SAFETY DATA SHEET (SDS)
Jacquard Removable Water-based Resist

Revision Date: 04/08/2019

SECTION I - CHEMICAL, PRODUCT & COMPANY INFORMATION

Product Name: REMOVABLE WATER-BASED RESIST
Number/Code: Colorant barrier for silk painting
Recommended Use: None known
Restrictions on use:
Supplier:

PRO Chemical & Dye
126 Shove Street
Fall River, MA 02724
508-676-3838

ChemTel, Inc

Emergency Number:
North America: 1-800-255-3924
International: 1-813-248-0585

SECTION 2 - HAZARD(S) IDENTIFICATION

This product is not considered to be or contain hazardous chemicals based on evaluations made by our company under the OSHA Hazard Communication Standard, reference 29 CFR 1910.1200.

Toxicological Data on Ingredients:

Hazard Classification
Physical Hazards:
Health Hazards:
Environmental Hazards:

Label Elements
Pictogram: None
Signal Words: None

Hazard Statements-EU:
The mixture does not meet the criteria for classification.

Precautionary Statements-EU:
Prevention:
Response:
Storage:
Disposal:
Hazard(s) not otherwise classified:

See section 8
See sections 4, 5 & 6
See section 7
See section 13
None known
SECTION 3 - COMPOSITION / INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical identity</th>
<th>Content in percent (%)</th>
<th>CAS #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gum Arabic</td>
<td>Proprietary*</td>
<td>9000-01-5</td>
</tr>
<tr>
<td>Carrageenan</td>
<td>Proprietary&quot;</td>
<td>NJRTK# 80 I 00348-5009P</td>
</tr>
<tr>
<td>Synthetic Hydrocarbon Mixture</td>
<td>Proprietary*</td>
<td>8002-74-2</td>
</tr>
<tr>
<td>Synthetic Paraffin</td>
<td>Proprietary&quot;</td>
<td>90000-07-1</td>
</tr>
</tbody>
</table>

* The specific chemical concentration is being withheld as a trade secret

SECTION 4 - FIRST AID MEASURES

Description of first aid measures:

In the event of skin contact:
Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Clean shoes thoroughly before reuse. Get medical attention immediately. Check for and remove contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes. Occasionally lifting the upper and lower eyelids. Get medical attention immediately.
Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

In the event of exposure by inhalation:
Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention immediately. No specific treatment. Treat symptomatically. Call medical doctor.

SECTION 5 - FIREFIGHTING MEASURES

OSHA flammability class:
Non-combustible liquid

Suitable extinguishing media:
Carbon Dioxide, dry chemical or fine water spray. Avoid water stream on molten burning material as it may scatter and spread the fire.

Special firefighting procedures:
Wear self-contained breathing apparatus and protective clothing approved by NIOSH. Watch footing on floors and stairs because of possible melting and spreading of material. Use spray to keep containers cool.

Unusual fire and explosion hazards:
Flash point >400°F/204°C. After water evaporation the solids will melt in proximity to fires causing slippery floors and stairs.
SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Methods and material for containment and clean up:

Wear appropriate PPE such as respiratory, safety glasses, rubber safety gloves and appropriate clothing to avoid absorption through skin, contact with eyes or inhalation if product is being used in large volumes.

Small spill: Wipe the affected area and collect spilled material. Wash the affected area with water.

Major spill: Do not let large volume spills or leakage enter watercourse. May be toxic to aquatic life. Absorb with oil-dri or similar inert material. Sweep or scrape up and containerize. Report major leaks and spills to the appropriate local, state and federal government.

SECTION 7 - HANDLING AND STORAGE

Precautions for safe handling:

Conditions for safe storage including any incompatibilities:

Always wear recommended personal protective equipment. Avoid breathing fumes from heating operations. Avoid spillage which can cause very slippery conditions on floors. Use good personal hygiene and housekeeping.

Avoid excessive heat. Keep from freezing.

SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION

Control parameters:

Appropriate engineering controls: Adequate ventilation is normally required when handling or using this material. If vapor or mist is generated, provide local exhaust ventilation to prevent airborne exposure.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Avoid eye contact. Wear safety spectacles, goggles or for larger quantities, a full face mask.

Skin protection: Skin contact should be minimized through the use of gloves and suitable long-sleeved clothing and protective apron.

Hand protection: Gloves

Other protective equipment: Gloves, overalls, apron and boots, as necessary, to prevent skin contact.
SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

General information:
Appearance and physical state: Liquid
Color: White/Off-white
Type of Odor: Typical wax/gum odor
Odor threshold: No data available

Important health, safety and environmental information:
Initial Boiling Point and Boiling Range: 100°C
Melting Point/Freezing Point: Melting Point: 259°F / 146°C / Freezing Point: No data available
Flammability Classification: No data available
Flash Point: >400°F / 204°C COG
Auto-ignition Temperature: No data available
Decomposition Temperature: No data available
Flammability Limits (lower/upper): No data available
Evaporation rate: Heavier than air
Vapor Pressure: Soluble in water
Vapor Density (Air= 1): No data available
Octanol/Water Partition Coefficient (log Pow): No data available
Specific Gravity: Soluble in water
Bulk Density: 8.5-9.5
Water Solubility: No data available
pH: No data available
Viscosity: No data available
Explosive Properties: No data available
Oxidizing Properties: No data available
Molecular Formula: No data available
Molecular Weight: No data available
Relative Density: No data available

SECTION 10 - STABILITY AND REACTIVITY
Reactivity: Stable at ambient temperature and under normal conditions of use.
Stability: Stable under normal conditions.
Possibility of hazardous reactions: Hazardous polymerization will not occur.
Conditions to avoid: Direct sunlight. Extremely high or low temperatures. Protect from moisture. Use good housekeeping practices during storage, transfer and handling to avoid excessive dust accumulation.
Incompatible materials: Strong acids. Strong bases.
Hazardous decomposition products: Under conditions of fire this material may produce: Carbon oxides (CO, CO₂),
SECTION 11 - TOXICOLOGICAL INFORMATION

Information on toxicological effects:
Acute toxicity (list all possible routes of exposure)
Acute Oral Toxicity: No information available
Acute Dermal Toxicity: No information available
Acute Inhalation Toxicity: No information available
Skin Corrosion/Irritation: Not classified
Serious Eye Damage / Eye Irritation: Not classified
Respiratory or Skin Sensitization: Not classified
Germ Cell Mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive Toxicity: Not classified
Specific Target Organ Toxicity - Single exposure (STOT-se): Not classified
Specific Target Organ Toxicity - repeated exposure (STOT-re): Not classified
Aspiration Hazard:
Potential Health Effects:
Skin Contact: Dust may cause minor irritation in skin folds or by contact in combination with tight clothing.
Eye Contact:
Ingestion: No information available
Inhalation: Prolonged inhalation of dust may cause minor respiratory irritation.
Chronic Health Effects: No information available
Additional Data: No information available

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity:
Acute/prolonged toxicity to fish: No information available
Acute/prolonged toxicity to aquatic invertebrates: No information available
Acute/prolonged toxicity to aquatic plants: No information available
Additional information:
Avoid release into the environment

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods:
Disposal:
Dispose of waste material in accordance with all local, regional, national and international regulations.
SECTION 14 - TRANSPORT INFORMATION

General Information: The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, DOT).

UN number: Not relevant
UN proper shipping name: Not relevant
Transport hazard class: Not relevant
Packing group: Not relevant

Environmental Hazards:
Environmentally hazardous substance: No
Special precautions for user: Not relevant

SECTION 15 - REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA
This product or its components are listed on the TSCA Inventory. This product or its components do not contain any chemicals subject to any rules or orders under TSCA sections 4, 5, 6, 7 or 8(d).

California Prop 65 Information: Not regulated
WHMIS Classification (Canada): Not subject to WHMIS regulations.
SARA Title III, Section 31 1/312:
Immediate/Acute Health (irritant): Yes
Contains an extremely hazardous substance: No

SARA Title III, Section 313:
This product does not contain any toxic chemical listed under Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986.

Clean Water Act - Priority Pollutants:
Contains no known priority pollutants at concentrations greater than 0.1%.

SECTION 16 - OTHER INFORMATION

HMIS Hazard ID:
Health: No information available
Flammability: No information available
Reactivity: No information available
Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; *Chronic health effect

Disclaimer:
The information contained in this SDS is based on data from sources considered to be reliable but this company does not guarantee the accuracy or completeness thereof. This company urges each customer or recipient of this SDS to study it carefully to become aware of and understand the hazards associated with this product. The reader should consider consulting reference works or individuals who are experts in ventilation, toxicology or fire and understand the data in this SDS.

Revision Date: 04/08/2019
National Chemical Inventories:
All components of this product are listed on the following chemical substance inventories: TSCA (USA)

- DSL (Canada)
- EINECS (Europe)
- ENCS (Japan) ECI
- AICS (Korea)
- AICS (Australia) NZIoC
- PICCS (New Zealand)
- IECSC (Philippines)
- IECSC (China)
Abbreviations

ACGIH  American Conference of Governmental Industrial Hygienists
ADR  International carriage of Dangerous goods by Road
AICS  Australian Inventory of Chemical Substances
ATE  Acute Toxicity Estimate
BIR  Bundesinstitut fur Risikobewertung recommendations for food contact materials
BCF  Bioconcentration Factor
BODS  5-day Biochemical Oxygen Demand
CERCLA  Comprehensive Environmental Response, Compensation and Liability Act
CLP  Classification, Labeling and Packaging regulation
COD  Chemical Oxygen Demand DOT
CLP  Classification, Labeling and Packaging regulation
EN 689  Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy.
ERG  Emergency Response Guide
GHS  Globally Harmonized System
HMIS  Hazardous Materials Information System IARC
ICAO  International Civil Aviation Organization
ICAO  International Civil Aviation Organization IDIH
IMDG  International Maritime Dangerous Goods
LD50  Lethal Dose to 50 of test animal population
MAK  Maximale Arbeitsplatz Konzentration
NTP  National Toxicology Program
OEL  Occupational Exposure Limit
OSHA  Occupational Safety & Health Administration
PBT  Persistent, Bioaccumulative and Toxic vPvB Very Persistent and Very Bioaccumulative PEL Permissible exposure limit
PICCS  Philippine Inventory of Commercial Chemical Substances
PNEC  Predicted No Effect Concentration
REACH  Registration, Evaluation and Authorization of Chemical Substances
RID  International carriage of dangerous goods by Rail SARA
REACH  Registration, Evaluation and Authorization of Chemical Substances
STEL  Short Term Exposure Limit
SVHC  Substance of Very High Concern
TIV  Threshold Limit Value
TSCA  Toxic Substances Control Act
TWA  Time Weighted Average
VOC  Volatile Organic Compound
WGK  Wassergefahrdungsklasse (Water Hazard Class) WHMIS
WHMIS  Workplace Hazardous Material Identification System