD BE PREFERABLE.

Other Precautions:KEEP AWAY FROM HEAT. KEEP AWAY FROM SOURCES OF IGNITION. GROUND ALL EQU

IPMENT CONTAINING MATERIAL. DO NOT INGEST.

DO NOT BREATHE GAS, FUMES, VAPOR OR SPRAY. AVOID CONTACT WITH SKIN.  
IN CASE OF INSUFFICIENT VENTILATION, WEAR SUITABLE RESPIRATORY  
EQUIPMENT.

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

Respiratory Protection:VAPOR RESPIRATOR.WHEN THE CONCENTRATION LEVEL IS  
ABOVE TLV/PEL, BE SURE TO USE A MSHA/NIOSH APPROVED RESPIRATOR OR  
EQUIVALENT. WEAR APPROPRIATE RESPIRATOR WHEN VENTILATION IS  
INADEQUATE.

Ventilatio

n:PROVIDE EXHAUST VENTILATION OR OTHER ENGINEERING CONTROLS  
TO KEEP THE AIRBORNE CONCENTRATIONS OF VAPORS BELOW THEIR  
RESPECTIVE THRESHOLD LIMIT VALUE.

Protective Gloves:PVA OR NEOPRENE GLOVES

Eye Protection:SAFETY GLASSES, SPLASH GOGGLES.

Other Protective Equipment:ENSURE THAT EYEWASH STATION AND SAFETY  
SHOWER IS PROXIMAL TO THE WORK-STATION LOCATION. FULL SUIT, BOOTS.

Supplemental Safety and Health

LARGE SPILL: PROTECTIVE CLOTHING MIGHT NOT BE SUFFICIENT: CONSULT  
SPECIALIST BEF

ORE HANDLING THIS PRODUCT. THIS ITEM IS A PART 3 OF A  
THREE PART KIT. SEE MFN 1 AND 2 FOR OTHER PARTS, SAME NSN.

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

HCC:F3

Boiling Pt:=138.5C, 281.3F

Vapor Pres:6MM OF HG@20C

Vapor Density:5.3 (AIR=1)

Spec Gravity:.92 (WATER=1)

Evaporation Rate & Reference:.07

Appearance and Odor:LIQUID AMBER, HYDROCARBON ODOR.

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

Stability Indicator/Materials to Avoid:YES

HIGHLY REACTIVE WITH OXIDIZING AGENTS. REACTIVE WITH REDUCING AGENTS,  
ORGANIC MATERIALS, METALS, ALKALIS. SLIGHTLY REACTIVE TO REACTIVE  
WITH ACIDS. NON-REACTIVE WITH MOISTURE.

Hazardous Decomposition Products:OXIDES OF CARBON.

===== Toxicological Information =====

Toxicological Information:LC50 (ESTIMATED VALUES)5091 PPM 4 HRS RAT  
(MINERAL SPIRIT). ACUTE ORAL TOXICITY (LD50, RAT)= 4300 MG/KG  
(XYLENE). ACUTE DERMAL TOXICITY (LD50, RAT) = 4000 MG/KG

(MINERAL  
SPIRIT).

===== Ecological Information =====

Ecological:NO DATA AVAILABLE.

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

Waste Disposal Methods:RECYCLE TO PROCESS, IF POSSIBLE. CONSULT YOUR  
LOCAL OR REGIONAL AUTHORITIES.

===== MSDS Transport Information =====

Transport Information:RESIN SOLUTION, 3, UN1865, III.

===== Regulatory Information =====

SARA Ti

tle III Information:SARA 313 TOXIC CHEMICAL NOTIFICATION AND  
RELEASE REPORTING: XYLENES.

Federal Regulatory Information:COMPONENTS ON THE TSCA INVENTORY: XYLENES  
AND MINERAL SPIRITS.

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