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SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

| | |
|----------------------------|--|
| PRODUCT NAME | Soogalu Acrylic Resin Powder |
| Product Description | Plasticized Polymethyl Methacrylate/Copolymer Blend |
| Manufacturer | Soogalu 3150 Arden Road, NW 3 rd Floor Atlanta, GA 30305 888-476-4530 Emergency Phone Number: Infotrac: 888-476-4530 |
| Recommended use | Soogalu Acrylic Resin Powder is a self-curing, high impact acrylic that was developed for orthodontic use in making strong and attractive appliances and retainers. The powder is a “Lo-Flo” formulation that will rapidly absorb the monomer and will not slump, flow or run. |
| Restrictions on use | Industrial Use Only |

2. HAZARDS IDENTIFICATION

| | |
|------------------------------|---|
| Hazard classification | Physical, Health, Environmental Eye Damage/Irritation-Category 2A Reproductive Toxicity-Category 2 Aquatic Toxicity-Category A3 |
| Signal Word | Warning |
| Hazard Statements | H319 Causes serious eye irritation H361 Suspected of damaging fertility or the unborn child H402 Harmful to aquatic life |

Symbol

Form 244 Rev 9/11/15



Precautionary statements

P201 Obtain special instructions before use
 P202 Do not handle until all safety precautions have been read and understood
 P264 Wash hands and exposed skin thoroughly after handling
 P273 Avoid release to the environment
 P280 Wear protective gloves/protective clothing/eye protection/face protection
 P281 Use personal protective equipment as required
 P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
 P308+P313 IF exposed or concerned: Get medical advice/attention
 P337+P313 Get medical advice/attention
 P405 Store locked up
 P501 Dispose of contents/container to an authorized disposal facility

Other hazards

N/A

3. COMPOSITION/INFORMATION ON INGREDIENTS

Statement for unknown toxicity

N/A

Chemical name

Polymethyl Methacrylate

Common name/synonyms

N/A

Impurities and stabilizing additives

| Chemical Name | Weight-% | CAS Number |
|--|----------|------------|
| Polymethyl Methacrylate | 70-80 | 9011-14-7 |
| Diethyl Phthalate | 10-20 | 84-66-2 |
| 2-Propenoic acid, 2-methyl-ethyl ester, polymer with methyl 2-methyl-2propenoate | 5-10 | 25685-29-4 |

*Specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret is required

4. FIRST AID MEASURES**General Advice**

Provide the SDS to medical personnel for treatment.

| | |
|---------------------|--|
| Inhalation | Remove victim to fresh air. Seek immediate medical attention. |
| Skin Contact | Rinse thoroughly with lukewarm water, followed by a thorough washing of the affected area with soap and water. If irritation, redness or swelling persists, contact a physician immediately. |
| Eye Contact | If product gets in the eyes, flush with 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. |

Most important symptoms or effects, both acute and delayed:

N/A

Indication of immediate medical attention and special treatment needed:

N/A

5. FIRE-FIGHTING MEASURES

| | |
|---|---|
| Suitable extinguishing media | Water, Chemical (alcohol-resistant) foam, dry chemical, or carbon dioxide. |
| Unsuitable extinguishing media | Not known |
| Special hazards arising from substance | Polymers are combustible dusts, care should be taken to avoid creating explosive concentrations in the air. Follow grounding and bonding procedures. |
| Special protective equipment and Precautions for fire fighters | Polymer dust is combustible. The explosive limits of the polymer particles suspended in air are approximately those of coal dust. Polymers are sensitive to static discharge, follow grounding and bounding procedures. Polymers are not sensitive to mechanical impacts. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|--|--|
| Personal precautions, protective equipment and emergency procedures | Before cleaning any spill or leak, individuals must wear appropriate Personal Protective Equipment that is specified in section 8. Keep airborne particulates at a minimum when cleaning up spills. Deny entry to all unprotected individuals. Remove any contaminated clothing and wash thoroughly before reuse. |
| Environmental precautions | Extinguish all ignition sources. Keep spills and cleaning runoffs out of municipal sewers and open bodies of water. US Regulations (CERCLA) require reporting spills and releases to soil, water and air in excess of reportable quantities. The toll free number for the US Coast Guard National Response Center is (800) 424-8802. |
| Methods and materials for containment | Prevent further leakage or spillage if safe to do so. Dike and contain spill with inert material (e.g. sand or earth). May contaminate water supply. |
| Methods and materials for cleaning up | Maximize ventilation (open doors and windows) and secure all sources of ignition. Use good, local ventilation with a minimum capture velocity of 100 ft/min (30 m/min) at point of product release. 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. Not a RCRA Hazardous waste. |

7. HANDLING AND STORAGE

| | |
|-------------------------------|---|
| Handling | Use in well ventilated areas. Avoid contact with skin, eyes and clothing. Avoid breathing dust. Use good personal hygiene and housekeeping. Avoid prolonged contact with the product. Use in a well-ventilated location (e.g., local exhaust ventilation, fans). After use, wash hands and exposed skin with soap and water. Do not eat, drink or smoke while handling product. |
| Storage | Store containers in a cool, dry location, away from direct sunlight, heat, sparks, flame, other light sources, or sources of intense heat. |
| Storage temperature | The temperature should remain at or under 72°F (22°C) at all times. |
| Incompatible materials | Strong oxidizers, strong oxidizing agents. |

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

| Chemical Name / CAS No. | OSHA Exposure Limits | ACGIH Exposure Limits | Other Exposure Limits |
|---|----------------------|-------------------------|--------------------------------|
| Polymethyl Methacrylate 9011-14-7 | | | |
| Diethyl Phthalate 84-66-2 | | 5 mg/m ³ TWA | NIOSH: 5 mg/m ³ TWA |
| 2-Propenoic acid, 2-methyl-, ethyl ester, polymer with methyl 2-methyl-2-propenoate 25685-29-4 | | | |

Appropriate Engineering Controls

Use local explosion-proof ventilation that is adequate to keep employee exposure to airborne concentrations below exposure limits. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|--|-------------------|
| Appearance | Clear |
| Odor | Faint |
| Boiling Range | 295 °C |
| Flash Point | 579°F, 304°C |
| Evaporation Rate | No data available |
| Upper/Lower Flammability limits | 0% |

10. STABILITY AND REACTIVITY

| | |
|---|--|
| Reactivity | N/A |
| Chemical Stability | Stable |
| Hazardous Reactions | Hazardous polymerization will not occur. |
| Conditions to avoid | N/A |
| Materials to avoid | Strong oxidizers |
| Hazardous Decomposition Products | Methacrylate Monomer and Oxides of Carbon when burned. |

11. TOXICOLOGICAL INFORMATION

Mixture Toxicity
Component Toxicity

Effects of Chronic Exposure

Carcinogenicity

Dibutyl Phthalate is listed by the EPA and OSHA as a possible carcinogen. None of the other components of this material are listed by IARC, NTP, OSHA, or ACGIH as carcinogens.

Reproductive Toxicity

Women working where phthalates are used had higher incidence of miscarriages, menstrual disorders, and reduced gestation periods.

Teratogenicity

Dibutyl Phthalate may cause fetal effects based on animal studies.

Mutagenicity Data

This product is not reported to produce mutagenic effects in humans.

Identify likely routes of exposure:

| | |
|-------------------|-----|
| Inhalation | N/A |
| Ingestion | N/A |
| Skin | N/A |
| Eye | N/A |

Description of delayed, immediate or chronic effects from short term and long term exposure:

N/A

Description of symptoms:

N/A

12. ECOLOGICAL INFORMATION (If available)

Very large releases of this product is harmful or fatal to overexposed aquatic life.

Component Ecotoxicity

Diethyl Phthalate

96 Hr LC50 Pimephales promelas: 17 mg/L [flow through]; 96 Hr LC50 Pimephales promelas: 16.8 mg/L [static]; 96 Hr LC50 Lepomis macrochirus: 22 mg/L [flow-through]; 96 Hr LC50 Lepomis macrochirus: 16.7 mg/L [static]; 96 Hr LC50 Oncorhynchus mykiss: 12 mg/L [flow-through]
 48 Hr EC50 Daphnia magna: 36 - 74 mg/L; 48 Hr EC50 Daphnia magna: 86 mg/L [Static]
 72 Hr EC50 Desmodesmus subspicatus: 23 mg/L; 72 Hr EC50 Desmodesmus subspicatus: 23 mg/L [static]; 96 Hr EC50 Desmodesmus subspicatus: 21 mg/L; 96 Hr EC50 Desmodesmus subspicatus: 21 mg/L [static]; 72 Hr EC50 Pseudokirchneriella subcapitata: 42 - 255 mg/L; 96 Hr EC50 Pseudokirchneriella subcapitata: 2.11 - 4.29 mg/L [static]

13. DISPOSAL CONSIDERATIONS (If applicable)**Waste Treatment Methods****Disposal of Wastes**

Dispose waste material in accordance with Federal, State, and Local regulations. It is the responsibility of the generator to determine at the time of disposal whether the product meets

the criteria of a hazardous waste. Comply with all applicable federal, state and local regulations. Waste disposal options include landfilling solids at permitted sites. Incinerate in a chemical incinerator equipped with an afterburner and scrubber. Use registered transporters.

Contaminated Packaging

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

14. TRANSPORT INFORMATION (If applicable)

| <u>Agency</u> | <u>Proper Shipping Name</u> | <u>UN Number</u> | <u>Packing Group</u> | <u>Hazard Class</u> |
|---------------|-----------------------------|------------------|----------------------|---------------------|
| DOT | Not Regulated, Polymer, NOS | | | |
| IATA | Not Regulated, Polymer, NOS | | | |
| IMDG | Not Regulated, Polymer, NOS | | | |

15. REGULATORY INFORMATION (If available)

State of California Safe Drinking Water and Toxic Enforcement Act of 1986

(Proposition 65): WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

- None

SARA 313

- None

US State Right-to-Know Regulations

- None

| <u>Country</u> | <u>Regulation</u> | <u>All Components Listed</u> |
|----------------|------------------------|------------------------------|
| | EINECS | Yes |
| | SARA Hazard categories | No |
| | TSCA Inventory | Yes |

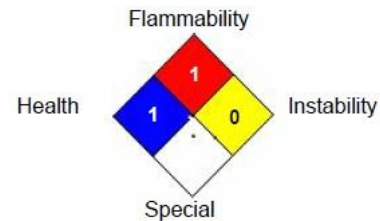
16. OTHER INFORMATION

Hazardous Material Information System (HMIS)

| | |
|----------------------------|--------------------------------|
| HEALTH | <input type="text" value="1"/> |
| FLAMMABILITY | <input type="text" value="1"/> |
| PHYSICAL HAZARD | <input type="text" value="0"/> |
| PERSONAL PROTECTION | <input type="text" value="B"/> |

HMIS & NFPA Hazard Rating Legend
 * = Chronic Health Hazard
 0 = INSIGNIFICANT
 1 = SLIGHT
 2 = MODERATE
 3 = HIGH

National Fire Protection Association (NFPA)



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