



SAFETY DATA SHEET

according to 1907/2006/EC, Article 31

Revision: May 04, 2016

Version 2.0

1. PRODUCT AND COMPANY IDENTIFICATION

Production Name :

PD0101,PF0107,PF0110,PF0301,PF0105,PI0106, SE0301,SD0101,SF5101, SG0108, SG1503, SH1401, SI0103,SI0104,SI1202,SI1203 (natural color or pigmented)

Product Description : Polypropylene Homopolymers /Copolymers Plus Fillers

Manufactures :

LCY Chemical Corp.

Plant Site

No. 2, Jingjian Road, Dashe District,
Kaohsiung City 81567, Taiwan

Taipei Office

3F, 85, Sec. 4, Bade Road, Taipei 105, Taiwan

Phone Numbers

24 Hr. Emergency : (886) 7-351 3211

Emergency : (886) 2-2528 8895

2. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: White or colored solid pellets

POTENTIAL HEALTH EFFECTS

EYES: Dust and process vapors may irritate eyes.

SKIN: Exposure to molten resin may cause thermal burns.

INGESTION: Not Applicable

INHALATION: Dust and process vapors may be irritating to the nose, throat and respiratory tract.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Irritation or redness.

SKIN: Not Applicable

INGESTION: Not Applicable

INHALATION: Irritation of the nose, throat and respiratory tract.

ACUTE TOXICITY:

Dust and process vapors may cause eye and respiratory tract irritation.



CHRONIC:

None Known

CARCINOGENICITY:

This product may contains carbon black which has been identified as a Group 2B possible carcinogen by IARC.

MUTAGENICITY:

None Known

REPRODUCTIVE TOXICTY

REPRODUCTIVE EFFECTS: None Known

TERATOGENIC EFFECTS: None Known

MEDICAL CONDITIONS AGGRAVATED: None Known

ROUTES OF ENTRY: Eye, Inhalation

TARGET ORGAN STATEMENT: None Known

IRRITANCY: Exposure to dust and process vapors may cause eye and respiratory tract irritation.

SENSITIZATION: None Known

WARNING CAUTION LABELS: Burn Risk - Avoid contact with molten resin.

Explosion Risk - Prevent accumulation of dust particles.

Slipping Risk - Keep walking surfaces free of spilled material.

Vapor Risk - Provide ventilation to avoid exposure to process vapors.

COMMENTS HEALTH: None

HEALTH HAZARDS: Process vapors may cause eye and respiratory tract irritation. Contains carbon black which has been identified as a Group 2B possible carcinogen by IARC.

PHYSICAL HAZARDS: Spilled material may present a slipping hazard.

Exposure to molten resin may cause thermal burns.



3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>ingredients</u>	<u>Wt%</u>	<u>CAS#.</u>
polypropylene	0-95	9003-07-0
also may contain,		
propylene ethylene copolymer	0-95	9010-79-1
and/or		
fillers, such as	0-50	
ethylene butene copolymer	0-50	25087-34-7
ethylene hexene copolymer	0-50	25213-02-9
ethylene octene copolymer	0-50	26221-73-8
talc	0-50	14807-96-6
calcium carbonate	0-50	00471-34-1

4. FIRST AID MEASURES

EYES: Flush eyes with water for 15 minutes. Get medical attention.

SKIN: Wash with soap and water. Get medical attention if irritation develops or persists. Molten Resin: If molten material comes in contact with the skin, cool under ice water or a running stream of water. DO NOT attempt to remove the material from the skin. Removal could result in severe tissue damage. Get medical attention.

INGESTION: Not Applicable

INHALATION: Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

ANTIDOTES: Not Applicable

NOTES TO PHYSICIAN: None

ADDITIONAL INFORMATION: None

5. FIRE FIGHTING MEASURES

FLASHPOINT AND METHOD: Not Determined

FLAMMABLE LIMITS: Not Yet Determined

AUTOIGNITION TEMPERATURE: Not Determined

EXTINGUISHING MEDIA: Use foam, carbon dioxide, or water spray when fighting fires involving this material.

HAZARDOUS COMBUSTION PRODUCTS: Carbon dioxide, carbon monoxide, antimony compounds, bromine compounds, nitrogen oxides, unidentified organic compounds.

EXPLOSION HAZARDS: Product as shipped is not a combustible dust. However, a combustible concentration of dust may occur when fines are suspended in air.

FIRE FIGHTING PROCEDURES: Standard procedures for Class A fires.

FIRE FIGHTING EQUIPMENT: As in any fire, wear self-contained pressure demand breathing apparatus,



(MSHA/NIOSH approved or equivalent) and full protective gear.

SENSITIVE TO STATIC DISCHARGE: Static discharge could be an ignition source for a combustible concentration of dust.

SENSITIVITY TO IMPACT: Not Applicable

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILL:

Sweep up material and place in a disposal container.

LARGE SPILL:

Vacuum or sweep up material and place in a disposal container.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Keep pellets out of waterways.

LAND SPILL: Not yet Determined

AIR SPILL: Not yet Determined

GENERAL PROCEDURES: Vacuum or sweep up material and place in a disposal container.

RELEASE NOTES: None

SPECIAL PROTECTIVE EQUIPMENT: None

7. HANDLING AND STORAGE

GENERAL PROCEDURES: Keep away from heat, sparks and flame.

HANDLING:

Ground and bond containers when transferring material.

STORAGE:

This product may react with strong oxidizing agents and should not be stored near such materials. Store boxes and bags of material in areas protected with automatic sprinklers.

STORAGE TEMPERATURE: 60°C (140°F) maximum

LOADING TEMPERATURE: Not Determined

LOADING/UNLOADING VISCOSITY: Not Determined

STORAGE PRESSURE: Not Determined

STORAGE PRESSURE: Not yet Determined



STORAGE TEMPERATURE: Store in a cool place below 140 F, 60 C.

LOADING TEMPERATURE NOTES: Not yet Determined

SHELF LIFE: Not yet Determined

SPECIAL SENSITIVITY: Not yet Determined

ELECTROSTATIC ACCUMULATION HAZARD: Material may accumulate static charges during transfers.
Ground and bond containers when transferring material.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

ENGINEERING CONTROLS: Provide adequate room ventilation.

Provide adequate ventilation at the extruder to minimize exposure to process vapors.

Eliminate ignition sources during repair and maintenance operations.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Wear safety glasses with side shields (or goggles).

SKIN: When handling or processing resins at elevated temperatures or in a molten state, wear protective clothing over the skin to prevent contact. Wear suitable gloves.

RESPIRATORY: A respiratory protection program that meets OSHA 1910.134, ANSI Z88.2 and/or CSA Z94.4-93 requirements must be followed whenever workplace conditions warrant use of a respirator.

PROTECTIVE CLOTHING: When handling or processing resins at elevated temperatures or in a molten state, wear protective clothing over the skin to prevent contact.

WORK HYGIENIC PRACTICES: Not Established

OTHER USE PRECAUTIONS: Eyewash fountains and safety showers should be easily accessible.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid

ODOR: Slight waxy odor

APPEARANCE: Pellet

COLOR: Transparent to colored

PERCENT VOLATILE: Not Determined

FREEZING POINT: Not Applicable

MELTING POINT: Not Determined

DENSITY: Not Determined

SPECIFIC GRAVITY: 0.88 to 1.32

VISCOSITY: Not Available

MOLECULAR WEIGHT: Not Available



(VOC) NOTES: Not yet Determined

COMMENTS:

PHYSICAL STATE: None

VAPOR PRESSURE: Not Applicable

VAPOR DENSITY: Not Applicable

BOILING POINT: Not Applicable

WATER SOLUBILITY: Negligible

EVAPORATION RATE: Not Applicable

10. STABILITY AND REACTIVITY

STABLE: YES

HAZARDOUS POLYMERIZATION: NO

CONDITIONS TO AVOID: Keep away from heat, sparks and flame.

POLYMERIZATION: Product will not undergo polymerization.

HAZARDOUS DECOMPOSITION PRODUCTS: At elevated temperatures the material will begin to decompose, producing fumes that can contain carbon dioxide, carbon monoxide, antimony compounds, bromine compounds, nitrogen oxides, unidentified organic compounds.

INCOMPATIBLE MATERIALS: Oxidizing materials.

11. TOXICOLOGICAL INFORMATION

COMMENTS: Not Available

12. ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Not Available

ECOTOXICOLOGICAL INFORMATION: Not Available

DISTRIBUTION: Not Available

CHEMICAL FATE INFORMATION: Not readily biodegradeable..

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: (1) Recycle (reprocess). (2) Incineration including energy recovery of waste material in a permitted facility in accordance with local, state or provincial and federal regulations. (3) Landfilling in a licensed facility in accordance with local, state or provincial and federal regulations.

RCRA HAZARD CLASS: This product is not judged to be a hazardous waste by any local, state or federal regulations; however, it may be listed as industrial waste in some states or provinces.

This product is not listed in the U.S. federal hazardous waste regulations, 40 CFR 261.33 paragraphs (e) or (f), i.e., chemical products that are considered hazardous if they become wastes. It does not exhibit any of the



hazardous characteristics listed in 40 CFR 261 Subpart C. State or local hazardous waste regulations may apply if different from the federal.

14. TRANSPORT INFORMATION

SPECIAL SHIPPING NOTES: This product is not regulated by DOT, IMO, IATA, Canadian TDG and associated regulations, ADR or RID.

15. REGULATORY INFORMATION

UNITED STATES

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All ingredients in this product are in compliance with TSCA.

CLEAN WATER ACT: This product is regulated under EPA's Clean Water Act/NPDES rules as "floating material". In addition, this product is considered "significant material" under the EPA's storm water permit rules.

CANADA

WHMIS (WORKER HAZARDOUS MATERIALS INFORMATION SYSTEM): This MSDS meets WHMIS format requirements.

CANADIAN ENVIRONMENTAL PROTECTION ACT: All ingredients in this product are listed under CEPA on the DSL.

STATES WITH SPECIAL REQUIREMENTS

Calcium carbonate	Massachusetts Right To Know List- Present Minnesota Hazardous Substance List- [present] - includes inert or nuisance dust Pennsylvania Right To Know List- Present
Carbon black	Massachusetts Right To Know List- [present] - exempt when encapsulated or if particulates are not present and cannot be substantially generated through use of the product. Minnesota Hazardous Substance List- carcinogen New Jersey Right To Know List- Present Pennsylvania Right To Know List- Present



16. OTHER INFORMATION

MANUFACTURER DISCLAIMER:

Customers and other users should do their own testing before making commercial use of the product to ensure that the product is fit for the intended application and that the product can be used, and any waste material disposed of, safely, properly, and legally based on the customer's or other user's circumstances.

LCY makes no warranties, express or implied, with respect to the product, including (without limitation) warranties of merchantability or fitness for a particular purpose. The customer or other user of the product assumes all risk and liability arising out of the use of the product, whether used alone or in combination with other materials. LCY's liability, if any, for breach of contract, breach of warranty, negligence (including that of LCY) or other tort, strict liability, or any other claim shall not exceed in amount the purchase price of LCY products with respect to which such cause arose. In no event shall LCY be liable for consequential, special, or incidental damages.