AP140, AP200, AP220, AP250, AP300, AP415, AP431

SILICON RESOURCES, INC.

211 E. CHILTON DRIVE

CHANDLER, AZ 85225

REVISED: 11/07/00

PREPARER: W.R. PETERSON

PRODUCT IDENTIFICATION

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CHEMICAL NAME: ORGANOSILICON COMPOUND IN ISOPROPANOL

FORMULA: MIXTURE

PRODUCT COMPONENTS

<table>
<thead>
<tr>
<th>PRODUCT COMPOSITION</th>
<th>APPROX.%</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
<th>UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>PROPRIETARY ORGANOSILANE</td>
<td>&lt;2</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>ISOPROPYL ALCOHOL</td>
<td>&gt;98</td>
<td>NA</td>
<td>400</td>
<td>ppm</td>
</tr>
</tbody>
</table>

FORMULATION INFORMATION:

THIS PRODUCT CONTAINS TOXIC CHEMICAL(S) LISTED BELOW WHICH IS (ARE) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372.

NONE

PHYSICAL DATA

PRODUCT INFORMATION

BOILING POINT: ~82°C

VAPOUR PRESSURE (20°C): 33 mm Hg

VAPOUR DENSITY (AIR=1): 2.07

FREEZING POINT: NA

% VOLATILE BY VOLUME: >90

EVAPORATION RATE: >2.83

SPECIFIC GRAVITY: ~0.78
MELTING POINT: -89EC

PHYSICAL STATE: LIQUID

ODOR: SLIGHT

COLOR: CLEAR

SOLUBILITY IN WATER: SOLUBLE

MATERIAL SAFETY DATA SHEET

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IV FIRE AND EXPLOSION DATA

FLASH POINT: 12EC (53EF)

FLAMMABLE LIMITS IN AIR (%): LOWER 2.0 UPPER 12.0

EXTINGUISHING MEDIA: STANDARD FIREFIGHTING MEDIA

SPECIAL FIREFIGHTING PROCEDURES: WEAR RESPIRATORY PROTECTION IF IN A CONFINED AREA

V REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE, CARBON DIOXIDE, SILICON DIOXIDE

INCOMPATIBILITY (MATERIALS TO AVOID): OXIDIZING AGENTS,
WATER, ACIDS, AMINES, ALCOHOLS

CONDITIONS TO AVOID: HEAT, SPARKS, OTHER SOURCES OF IGNITION

VI HEALTH HAZARD DATA

ACUTE SIGNS/EFFECTS OF OVEREXPOSURE:

INGESTION: MODERATELY TOXIC

SKIN CONTACT: MAY CAUSE IRRITATION

INHALATION: MAY BE HARMFUL IF INHALED. HIGH CONCENTRATION HAS NARCOTIC EFFECT

EYE CONTACT: CAUSES EYE IRRITATION

MEDICAL CONDITIONS AGGRAVATED:

PERSONS WITH PRE-EXISTING SKIN DISORDERS, EYE PROBLEMS OR IMPAIRED RESPIRATORY FUNCTION MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS SUBSTANCE

CHRONIC EFFECTS OF OVEREXPOSURE:

PROLONGED SKIN CONTACT MAY CAUSE MILD IRRITATION, DRYING, CRACKING OR CONTACT DERMATITIS

OTHER: NA
EMERGENCY AND FIRST AID PROCEDURES:

INGESTION:

IF SWALLOWED DO NOT INDUCE VOMITING; NEVER GIVE ANYTHING TO AN UNCONSCIOUS PERSON. GET MEDICAL ATTENTION.

SKIN:

IN CASE OF CONTACT, IMMEDIATELY FLUSH SKIN WITH PLENTY OF SOAP AND WATER FOR AT LEAST 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE REUSE.

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INHALATION:

IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING GIVE ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING IS DIFFICULT GIVE OXYGEN. GET MEDICAL ATTENTION.

EYES:

IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

PRODUCT INFORMATION

TOXICITY: ISOPROPYL ALCOHOL

ORAL RAT LD50: 5840mg/Kg

DERMAL-RBT LD50: 13g/Kg

INHALATION-RAT LC50: 16000ppm/8HRS

IPR-MUS LD50: UNKN

AMES TEST: UNKN

PRINCIPAL ROUTES OF EXPOSURE:

ORAL

DERMAL-SKIN

EYES

INHALATION

VII SPECIAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: USE IN A WELL VENTILATED AREA. USE APPROVED NIOSH RESPIRATORY PROTECTION.

PROTECTIVE GLOVES: RUBBER GLOVES

EYE AND FACE PROTECTION: SAFETY GLASSES; MONOGOGGLES

OTHER PROTECTIVE EQUIPMENT: WEAR EYE PROTECTION AND PROTECTIVE CLOTHING.
VENTILATION: USE ONLY IN WELL VENTILATED AREA

VIII SPILL, LEAK AND DISPOSAL PROCEDURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
WIPE, SOAK UP IN AN INERT MATERIAL, SCRAPE UP AND PUT IN A CONTAINER FOR DISPOSAL. WEAR PROPER PROTECTIVE EQUIPMENT AS SPECIFIED IN THE PROTECTIVE EQUIPMENT SECTION. WARN OTHER WORKERS OF SPILL.

DISPOSAL METHOD:
DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. INCINERATION RECOMMENDED.

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IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:
STORE UPRIGHT IN A COOL PLACE BELOW 30EC (85EF) KEEP CONTAINER CLOSED WHEN NOT IN USE. AVOID BREATHING VAPORS. AVOID CONTACT WITH SKIN AND EYES. USE ONLY IN A WELL VENTILATED AREA. DO NOT INHALE VAPORS.

ENGINEERING CONTROLS:
EXHAUST VENTILATION
SHOWERS
EYEWASH STATIONS
USE IN A WELL VENTILATED AREA

X SHIPPING AND REGULATORY CLASSIFICATION DATA

DOT SHIPPING NAME: ISOPROPANOL SOLUTION
DOT HAZARD CLASS: FLAMMABLE LIQUID

DOT LABEL(S): FLAMMABLE LIQUID

UN/NA NUMBER: UN 1219

PLACARDS: FLAMMABLE LIQUID

EXPORT: ISOPROPANOL SOLUTION

EPA HAZARD WASTE: D001, IGNITIBLE

OSHA HAZARD CLASS: FLAMMABLE LIQUID

NFPA/HMIS CLASSIFICATION: FLAMMABILITY 4, REACTIVITY 1, HEALTH 1

TOXIC SUBSTANCES CONTROL ACT (TSCA) STATUS:

THE INGREDIENTS OF THIS PRODUCT ARE ON THE TSCA INVENTORY.

ADDITIONAL INFORMATION:

THESE DATA ARE OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE. THE RECOMMENDED HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTENT OF THE INTENDED USE.