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GPH-20

HOMOPOLYMER POLYPROPYLENE

MSDS FACT SHEET

COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS#	EINECS#
Propylene ethylene	>95	9010-79-1	
Stabilizers (trade secret)	<5		

COMMENTS: This product is not considered a hazardous material at temperatures below the melting point as determined by Basell according to the U.S. Occupational Safety and Health Act definitions and regulation, including the Hazard Communication Standard 29 CFR 1910.1200. This product is not considered a controlled substance by Basell according to Canada's WHMIS regulations. Threshold Limit Values (TLV) or Permissible Exposure Limit (PEL) values are not established. This material is not expected to cause physiologic impairment at low concentration. Until a specific TLV is adopted by ACGIH (American Conference of Governmental Hygienists), or an OSHA (Occupational Safety and Health Administration) PEL standard is issued, Basell suggests that this material be treated as a nuisance dust or particulate in accordance with the recommendations of ACGIH.

HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

PHYSICAL APPEARANCE: Translucent to white solid pellets

IMMEDIATE CONCERNS: Spilled material may present a slipping hazard. This product as shipped is not classified as a combustible dust; however, a combustible concentration of dust may occur if fines are suspended in air. Avoid contact with strong oxidizing agents. When working with the material at temperatures above the melting point, the material will begin to decompose producing fumes that can contain carbon dioxide, carbon monoxide, ketones, acrolein, formaldehyde, aldehydes and other unidentified organic compounds that come from the breakdown of the material. Adequate room and extruder ventilation should be provided to minimize exposures.

POTENTIAL HEALTH EFFECTS

EYES: Process vapors may irritate eyes.

SKIN: Exposure to molten resin may cause thermal burns.

INGESTION: Not Applicable

INHALATION: Process vapors may cause respiratory tract irritation.

SIGNS AND SYMPTOMS OF OVEREXPOSURE

EYES: Irritation or redness.

SKIN: Not Applicable

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

SENSITIVITY TO IMPACT: Not Applicable

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: Avoid runoff into storm sewers and ditches which lead to waterways.

SPECIAL PROTECTIVE EQUIPMENT: None

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

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

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.

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

PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Solid
ODOR: Slight waxy odor
APPEARANCE: Pellet
COLOR: Translucent to white
BOILING POINT: Not Applicable
FREEZING POINT: Not Applicable
MELTING POINT: > 120°C (248°F)
SPECIFIC GRAVITY: 0.88 to 0.92

COMMENTS:
PERCENT VOLATILE: < 0.4%
VAPOR PRESSURE: Not Applicable

INGESTION: Not Applicable

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

ACUTE TOXICITY: Process vapors may cause eye and respiratory tract irritation.

CHRONIC: None Known

CARCINOGENICITY: None Known

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 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.

HEALTH HAZARDS: Process vapors may cause eye and respiratory tract irritation.

PHYSICAL HAZARDS: Spilled material may present a slipping hazard. Exposure to molten resin may cause thermal burns.

FIRST AID MEASURES

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

SKIN: 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

FIRE FIGHTING MEASURES

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, ketones, acrolein, formaldehyde, aldehydes, 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.

TSCA (TOXIC SUBSTANCE CONTROL ACT)

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

OSHA HAZARD COMM. RULE: This product is not considered a hazardous material at temperatures below the melting point as determined by Basell according to OSHA definitions.

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 product is not considered a controlled substance under WHMIS. This MSDS meets WHMIS format requirements.

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

EUROPEAN COMMUNITY

EUROPEAN COMMUNITY REGULATORY: All ingredients are in compliance with EINECS/ELINCS.

OTHER INFORMATION

REASON FOR ISSUE: update

APPROVED BY: Richard T. LeNoir TITLE: Safety and Reg. Affairs Specialist

REVISION SUMMARY Revision #: 6 This MSDS replaces the August 07, 2001 MSDS. Any changes in information are as follows: In Section 6 Land Spill Air Spill General Procedures Release Notes In Section 1 Title, Title In Section 5 Auto Ignition (Operator) Lower °F (Group Field)forFlashPointFlashPoint(Operator) In Section 6 Land Spill In Section 7 Special Sensitivity Loading Temperature Notes, (Group Field) for Loading Temperature Shelf Life Special Sensitivity Loading/Unloading Viscosity (Group Field) for Storage Pressure Loading Temperature Notes Storage Temperature Notes In Section 8 Skin Protection Work Hygienic Practices Clothing Protection In Section 9 Volatile Org Comp (VOC)

VAPOR DENSITY: Not Applicable

WATER SOLUBILITY: Negligible

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, ketones, acrolein, formaldehyde, aldehydes, unidentified organic compounds.

INCOMPATIBLE MATERIALS: Oxidizing materials.

TOXICOLOGICAL INFORMATION

GENERAL COMMENTS: None Known

ECOLOGICAL INFORMATION

ENVIRONMENTAL DATA: Not Available

ECOTOXICOLOGICAL INFORMATION: Not Determined

DISTRIBUTION: Not Determined

CHEMICAL FATE INFORMATION: Not readily biodegradeable.

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.

TRANSPORT INFORMATION

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

REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

TITLE III NOTES: This product is not subject to SARA Title III requirements.

Product Description			
PPH-20-.9-NA is a reactor-synthesized, nucleated polypropylene homopolymer with antistat for use in injection molding applications. This resin exhibits good flow characteristics, good mold release properties, excellent rigidity and hardness, fast set-up times, and excellent organoleptics. Typical applications include rigid thin-wall containers, closures, and cutlery.			
General			
Material Status	• Commercial: Active		
Literature [1]	• Technical Datasheet (English)		
Availability	• North America		
Additive	• Antistatic	• Nucleating Agent	
Features	• Antistatic • Good Flow • Good Mold Release	• Good Organoleptic Properties • Homopolymer • Medium Hardness	• Medium Rigidity • Nucleated
Uses	• Closures	• Disposable Tableware	• Thin-walled Containers
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value	Unit	Test Method
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	20	g/10 min	ASTM D1238
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	108		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	3700	psi	ASTM D638
Tensile Elongation (Yield)	20	%	ASTM D638
Flexural Modulus	130000	psi	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F)	0.900	ft·lb/in	ASTM D256
Gardner Impact	12.3	in·lb	ASTM D5420
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	223	°F	ASTM D648
Injection	**Nominal Value**	**Unit**	
Rear Temperature	430	°F	
Middle Temperature	450	°F	
Front Temperature	470	°F	
Nozzle Temperature	470	°F	

Notes

[1] These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

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Revision History
Added to Prospector: January, 2007
Last Updated: 12/22/2008