

722986

Safety Data Sheet

General Purpose Polystyrene
Harmonized System

1. IDENTIFICATION

Product identifier:

Product Name:

Resirene GPPS



Trade Name:

HH 103, HH 104, HH 106, HH 108, HH 112, HF 555, HF 770, HF 777

Chemical Family:

Polymer

Alternative Names

Styrene Homopolymer

Synonyms

GPPS

Relevant identified uses of
the substance

Recommended use (s)

Primarily used in injection molding and extrusion for food packaging,
toys, technical parts and various other articles.

Restrictions on use

None know

Manufacturer Details

Manufacturer name:

Resirene, S.A. de C.V.

Address:

Km. 15.5 Carretera Federal Puebla-Tlaxcala
Xicohtzinco, Tlaxcala 90780, Mexico

Phone Number:

Tel. +52 (222) 223 3101 | 223 3100

Fax. +52 (222) 281 0130

e-mail: safety@resirene.comEmergency Phone
Number:

For Hazardous Materials [or Dangerous Goods] Incident Spill, Leak,
Fire, Exposure, or Accident
Call CHEMTREC Day or Night
Within USA and Canada: 1-800-424-9300
Outside USA and Canada: +1 703-527-3887 (collect calls accepted)

2. HAZARDOUS IDENTIFICATION

EC No 1272/2008:	This product is not classified as dangerous according to Regulation (EC) No 1272/2008
Directive 67/548/EEC:	This product is not classified as dangerous according to EU Directive 67/548/EEC
EC No 1907/2006 EG	This product complies REACH Regulation (EC) No 1907/2006
GHS	Not Classified
Label Elements	Not applicable
Other Hazards	Not applicable

3. COMPOSITION / INFORMATION ON INGREDIENTS

Substance Name	CAS Reg. No.	Weight (%)	CARCINOGEN OR TERATOGENICS
Polystyrene	9003-53-6	>99	NOT
Styrene Monomer	100-42-5	<0.15	NOT

Product contains high molecular weight polymers, and is not expected to be chemically active under normal conditions of handling and processing.

4. FIRST AID MEASURES

Inhalation:	Dust may cause irritation to upper respiratory tract (nose and throat). After inhalation of decomposition products, remove the affected person to a source of fresh air and keep calm. Provide medical aid. Rinse mouth and then drink plenty of water. Remove dentures if any. If difficulties occur: Seek medical attention.
Ingestion:	If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel. Single dose oral toxicity is considered to be extremely low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.
Skin contact:	At ambient temperatures: Essentially nonirritating to skin. Mechanical injury only. Skin absorption is unlikely due to physical properties. Areas affected by molten material should be quickly placed under cold running water. Burns caused by molten material require hospital treatment.

Eye contact:	Flush eyes with plenty of water; mechanical effects only. If irritation develops, seek immediate medical attention.
Note to physician:	No specific treatment. Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Water, dry extinguishing media, foam, carbon dioxide.
Specific hazards:	Under fire conditions polymers decompose. The smoke may contain polymer fragments of varying compositions in addition to unidentified toxic and/or irritating compounds. Hazardous combustion products may include and are not limited to: carbon dioxide, carbon monoxide. Hazardous combustion products may include trace amounts of styrene.
Other flammability information:	Dense smoke is emitted when burned without sufficient oxygen. Mechanical handling can cause formation of dusts. To reduce the potential for dust explosion, do not permit dust to accumulate.
Fire fighting instructions:	Keep people away. Isolate fire area and deny unnecessary entry. Cool surroundings with water to localize fire zone. Hand held carbon dioxide or dry chemical extinguishers may be used for small fires. Soak thoroughly with water to cool and prevent re-ignition.
Special protective equipment:	Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, pants, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.
Further information:	Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	No action shall be taken involving any personal risk or without suitable training. Pellets or beads may present a slipping hazard. Sources of ignition should be kept well clear.
Environmental precautions:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Large spill:	Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container.
Small spill:	Move containers from spill area. Vacuum or sweep up material and place in a designated, labeled waste container.

7. HANDLING AND STORAGE

Handling:	Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Ground all equipment containing material.
Storage:	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. Never stack pallets more than two high to prevent the risk of them falling over.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Personal protective equipment

Respiratory protection:	Breathing protection if dusts are formed. Particle filter Type P1 or FFP1 (low efficiency for solid particles e.g. EN143, 149).
Hand protection:	Use additional heat protection gloves when handling hot molten masses (e.g. of textile or leather).
Eye protection:	Safety glasses with side-shields (frame goggles)
Body protection:	Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit.
General safety and hygiene measures:	Avoid contact of molten material with skin. Avoid inhalation of dusts/mists/vapors. Eye wash fountains and safety showers must be easily accessible. Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Granular solid.
Color:	Transparent
Odor:	Odorless
Melting Point:	220 °C (428 °F)
Flash Point:	Not applicable
Specific Gravity:	1.05 (Water =1)
Solubility in water:	Insoluble

10. STABILITY AND REACTIVITY

Stability:	The product is stable.
Conditions to Avoid:	Avoid extreme heat. Avoid all sources of ignition: heat, sparks and open flame.
Substances to avoid:	Strong oxidizing agents
Hazardous reactions:	The product is chemically stable.
Hazardous Decomposition Products:	Monomers, oxides, gases/vapors, hydrocarbons, cyclic low molecular weight oligomers, Gaseous products of degradation can be given off if the product is greatly overheated.

11. TOXICOLOGICAL INFORMATION

Potential acute health effects:	No known significant effects or critical hazards.
Potential chronic health effects:	No known significant effects or critical hazards.
Mutagenicity:	No known significant effects or critical hazards.
Teratogenicity:	No known significant effects or critical hazards.
Developmental effects:	No known significant effects or critical hazards.

12. ECOLOGICAL INFORMATION

Movement & partitioning:	No bioconcentration is expected because of the high molecular weight (MW>1000). In the terrestrial environment, material is expected to remain in the soil. In the aquatic environment, material will sink and remain in the sediment.
Degradation & persistence:	This water insoluble polymeric solid is expected to be inert in the environment. Surface degradation is expected with exposure to the sunlight. No appreciable biodegradation is expected.
Ecotoxicity:	Not expected to be acutely toxic, but pellets, may mechanically cause adverse effects, if ingested by waterfowl or aquatic life.

13. DISPOSAL CONSIDERATIONS

DISPOSAL: DO NOT DUMP INTO ANY SEWERS, ON THE GROUND OR INTO ANY BODY OF WATER. All disposal methods must be in compliance with all Federal, State/Provincial and local laws and regulations.

Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

RESIRENE, S.A. DE C.V. HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION 3 (Composition/Information on Ingredients).

FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator or other thermal destruction device. As a service to its customers, Resirene can provide names of information resources to help identify waste management companies and other facilities which recycle, reprocess, or manage chemicals or plastics, and that manage used drums.

Resirene's Customer Information Center telephone: +52 (222) 223 3101, or within USA Toll free 1866 372 3470, or within México Toll free 01 800 RESINAS for further details.

14. TRANSPORT INFORMATION

U.S. Department of Transportation (D.O.T.):	This product is not regulated by D.O.T. when shipped domestically by land.
Canadian TDG information:	This product is not regulated by TDG when shipped domestically by land.
European Union:	This product is not regulated.

15. REGULATORY INFORMATION

(Not meant to be all-inclusive—selected regulations represented)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to ensure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See other sections for health and safety information.

E. U. REGULATIONS

European Inventory of Existing Commercial Chemical Substances (EINECS): The components of this product are on the EINECS inventory or are exempt from inventory requirements.

EC Classification and User Label Information: This product is not classified as dangerous according to EC criteria.

U.S. REGULATIONS

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Not to have met any hazard category

TOXIC SUBSTANCES CONTROL ACT (TSCA):

All ingredients are on the TSCA inventory or are not required to be listed on the TSCA inventory.

OSHA HAZARD COMMUNICATION STANDARD:

This product is not a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

CANADIAN REGULATIONS

WHMIS INFORMATION: The Canadian Workplace Hazardous Materials Information System (WHMIS) Classification for this product is: This product is not a "Controlled Product" under WHMIS.

16. OTHER INFORMATION

Date of previous issue: May 2014

Version: 3

Changes made to last version:

- New format according Harmonized System

The information contained in the Material Safety Data Sheet is at the date of its issuance to the best of our knowledge correct according to the data available to us. The information is meant as a guideline for safe use, handling, disposal, storage and transport of products and does not imply any warranty (not implied nor explicitly) or specification. The Supplier shall to the extent permitted by law not be liable for any error or incorrectness in the information attend in this Material Safety Data Sheet. The information relates exclusively to the specified products, which may not be suitable for combination with other materials or use in processes other than those specifically described here.