

Star Nail International MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

CHEMICAL NAME: UV Lacquer
PRODUCT NAME: Kapping Sealer
PRODUCT USE: Organic Process Chemical
MANUFACTURER: STAR NAIL INTERNATIONAL.
ADDRESS: 29120 AVENUE PAINE
VALENCIA, CA 91355
24 HR. EMERGENCY TELEPHONE: CHEMTEL 1-813-248-0573 or 1-800-255-3924
PHONE: 1-661-257-7827
PREPARATION/UPDATE DATE: 2/13/06
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MSDS ID: M23-01

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

| ITEM | CHEMICAL NAME | CAS NUMBER: | WT/WT % |
|------|----------------------------|-------------|------------|
| 01 | Acrylic Polymer in Toluene | NE | 60.0-100.0 |
| 02 | Butyl Acetate | 123-86-4 | 15.0-40.0 |

| ITEM | ACGIH | | OSHA | | Company Recommendation | SKIN |
|------|-------------|-------------|---------|-------------|------------------------|--------|
| | TLV-TWA | TLV-STEL | PEL TWA | PEL CEILING | | |
| 01 | 50 ppm Skin | 75 ppm Skin | 200 ppm | 150 ppm | 50 ppm Skin | 50 ppm |
| 02 | 150 ppm | 200 ppm | 150 ppm | 200 ppm | 150 ppm | NE |

See Section 16 for Abbreviations.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:

| | | |
|---|--------------------|--|
| WARNING: | For Mixture: | Flammable Liquid and Vapor. |
| For Mixture: | | |
| Acute Hazards: | Eyes: | Can cause severe irritation, conjunctivitis and corneal clouding. |
| | Ingestion: | Can cause gastrointestinal irritation, nausea, vomiting, and diarrhea. May cause abdominal spasms and other symptoms that parallel over-exposure from inhalation. Aspiration into lungs can cause chemical pneumonitis, which may be fatal. |
| | Inhalation: | Inhalation of solvent vapors or mist can cause irritation of the nose, throat and lungs; headache; dizziness; drowsiness; fatigue; loss of coordination; unconsciousness. |
| | Skin: | Solvent may be absorbed through the skin with the appearance of initial inhalation exposure symptoms. Moderate Irritant. Can cause defatting and drying of the skin, which can lead to irritation and dermatitis. |
| Chronic Hazards: | Inhalation: | High solvent vapor or mist concentrations can cause respiratory tract irritation, liver, kidneys and cardiovascular system. |
| | Chronic Poisoning: | Anemia, decreased blood cell count and bone marrow hypoplasia. Liver and kidney damage may occur. Exposure may effect the developing fetus. |
| Aggravation of Pre-existing Conditions: | | Persons with pre-existing skin disorders or impaired liver or kidney function may be more susceptible to the effects. Alcoholic beverage consumption can enhance the toxic effects. Chronic respiratory problems, such as asthma, emphysema or bronchitis. May aggravate existing skin conditions. |
| Note to Physician: | | Acute massive exposure to toluene can cause transient hematuria and albuminuria. Cardiac arrhythmias can occur after massive inhalation. |

CARCINOGENICITY:

Toluene, the solvent for the Acrylic Polymer, is considered to be unclassifiable as to human carcinogenicity by IARC. This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. None of the other components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens.

PRIMARY ROUTES OF ENTRY:

Inhalation, Skin or Eyes.

SECTION 4 - FIRST AID MEASURES

EMERGENCY AND FIRST AID PROCEDURES:

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| EYES: | If product gets in the eyes, flush with copious amounts of lukewarm water for at least 15 minutes. If irritation occurs, contact a physician. |
| INGESTION: | If ingested, do not induce vomiting. If product has been swallowed, drink plenty of water or milk IMMEDIATELY. If the patient is vomiting, continue to offer water or milk. Never give anything by mouth to an unconscious person. Provide an estimate of the time at which the material was ingested and the amount of the substance that was swallowed. Get medical attention immediately. |
| INHALATION: | Remove to fresh air. Seek immediate medical attention. |
| SKIN: | If irritation occurs and product is on the skin, rinse thoroughly with lukewarm water, followed by a thorough washing of the effected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately. |
| CLOTHING: | Remove contaminated clothing, wash thoroughly before reuse. |
| TREATMENT: | Treat symptoms conventionally, after thorough decontamination. |

SECTION 5 - FIRE FIGHTING MEASURES

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| FLASH POINT: | 7 °C, 45 °F for Toluene |
| FLAMMABLE LIMIT, AIR VOL% LOWER: | 1.2 for Toluene |
| UPPER: | 7.1 for Toluene |
| AUTOIGNITION TEMPERATURE: | 425 °C, 797 °F for Butyl Acetate |
| EXTINGUISHER METHOD: | Carbon Dioxide, Dry Chemical, Alcohol Foam or Water Spray. Water spray may be ineffective on the fire, but should be used to cool fire-exposed containers and structures. |
| FIRE AND EXPLOSION HAZARDS: | Eliminate sources of ignition. Above the flash point, vapor-air mixtures are explosive within the flammable limits. Sealed containers may rupture when heated. Vapors can flow along surfaces to distant ignition sources and flash back. |
| SPECIAL FIRE FIGHTING PROCEDURES: | This product is a flammable liquid. When involved in a fire, this product may ignite readily and decompose to produce carbon oxides. Vapors of this product are heavier than air and may travel to a source of ignition and flash back to a leaking or open container. Do not enter fire area without proper protection. Fight fire from a safe location. Heat/impurities may cause pressure to build and/or rupture closed containers, spreading fire, increasing risk of burns/injuries. Structural firefighters must wear SCBAs and full protective equipment. |
| SENSITIVE TO MECHANICAL IMPACT: | No. |
| SENSITIVE TO STATIC DISCHARGE: | Yes. |

SECTION 6 - ACCIDENTAL RELEASE MEASURES**ACCIDENTAL RELEASE:**

Before cleaning any spill or leak, individuals involved must wear appropriate Personal Protective Equipment (e.g., goggles, gloves). Deny entry to all unprotected individuals. Dike and contain spill with inert material (e.g. sand or earth). Use ONLY non-sparking tools for recovery and cleanup. Maximize ventilation (open doors and windows) and secure all sources of ignition. Place into appropriate closed container(s) for disposal in accordance with local, state and federal regulations. Wash all affected areas with plenty of warm water and soap. Remove any contaminated clothing and wash thoroughly before reuse. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water.

SECTION 7- HANDLING AND STORAGE**PRECAUTIONS FOR HANDLING:**

Use local explosion-proof ventilation with a minimum capture velocity of 100 ft/min (30 m/min) at point of material release. Refer to Industrial Ventilation: A Manual of Recommended Practice published by the American Conference of Governmental Hygienist. Observe precautions found on label. Always open containers slowly to allow any excess vapor pressure to vent. Use explosion-proof equipment.

PRECAUTIONS FOR STORAGE:

Store containers in a cool, dry location, away from direct sunlight, heat, sparks, flame, other light sources, or sources of intense heat. Keep container closed after each use. Ground and bond all containers when transferring.

INDUSTRIAL HYGIENE PRACTICES:

Avoid contact with skin, eyes, clothing, and prolonged contact with the product. Use good personal hygiene and housekeeping. After use, wash hands and exposed skin with soap and water. Do not eat, drink or smoke while handling product.

SECTION 8 - EXPOSURE CONTROL/PERSONAL PROTECTION

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| VENTILATION: | Refer to Section 7 regarding the ventilation requirements for working with this product. Use explosion-proof local exhaust at processing equipment, including buffers, sanders, grinders and polishers. High temperature processing equipment should be well ventilated. |
| RESPIRATORY PROTECTION: | A respirator should be worn whenever workplace conditions warrant a respirators use. None required if airborne concentrations are maintained below the exposure limit listed in Section 2. If necessary, use only respiratory protection authorized per U.S. OSHA's requirement in 29 CFR §1910.134 or other appropriate governing standard. |
| EYE PROTECTION: | Depending on the use of this product, splash or safety glasses may be worn. If necessary, refer to U.S. OSHA 29 CFR §1910.133, or other appropriate governing standard. Ensure that an eyewash station, sink or washbasin is available in case of exposure to eyes. |
| PROTECTIVE GLOVES: | If anticipated that prolonged & repeated skin contact will occur during use of this product, wear chemical resistant gloves for routine industrial use. If necessary, refer to U.S. OSHA 29 CFR §1910.138, or other appropriate governing standards. |
| OTHER PROTECTIVE EQUIPMENT: | No special body protection is required under typical circumstances of use and handling. If necessary, refer to appropriate governing standards. An eyewash station and a safety shower are recommended. |

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

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| APPEARANCE: | Clear colorless liquid. |
| ODOR: | Characteristic Sweet or Sour odor. |
| pH: | ND |
| ODOR THRESHOLD: | ND |
| BOILING POINT: | 111 °C, 232 °F for Toluene |
| MELTING POINT: | -77 °C, -107 °F for Butyl Acetate |
| VISCOSITY: | NE |
| SPECIFIC GRAVITY (H₂O=1): | ND |
| VAPOR PRESSURE: | 22 mm Hg @ 20 °C, 68 °F for Toluene |
| PERCENT VOLATILE W/W%: | ~60 % |
| VAPOR DENSITY (AIR=1): | Both solvents 3 to 4 times heavier than air |
| EVAPORATION RATE (BuAc =1): | 1.9 Toluene |
| SOLUBILITY IN WATER: | Practically insoluble to slightly soluble. |
| COEFFICIENT OF WATER/OIL DISTRIBUTION: | < 3.0 for Toluene |

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: Heat, open flames, sparks, static electricity, sunlight, or other sources of ignition.

INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Mainly Oxides of Carbon when burned.

HAZARDOUS POLYMERIZATION: MAY OCCUR: WILL NOT OCCUR: X

STABILITY: UNSTABLE: STABLE: X

SECTION 11- TOXICOLOGICAL PROPERTIES

TARGET ORGANS:

For Acrylic Polymer in Toluene:

None Listed.

For Toluene:

Liver and Kidneys.

For Butyl Acetate:

None Listed.

SENSITIVITY DATA:

For Acrylic Polymer in Toluene:

None listed.

For Toluene:

Eye Human:

300 ppm.

Eye Rabbit:

870 µg. Mild.

Skin Rabbit:

435 mg. Mild

Skin Rabbit:

500 mg. Moderate.

For Butyl Acetate:

Eye Human:

300 ppm.

Eye Rabbit:

100 mg. Moderate.

Skin Rabbit:

500 mg/24H. Moderate.

MUTAGENICITY DATA:

For Acrylic Polymer in Toluene:

None listed.

For Toluene:

Inhalation Rat

Cytogenetic Analysis:

5400 µg/m³/16W.

Subcutaneous Rat

Cytogenetic Analysis:

9600 mg/kg/12D.

REPRODUCTIVE TOXICITY DATA:

For Acrylic Polymer:

None listed.

For Toluene:

Has been demonstrated to be embryofetotoxic and teratogenic in laboratory animals.

Inhalation Mouse

TC_{Lo}: 500 mg/m³/24H, 6-13D preg.

Inhalation Mouse

TC_{Lo}: 1000 ppm/6H, 2-17D preg.

Inhalation Mouse

TC_{Lo}: 400 ppm/7H, 7-16D preg.

Inhalation Mouse

TC_{Lo}: 200 ppm/7H, 7-16D preg.

Inhalation Rat

TC_{Lo}: 1500 mg/m³/24H, 1-8D preg.

Oral Mouse

TC_{Lo}: 9 gm/kg, 6-15D preg.

Oral Mouse

TC_{Lo}: 15 gm/kg, 6-15D preg.

Oral Mouse

TC_{Lo}: 30 gm/kg, 6-15D preg.

For Butyl Acetate:

Inhalation Rat

TCLo: 1500 ppm/7H, 7-16D Preg.

SECTION 11- TOXICOLOGICAL PROPERTIES - Continued

TOXICITY DATA:

This product has NOT been tested on animals to obtain toxicology data. There is toxicology data for the components of the product, which is found in scientific literature. Some of this data is presented below.

| | | |
|---------------------------------|--------------------|------------------------------|
| For Acrylic Polymer in Toluene: | None listed. | |
| For Toluene: | | |
| Inhalation Rat | LC _{Lo} : | 1000 mg/ m ³ /4H. |
| Inhalation human | LC _{Lo} : | 100 ppm |
| Oral Rat | LD ₅₀ : | 5000 mg/kg. |
| Skin Rabbit | LD ₅₀ : | 14000 mg/kg. |
| For Butyl Acetate: | | |
| Inhalation Human | TC _{Lo} : | 200 ppm. |
| Inhalation Rat | LC ₅₀ : | 390 ppm/4H. |
| Oral Rat | LD ₅₀ : | 14 gm/kg. |
| Oral Rat | LD ₅₀ : | 10768 mg/kg. |
| Skin Rabbit | LD ₅₀ : | >17000 mg/kg. |

SECTION 12 - ECOLOGICAL INFORMATION

There is no specific data available for this product; however, very large releases of this product may be harmful or fatal to overexposed aquatic life. There is ecological data for the components of the product, which is found in scientific literature. Some of this data is presented below.

AQUATIC TOXICITY:

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|--------------------|--------------------|------------------|
| For Toluene: | | |
| Rainbow Trout | LC ₅₀ : | 24 ppm/96H. |
| Fathead Minnow | LC ₅₀ : | 26 ppm/96H. |
| Bluegill Sunfish | LC ₅₀ : | 13 ppm/96H. |
| Algae | EC ₅₀ : | >433 ppm/96H. |
| Daphnia Magna | EC ₅₀ : | >11.5 ppm/48H. |
| For Butyl Acetate: | | |
| Fish | LC ₅₀ : | 10-100 mg/L/96H. |

ENVIRONMENTAL FATE:

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| For Toluene: | When released into soil, may evaporate to moderate extent. When released into soil, expected to leach into groundwater. When released into soil, may biodegrade to moderate extent. When released into water, may evaporate to moderate extent. When released into water, may biodegrade to moderate extent. When released into air, may moderately degraded by reaction with photochemically produced hydroxyl radicals. When released to into air, expected to have a half-life of less than 1 day. This material is not expected to significantly bioaccumulate. |
| For Butyl Acetate: | When released into the soil, this material is expected to readily biodegrade. When released into the soil, this material may leach into groundwater. When released into the soil, this material is expected to have a half-life of less than 1 day. When released into water, this material is expected to readily biodegrade. When released into the water, this material is expected to have a half-life between 1 and 10 days. This material has an estimated bioconcentration factor (BCF) of less than 100. When released into the air, this material may be moderately degraded by reaction with photochemically produced hydroxyl radicals. |

SECTION 13 - DISPOSAL CONSIDERATIONS

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| WASTE DISPOSAL METHOD: | When discarded it is as a hazardous waste by the EPA under RCRA. Dispose waste material in accordance with Federal, State, and Local regulations. |
| DISPOSAL OF EMPTY CONTAINERS: | Reuse of empty drums or containers is not recommended. Employees should be advised of the potential hazards due to residual flammable material, associated with empty containers. Dispose of all empty containers properly, in accordance with Federal, State and Local regulations. |

SECTION 14 - TRANSPORTATION

| | |
|------------------------------|--|
| DOT/UN SHIPPING NAME: | FLAMMABLE LIQUID, NOS (Toluene, Butyl Acetate) |
| DOT/UN CLASS: | 3 |
| NA/UN NUMBER: | UN 1993 |
| PACKING GROUP: | II |
| LABEL: | Flammable Liquid |
| IMDG CLASS: | 3.2 |
| EmS: | 3 |
| CERCLA RQ: | For Component: Toluene: 1000 lbs. Butyl Acetate: 5000 lbs. |

SECTION 15 - REGULATORY INFORMATION

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|--|--|
| SARA Reporting Requirements: | Yes |
| SARA Threshold Planning Quantity: | There are specific Threshold Planning Quantities for the components of this product. |
| TSCA Inventory Status: | The components of this product are listed on the TSCA Inventory. |
| CERCLA Reportable Quantity (RQ): | Yes |
| Other Federal Requirements: | This product complies with the appropriate sections of the Food and Drug Administration's 21 CFR. |
| Other Canadian Regulations: | This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR. The components of this product are listed on the DSL/NDSL. None of the components of this product are listed on the Priorities Substances List. |
| State Regulatory Information: | This product may contain components that are covered under specific state criteria. |

SECTION 15 - REGULATORY INFORMATION - CONTINUED

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|---------------------------|--|
| WARNING CODE: | F – Flammable |
| RISK STATEMENTS: | R10 – Flammable R36/38 – Irritating to eyes and skin. R43 – May cause sensitization by skin contact |
| SAFETY STATEMENTS: | S3 – Keep in a cool place. S7/8 – Keep container tightly closed and dry. S9 – Keep container in a well ventilated place. S15/16 – Keep away from heat, sources of ignition – No Smoking. S20 – When using do not eat or drink. S23 – Do not breath spray. S24/25 – Avoid contact with skin and eyes. S 29 – Do not empty into drains. S37/39 – Wear suitable gloves and eye/face protection. |

SECTION 16 - OTHER INFORMATION

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM (HMIS) RATING:

| | |
|--------------------------------|---|
| HEALTH: | 3 |
| FLAMMABILITY: | 3 |
| REACTIVITY: | 0 |
| PERSONAL PROTECTIVE EQUIPMENT: | Gloves and Safety Glasses or Chemical Splash Goggles. |

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD IDENTIFICATION RATING:

| | |
|---------------|---|
| HEALTH: | 3 |
| FLAMMABILITY: | 3 |
| REACTIVITY: | 0 |

ABBREVIATIONS:

| | | | |
|-----|--------------------------|------|---------------------------|
| NA | Not Applicable | ND | Not Determined |
| NE | Not Established | | |
| ppm | parts per million | G | Gallon |
| mg | Milligram | L | Liter |
| gm | Gram | mol | Mole |
| kg | Kilogram | μ | Micro |
| mm | Millimeter | p | Pico |
| Pa | Pascals | c | cento |
| LC | Lethal Concentration | LD | Lethal Dose |
| TC | Toxic Concentration | TD | Toxic Dose |
| BOD | Biological Oxygen Demand | COD | Chemical Oxygen Demand |
| Lo | Lowest | ThOD | Theoretical Oxygen Demand |
| TLm | Threshold Limit | IC | Inhibitory Concentration |
| DOC | Dissolved Organic Carbon | | |
| H | Hours | M | Months |
| D | Days | Y | Years |
| W | Weeks | | |

SECTION 16 - OTHER INFORMATION - CONTINUED

ACGIH American Conference of Governmental Industrial Hygienist
CPR Controlled Product's Regulation
DSL Canadian Domestic Substances List
NDSL Canadian Non-domestic Substance List
IARC International Agency for Research for Cancer
NOEL No Observed Effect Level
NOAEL No Observed Adverse Effect Level
OSHA Occupational Safety and Health Administration
PEL Permissible Exposure Limit
TLV Threshold Limit Value

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