



Safety Data Sheet

SECTION 1 - Identification:

PRODUCT NAME: Slip Grip

MANUFACTURER'S NAME: ADDRESS: RESIN RESEARCH INC.

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DATE PRINTED: 10/2/2012 NAME OF PREPARER: Greg Loehr

INTENDED USE: Additive for printing inks, paints and coatings to provide slip, mar and abrasion resistance properties.

SECTION 2 - Hazard identification:

HAZARD CLASSIFICATION: Not classified as hazardous.

EMERGENCY OVERVIEW

These products are micronized powders. Static charges on the powders may ignite flammable atmospheres. High levels of product dust in the atmosphere may present a dust explosion hazard.

(See Dust Hazard Reference in Section 16.)

No significant health hazard expected from exposure to products.

HMIS CODES: H F R P 110E

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Treat powder as a nuisance dust. Keep dust level below 5mg/m³ for respirable fraction and

10mg/m³ for total dust (ACGIH/TWA). OSHA PEL 5mg/m³. Exposure may cause dizziness, headache, respiratory irritation or unconsciousness.

EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE:

Particulates may cause mechanical eye irritation. Flush eyes with copious amounts of water for at least 15 minutes.

SKIN CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Negligible dermal irritant. Exposure may lead to itching, scaling, drying and irritation of skin.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Generally non toxic unless large quantities are ingested.

HEALTH HAZARDS (ACUTE & CHRONIC):

ACUTE EFFECTS: High concentrations of polymer fumes may cause eye, nose and respiratory irritation, dizziness or unconsciousness.

CHRONIC EFFECTS: Repeated skin contact can lead to drying, defatting, itching, stinging and irritation.

N.T.P. CARCINOGEN: No I.A.R.C. CARCINOGEN: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGREGATED BY EXPOSURE: May irritate people with skin problems, asthma and lung diseases. Susceptible individuals may have an allergic reaction.

SECTION 3 - Composition/information on ingredients:

None of the components of this product are categorized as hazardous. Therefore, they do not need to be listed. If listed below, it is for informational purposes only. Confidential Business Information has been omitted by ruling of the competent authorities.

COMPONENTS

Polypropylene homopolymer CAS # 9003-07-0

AVOID HIGH CONCENTRATIONS OF POLYMER FUMES WHEN MELTING.

SECTION 4 - First-aid measures:

IF IN EYES: Flush with copious amounts of water for at least 15 minutes. *IMMEDIATE MEDICAL ATTENTION IS NECESSARY.*

IF ON SKIN: If burned by hot wax, quench immediately with cold tap water. Dry burn area and loosely cover to protect against infection. Do not apply ointment or salves. *IMMEDIATE MEDICAL ATTENTION IS NECESSARY.*

For skin irritation, wash skin with soap and water and use emollient skin cream.

IF INHALED: Treat as a nuisance dust. Remove victim to fresh air and provide oxygen if breathing is difficult. Immediate medical attention not normally required. No delayed effects expected.

IF INGESTED: Not a normal or expected route of introduction. If large quantities are ingested - *IMMEDIATE MEDICAL ATTENTION IS NECESSARY*. Do not give anything to an unconscious person.

INSTRUCTION FOR PHYSICIANS:: No specific advice. Treat according to symptoms present.

SECTION 5 - Fire-fighting measures: OSHA FLAMMABILITY CLASS : Combustible solid.

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 >530 F 277 C. Melts in proximity to fires causing slippery floors and stairs. When powder is suspended in air, these products could be FLAMMABLE/EXPLOSIVE. In these circumstances, keep away from heat, sparks and open flames. Static charges on powders or powders in liquids may ignite flammable atmospheres. See Section 7 "HANDLING AND STORAGE" for suggestions on how to use these products under such conditions. Also refer to NFPA Bulletin 654, "Prevention of Fire and Dust Explosions in the Chemical, Dye, Pharmaceutical, and Plastics Industries", for safe handling procedures.

SECTION 6 - Accidental release measures:

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Wear recommended personal protective equipment. Remove ignition sources. Sweep up with a minimum of dusting. Keep away from heat or flame. Collect in containers (e.g. fiberboard drums or cartons). If hot liquid, attempt to confine spill and let the polymer solidify. Once solid, it may be recovered as the powder. Report major leaks and spills to the appropriate local, state and federal government agencies.

HAZARD WARNING

These products are micronized powders. Static charges on the powders may ignite flammable atmospheres. High levels of product dust in the atmosphere may present a dust explosion hazard.

(See Dust Hazard Reference in Section 16. Read Section 7.)

See the Regulatory Information (Section #15) regarding reporting requirements.

SECTION 7 - Handling and storage:

SPECIAL HANDLING AND STORAGE: (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.

STATIC ELECTRICITY AND FINE PARTICLE SIZE WAXES

Electrostatic charges of non-conductive materials is a natural phenomenon ranging from harmless to a nuisance to a hazard, depending on the degree of charging and the environment where the discharge takes place. In the case of micronized polymers and waxes, very high levels of static electricity develop in their manufacture, transportation and handling. These products, being poor conductors of electricity, can and will hold a static charge for long periods of time. With this in mind, a great deal of care should be exercised when handling this type of product in or around flammable liquids, particularly if the liquid is at or near its flashpoint. The generation of static electricity cannot be prevented because its intrinsic origins are present at every particle interface. Some common sense approaches to the hazards involved with static electricity are as follows:

- Use only conductive equipment and keep all components grounded and bonded to the same vessel in order to equalize any potential charge.
- Avoid projections and probes that could lead to discharge between the charged polymer and probe.
- Avoid a flammable condition by the use of inert gases in the container or by providing sufficient exhaust so as to prevent a buildup of flammable solvent vapors.

- Never pour micronized polymers or waxes from a drum or large container directly into hot flammable solvents.

- Add micronized polymers or waxes slowly and in small quantities to hot flammable solvents.

- Do not permit the product to free fall directly into the solvent. Use a pipe or chute that leads down to the level of the solvent. Make sure the pipe or chute is grounded and bonded.
- If mechanical equipment must be used, a slow-turning screw feeder that is grounded and is preferred.
- Good housekeeping is of prime importance. The building and equipment should be designed to eliminate shelves and ledges and similar places where materials can accumulate.

The above are only suggestions and should not be taken as recommended practices in your establishment and in no way should be considered as comprehensive engineering controls. A more detailed discussion and recommended practices can be found in NFPA 77 issued by the National Fire Protection Association Inc. in 1988.

STORAGE RECOMMENDATIONS:

Avoid excessive heat. Do not store near strong oxidizing agents and amines.

SECTION 8 - Exposure controls/personal protection:

ENGINEERING CONTROLS:

Use adequate ventilation during heating processes or if dusty conditions prevail when handling powdered materials. For storage and ordinary handling, general ventilation is adequate.

RESPIRATORY PROTECTION: Use a NIOSH approved dust respirator with powdered wax. During melting or conveying in molten state, use organic vapor respirator.

VENTILATION: Face velocity greater than 60 cfm (adequate to capture wax dust or fumes).

SKIN PROTECTION: Use heat resistant, impervious gloves to avoid repeated/prolonged skin contact with molten material and powder. Other protective garments as necessary.

EYE PROTECTION: Chemical goggles around molten material and in dusty conditions.

OTHER PROTECTIVE EQUIPMENT OR CLOTHING: As needed to prevent repeated/prolonged contact.

WORK / HYGIENIC PRACTICES: Wash skin thoroughly with soap and warm water after handling and before smoking, eating or applying makeup. If clothes become contaminated, change to clean clothing. Do not wear contaminated

clothing until properly laundered. Further information relating to the safe handling and use of fluorocarbon polymers may be found in DWE (NIOSH), Publication No. 77-193.

EXPOSURE GUIDELINES: Powdered forms may generate nuisance particulates upon handling. ACGIH TLV = 10mg/m³. OSHA PEL 5mg/m³.

SECTION 9 - Physical and chemical properties:

Appearance: White Powder

Odor: Typical Wax Odor : Not Applicable

Odor threshold: Not applicable

Melting Point: Not Applicable :330F166C

Boiling Point: Not Applicable :>530F277C

Flash point: 277C

Flammability: Combustible solid

SECTION 10 - Stability and reactivity:

STABILITY: Stable at normal conditions.

CONDITIONS TO AVOID: Extreme heat, sparks and open flame.

INCOMPATIBILITY (AVOID CONTACT WITH): Strong oxidizing agents and amines.

HAZARDOUS POLYMERIZATION: Should Not Occur

HAZARDOUS DECOMPOSITION PRODUCTS AND/OR BY PRODUCTS: These products may emit: oxides of carbon and nitrogen.

SECTION 11 - Toxicological information:

Acute toxicity: No data developed none expected

Skin corrosion/irritation: No data developed none expected

Serious eye damage/irritation: No data developed none expected

Respiratory or skin sensitization: Should be treated as nuisance dust

Germ cell mutagenicity: No data

Carcinogenicity: No data, none expected

Reproductive toxicity: No data

Aspiration Hazard: No data, Aspiration possible

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: May irritate people with skin problems, asthma and lung diseases. Susceptible individuals may have an allergic reaction.

SECTION 12 - Ecological information:

ECOLOGICAL PROFILE:

No data have been developed on this subject. These polymeric products are not soluble in water. They are not considered biodegradable. Potential environmental impact in case of spill or release is considered to be minimal to NIL.

SECTION 13 - Disposal considerations:

WASTE DISPOSAL METHOD: Assume conformity with applicable disposal regulations. Preferred method of disposal is in closed containers of sufficient strength to eliminate leakage at approved incineration or chemical landfill waste disposal site in accordance with local regulations.

Sewage disposal is discouraged.

RCRA: Is the unused product a RCRA hazardous waste if discarded? No.

The information offered here is for the product as shipped. Use and/or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA classification and the proper disposal method.

SECTION 14 - Transport information:

UN Number: Not classified as hazardous.

UN Proper shipping name: N/A

Transport hazard class: N/A

Packing group: N/A

Environmental hazards: Not considered marine pollutant, Not considered environmentally hazardous.

Special precautions: Keep sealed and secure. Do not expose to heat.

DOT Classification: Non hazardous

INCO Terms: EXW for Regulatory Purposes and Responsibilities

SECTION 15 - Regulatory information:

COMPLETE AND CURRENT REGULATORY INFORMATION IS AVAILABLE UPON REQUEST. (RSS FORM).

REACH: Registration and compliance pending.

T.S.C.A: 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 PROP65 INFORMATION: Not Regulated.

WHMIS CLASSIFICATION (CANADA): Not subject to WHMIS regulations.

SARA TITLE III: This product is subject to SARA Title III reporting?

Section 311/312 - Immediate/Acute Health (irritant): YES

Section 302 - Contains an extremely hazardous substance: NO

Section 313 - This product does not contain any toxic chemical listed under Sec. 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:

RESIN RESEARCH INC. QUALITY ASSURANCE PROGRAM CERTIFIED TO ISO-9001 Refer to Micro Powders, Inc. Regulatory Summary Sheet for further regulatory information.

Other useful guides to handling organic powders include:

Recommended Practice on Static Electricity

Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids

Recommended Practice for the Classification of Combustible Dusts and of Hazardous (Classified) Locations for Electrical Installations in Chemical Process Areas

DUST HAZARD - Notification given pursuant to Table 1.5.2 of the 3rd Revision of GHS (2009).

Information in this Material Data Safety Sheet has been provided by suppliers to RESIN RESEARCH INC. as well as internally developed data and opinions.

THE DATA SET FORTH IN THIS SDS ARE TYPICAL VALUES (NOT SPECIFICATIONS) BASED ON INFORMATION PROVIDED BY THE SUPPLIERS OF THE RAW MATERIALS AND CHEMICALS USED IN THE MANUFACTURE OF THE AFOREMENTIONED PRODUCT. RESIN RESEARCH, INC. MAKES NO WARRANTY WITH RESPECT TO THE ACCURACY OF THE INFORMATION PROVIDED BY THEIR SUPPLIERS AND DISCLAIMS ALL LIABILITY OF RELIANCE THEREOF. RESIN RESEARCH INC. WARRANTS ONLY THAT ITS PRODUCTS CONFORM WITH THEIR PUBLISHED SPECIFICATIONS AND NO OTHER EXPRESS WARRANTY IS MADE WITH REGARD THERETO. WE DO NOT GUARANTEE FAVORABLE RESULTS AND WE ASSUME NO LIABILITY IN CONNECTION WITH THE USE OF THESE PRODUCTS. THEY ARE ALL INTENDED FOR USE BY PERSONS HAVING TECHNICAL SKILL AND KNOWLEDGE, AT THEIR OWN DISCRETION AND RISK.