

PRODUCT SPECIFICATION

Re-Creating New Materials for Industry

LP 300 TO HP 3.5 Mesh Cryogenically Processed Polymers

A free flowing powdered material that easily disperses in many substrates and can give significant cost savings without sacrificing performance. Examples are thermoplastics, molded and calendared plastic products, coatings and high-end rubber compounds

DESCRIPTION

A free flowing powder produced from vulcanized rubber material.

SPECIFICATION PROPERTIES

PACKAGING

Super Sacks: FIBC, 2000 lb & 1000 lb nominal
Paper Bags: 40 lbs
Plastic Bags, regular or low melt
Bulk containers if required
Special moisture-proof if required
Skid Size: 40 X 48
Total Skid Weight: 2,000 lbs./1 Ton

FREIGHT

Normal transport is by truck. Rail and maritime shipping is available.

MATERIAL SAFETY DATA SHEET

This form may be used to comply with OSHA Hazard Communication Standard, 29 CFR 1910.1200. To be valid, all information required by 1910.120(g) of the Standard must appear on this form. Consult the Standard for specific requirements. Note: Blank spaces are not permitted. Should any item not be applicable, or no information is available, the space must be marked to indicate as such.

SECTION 1 – PRODUCT AND COMPANY

Manufacturer's Name:

Emergency Telephone Number:

MFC 1 Spray Lining

877 891 8741

Address (Number, Street, City, State, and Zip Code) :

PO BOX 1652, MELBOURNE, FL. 32902

Chemical Name:

Trade Name:

FILLING

MIL HEIGHT BONDING

LP300 TO HP3.5

Chemical Family:

Formula:

POLYMER COMPOSITION

SHRED & & CRYOGENICALLY POWDERED

SECTION 2 – COMPOSITION/INFORMATION ON REGULATED INGREDIENTS

Components	CAS-No.	Weight %
Silica, amorphous	7631-86-9	1 - 5
Titanium dioxide	13463-67-7	1 - 5
Zinc oxide	1314-13-2	1 - 5
Petroleum distillates, hydro treated heavy naphthenic	64742-52-5	5 - 10
Kaolin	1332-58-7	10 - 30
Talc	14807-96-6	10 - 30

SECTION 3 – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

This mixture has not been evaluated as a whole. Information provided on the health effects of this product is based on individual components. All ingredients are bound and potential for hazardous exposure as shipped is minimal. However, some vapors may be released upon heating and end-user (fabricator) must take the necessary precautions (mechanical ventilation, respirator protection, etc.) to protect employees from exposure.

POTENTIAL HEALTH EFFECTS

Routes of Exposure: Inhalation, ingestion, skin contact

Acute exposure:

Inhalation: Particulates, like other inert materials can be mechanically irritating.

Ingestion: May be harmful if swallowed.

Eyes: Particulates, like other inert materials can be mechanically irritating.

Skin: Experience shows no unusual dermatitis hazard from routine handling.

Chronic exposure: Refer to Section 11 for Toxicological Information.

Medical Conditions aggravated by exposure: None Known.

SECTION 4 – FIRST AID MEASURES

Inhalation: Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.
When symptoms persist or in all cases of doubt, seek medical advice.

Ingestion: Do not induce vomiting without medical advice. When symptoms persist or in all cases of doubt, seek medical advice.

Eyes: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, seek medical attention.

Skin: Wash off with soap and plenty of water. If skin irritation persists, seek medical attention.

SECTION 5 - FIRE FIGHTING MEASURES

Flash point: Not applicable

Flammable Limits

Upper explosion limit: Not applicable

Lower explosion limit: Not applicable

Auto ignition temperature: Not applicable

Suitable extinguishing media: Water spray, dry powder, foam, carbon dioxide (CO2) none.

Special Fire Fighting Procedures: Full face self-contained breathing apparatus (SCBA) used in positive pressure mode should be worn to prevent inhalation of airborne contaminants.

Unusual Fire/Explosion Hazards: Carbon dioxide (CO₂), carbon monoxide (CO) oxides of nitrogen (NO_x), other hazardous materials, and smoke are all possible.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear appropriate personal protection during cleanup, such as impervious gloves, boots and coveralls.

Environmental precautions: Should not be released into environment. The product should not be allowed to enter drains, watercourses or the soil.

Methods for cleaning up: Clean up promptly by sweeping or vacuum. Package all material in plastic, cardboard or metal containers for disposal. Refer to Section 13 of this MSDS for proper disposal methods.

SECTION 7 – HANDLING AND STORAGE

Handling: Take measures to prevent the build up of electrostatic charge. Heat only in areas with appropriate exhaust ventilation.

Storage: Keep containers dry and tightly closed to avoid moisture absorption and contamination. Keep in a dry, cool place.

SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection: No personal respiratory protective equipment normally required when handling the product itself. See “Engineering Measures” section below for precautions to be taken when heating or processing this material.

Eye/Face Protection: Safety glasses with side-shields.

Hand Protection: Protective gloves.

Skin and Body Protection: Long sleeved clothing.

Additional Protective Measures: Safety shoes.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Engineering Measures: Heat only in areas with appropriate exhaust ventilation. Adequate ventilation and/or appropriate respirator protection may also be necessary to minimize employee exposure to processing vapors.

Exposure limit(s)

Components	Value	Exposure Time	Exposure Type	List
Kaolin	5 mg/m3	PEL:	Respirable fraction.	OSHA Z1
	15 mg/m3	PEL:	Total dust.	OSHA Z1
	2 mg/m3	Time Weighted Average (TWA)	Respirable fraction.	ACGIH
Petroleum distillates, hydro treated heavy naphthenic	500 ppm 2,000 mg/m3	PEL:	Vapor.	OSHA Z1
Silica, amorphous	20 mppcf	PEL:	Total dust.	OSHA
	20 mppcf	PEL:	Total dust.	Z3
Talc	2mg/m3	Time Weighted Average (TWA)	Respirable fraction.	ACGIH
Titanium dioxide	10 mg/m3	Time Weighted Average (TWA)		ACGIH
	15 mg/m3	PEL:	Total dust.	OSHA Z1
Zinc oxide	10 mg/m3	Time Weighted Average (TWA)	Total dust. As Zn	ACGIH
	5 mg/m3	PEL:	Respirable dust. As Zn	OSHA Z1
	15 mg/m3	PEL:	Total dust. As Zn	OSHA Z1

	2 mg/m ³	Time Weighted Average (TWA)	Respirable fraction	ACGIH
--	---------------------	-----------------------------	---------------------	-------

	10 mg/m ³	Short Term Exposure Limit (STEL)	Respirable fraction.	ACGIH
--	----------------------	----------------------------------	----------------------	-------

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Form: Solid
 Appearance: Pellets, slabs, sheets
 Color: ANY
 Odor: none
 Melting point/range: Not determined
 Boiling Point: Not applicable
 Water solubility: Insoluble

Evaporation rate: Not applicable
 Specific Gravity: Not determined
 Bulk Density: Not established
 Vapor Pressure: Not applicable
 Vapor Density: Not applicable
 pH: Not applicable

SECTION 10 – STABILITY AND REACTIVITY

Stability: Stable

Hazardous Polymerization: Will not occur

Conditions to avoid: Keep away from oxidizing agents and open flame. To avoid thermal decomposition, do not overheat.

Incompatible Materials: Incompatible with strong acids and oxidizing agents.

Hazardous decomposition products: Carbon dioxide (CO₂), carbon monoxide (CO), oxides of nitrogen (NO_x), other hazardous materials, and smoke are all possible.

SECTION 11 – TOXICOLOGICAL INFORMATION

This mixture has not been evaluated as a whole for health effects. Exposure effects listed are based on existing health data for the individual components which comprise the mixture.

Toxicity Overview

This product contains the following components which in their pure form have the following characteristics:

CAS – No.	Chemical Name	Effect	Target Organ
7631-86-9	Silica, amorphous	Irritant	Eyes, Respirator system.
13463-67-7	Titanium dioxide	Systemic effects	Respiratory system.
1314-13-2	Zinc oxide	Systemic effects	Respiratory system.
64742-52-5	Petroleum distillates, hydro treated heavy naphthenic	Irritant	Eyes, Skin.
1332-58-7	Kaolin	Systemic effects	Respirator system, digestive system.
14807-96-6	Talc	Systemic effects	Eyes, Respirator system, Skin.

LC50 / LD50

This product contains the following components which, in their pure form, have the following toxicity data:

CAS-No.	Chemical Name	Route	Value	Species
1314-13-2	Zinc oxide	LC50 Oral LD50	2500 mg/m3 7,950 mg/kg	mouse mouse

SECTION 12 – ECOLOGICAL INFORMATION

Persistence and degradability: Not readily biodegradable.

Environmental Toxicity: Chemicals are not readily available as they are bound within the polymer matrix.

Bioaccumulation Potential: Chemicals are not readily available as they are bound within the polymer matrix.

Additional advice: Not applicable

SECTION 13 – DISPOSAL CONSIDERATIONS

Product: Where possible recycling is preferred to disposal or incineration. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

Contaminated packaging: Recycling is preferred when possible. The generator of waste material has the responsibility for proper waste classification, transportation and disposal in accordance with applicable federal, state/provincial and local regulations.

SECTION 14 – TRANSPORT INFORMATION

U.S. DOT Classification: Refer to specific regulation.

ICAO/IATA (air): Refer to specific regulation.

IMO / IMDG (maritime): Refer to specific regulation.

SECTION 15 – REGULATORY INFORMATION

US Regulations:

OSHA Status: Classified as hazardous based on components.

TSCA Status: All components of this product are listed on or exempt from the TSCA Inventory.

US EPA CERCLA Hazardous Substances (40 CFR 302)

Chemical Name	CAS-No.	% in Product	RQ for component	RQ for Mixture/ Product
Tetramethyl thiuram disulfide (Thiram)	137-26-8	0.2323	010 lbs.	4,305 lb.

--	--	--	--	--

California Proposition 65: WARNING! This product contains a chemical known to the State of California to cause cancer.

SARA Title III Section 302 Extremely Hazardous Substance Not applicable

SARA Title III Section 313 Toxic Chemicals:

Chemical Name	CAS-No.	Weight %
ZINC COMPOUNDS	1314-13-2	1.17
	Not Available	0.00

Canadian Regulations:

National Pollutant Release Inventory (NPRI).

Chemical Name	CAS-No.	Weight %	NPRI ID#
Zinc oxide	1314-13-2	1.17	241

WHMIS Classification: D2A

WHMIS Ingredient Disclosure List

CAS-No.
7631-86-9
14807-96-6
1314-13-2

DSL: All components of this product are on the Canadian Domestic Substances List (DSL) or are exempt.

National Inventories:

Australia AICS: Not determined

China IECS: Not determined

Europe EINECS: Not determined

Japan ENCS: Not determined

Korea KECI: Not determined

Philippines PICCS: Not determined

SECTION 16 – OTHER INFORMATION

This information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material when used in combination with any other materials and/or in any particular process or processing conditions.