

Safety Data Sheet

HIGH IMPACT POLYSTYRENE

HARMONIZED SYSTEM



1. PRODUCT IDENTIFICATION / ABOUT THE PRODUCER

Product ID		
Product Name:	Resirene QrPS™	
Trade name:	QrPS™ 25 HI	
Chemical Family:	Thermoplastic Polymer	
Alternative names:	Impact Polystyrene	
Synonym:	HIPS	
Relevant uses identified of the substance:		
Recommended Use:	Thermoplastic resin for extrusion and injection molding.	
Restrictions on Use:	Industrial and professional use.	
Producer Details		
Producer:	Resirene, S.A. de C.V. Carretera Federal Km. 15.5 Puebla-Tlaxcala Xicohtzinco, Tlaxcala 90780, Mexico Tel. +52 (222) 223 3101 Website: www.resirene.com Email: safety@resirene.com	
Emergency telephones:	Tel. +52 (222) 223 3100 (24 hrs);	

2. HAZARDOUS IDENTIFICATION

GHS Rating	Not Classified.
Label Elements	Not applicable.
Other Hazards	Not applicable.
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 with REACH Regulation (EC) No 1907/2006
Emergency Overview	The product is an inert solid in pellet form with no odor. According to OSHA, this product is not considered flammable but will burn if exposed to prolonged flames or high temperatures. Vapors and fumes released during

thermal processing may be irritating to the eyes, skin, and respiratory system. Contact with molten material may cause thermal burns. There is also a risk of slipping.

3. COMPOSITION / INGREDIENTS INFORMATION

Name of Substance	CAS Reg. No.	Weight (%)
Polystyrene	9003-53-6	>90
Polybutadiene	9003-17-2	<10
White Mineral Oil	8042-47-5	<5

This product contains polymers with high molecular weight and is not expected to be chemically active under normal handling and processing conditions. **Contains 25% post-consumer material.**

4. FIRST AID MEASURES

Inhalation:	The dust can irritate the upper respiratory tract (nose and throat). Move the affected person to a ventilated area and remain calm.
Ingestion:	Rinse your mouth and give enough water to drink. Remove any dentures, if any. If difficulties occur, seek medical attention. If the product was swallowed, seek medical help. Do not induce vomiting unless medical personnel instruct it. The toxicity of a single oral dose is considered extremely low—no anticipated risks from ingesting small amounts incidental to normal handling operations.
Skin contact:	At room temperature, the product does not irritate the skin; it causes mechanical damage only. Given the product's physical properties, absorption by the skin is very unlikely. Areas affected by contact with the melted product should be quickly placed under a stream of cold water. Burns caused by contact with melted material should be treated in a hospital.
Eye contact:	Rinse your eyes with plenty of water. Seek immediate medical attention.
Note to doctors:	There is no specific treatment. Contact a poison specialist immediately if ingestion or inhalation is heavy.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Water, dry means for firefighting, foam, carbon dioxide.

Specific risks:	Polymers decompose under fire conditions. The smoke generated may contain polymer fragments of variable composition in addition to unidentified toxic or irritating compounds. Carbon dioxide, carbon monoxide, and small amounts of styrene are products that can be generated during combustion, but they may not necessarily be the only ones.
More safety information:	Very dense smoke is generated when combustion with little oxygen occurs. Mechanical handling of the material can generate dust. Do not allow dust to accumulate to reduce the risk of an explosion caused by dust.
Instructions for fighting fires:	Keep people away. Isolate the fire area and do not allow anyone to enter unless necessary. Cool the surroundings with water to concentrate the fire zone. For small fires, carbon dioxide or extinguishers can be used by hand. Soak well with water to cool and prevent re-ignition.
Special protective equipment:	Wear a self-contained positive pressure breathing apparatus (SCBA) and firefighting protective clothing (including a firefighter helmet, coat, pants, boots, and gloves). If protective equipment is unavailable, fight the fire from a protected location or safe distance.
More information:	Dispose of fire debris and contaminated extinguishing water in compliance with local legislation.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	No special training related to personal risks is required when using this product. Pellets can present a slip-fall hazard, and ignition sources must be kept very clear.
Environmental precautions:	Avoid the dispersion of spilled material and its contact with soil, channels, drains, and sewers. Inform the competent authorities if the product has caused any type of contamination (sewers, canals, soil, or air).
Major spills:	Move containers from the spill area. Try to collect the material from the top of the spill. Avoid entering sewers, water channels, basements, or confined areas. Vacuum or sweep the material and place it in a labeled waste container.
Small spills:	Move containers from the spill area. Vacuum or sweep the material and place it in a labeled waste container.

7. HANDLING AND STORAGE

Handling:	Wear appropriate personal protective equipment (see section 8). Eating, drinking, and smoking should be prohibited entirely in areas where the material is handled, stored, and processed. Workers should wash their hands and face before eating or drinking. Avoid contact with eyes, skin, and clothing. Keep the material in the original container or another compatible container for handling; keep it firmly closed when not used.
-----------	--

	Once the containers have become empty, they may contain product residues that can be dangerous. Do not reuse the container. Land all equipment containing the material.
Storage:	Store following local laws and regulations. Store in the original container protected from sunlight in a dry, cool, well-ventilated area away from incompatible materials (see section 10), food, and water. Keep the container tightly closed and sealed until ready to use. Containers that have been opened should be carefully resealed and face up to prevent spillage. Do not store material in containers that are not labeled. Never stretch more than two pallets.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Exposure guidelines
Occupational exposure limit values:

	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). A purifying respirator is used if the polymer produces vapors or fumes by heating or dust is made from it by grinding.
Hand protection:	Wear gloves for handling hot or melted material (e.g., cotton or leather).
Eye protection:	Safety glasses with side covers (frame goggles).
Body protection:	Body protection (e.g., safety boots, chemical protective suits, etc.) should be selected according to the activity and type of exposure.
General safety and hygiene measures:	Avoid contact of molten material with skin. Avoid inhalation of dust/mists/vapors. Eye wash fountains and safety showers must be easily accessible. Handle under good industrial hygiene and safety practices.

9. PHYSICAL AND CHEMICAL PROPERTIES

Fitness:	Granulated solid.
Colour:	Opaque
Smell:	Odorless
Melt 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 any source of ignition: heat, sparks, flames.

Substances to avoid:	Strong oxidizing agents
Dangerous reactions:	The product is chemically stable.
Hazardous decomposition products:	If the product gets too hot, monomers, oxides, gases/vapors, hydrocarbons, low molecular weight cyclic oligomers, and degradation gases can be released.

11. TOXICOLOGICAL INFORMATION

Toxicity:	No significant or critical effect.
Persistence and degradability:	Product is not readily biodegradable. Not toxic to sewage organisms.
Bioaccumulative Potential:	To avoid bioaccumulation plastic should not be disposed in the sea or in other water environments.
Mobility in soil:	Product is not soluble in water. Substance is heavier than water and sinks. Mobility is low.
Results PBT & vPvB assessment:	According to the revised Annex XIII of regulation (EC) 1907/2006 and (EC) 253/2011: No information available on the product as such

12. ECOLOGICAL INFORMATION

Movement and Partitioning:	Bioconcentration is not expected, given the high molecular weight (MW>1000). In a terrestrial environment, the material will be maintained at ground level. The material will sink and remain in the sediment in an aquatic environment.
Degradation and persistence:	The material is inert in the environment. In the aquatic environment, it will sink and remain settled.
Ecotoxicity:	No toxicity is expected, perhaps mechanical adverse effects on waterfalls and aquatic life.

13. DISPOSAL CONSIDERATIONS

DISPOSAL: DO NOT DISCHARGE INTO ANY SEWER, ON THE GROUND, OR INTO ANY WATER BODY. All disposal methods must comply with Federal, State, and Local laws.

Regulations may vary for each location. The characterization of waste and compliance with applicable laws are the sole responsibility of the person generating the waste.

RESIRENE, S.A. DE C.V. HAS NO CONTROL OVER THE ADMINISTRATION PRACTICES OR PRODUCTION PROCESSES OF THIRD PARTIES WHO USE THE MATERIAL. THE INFORMATION PRESENTED HERE

CORRESPONDS ONLY TO THE PRODUCT SHIPPED UNDER THE CONDITIONS INDICATED IN SECTION 3 OF THIS DOCUMENT.

HANDLING OF UNUSED/UNCONTAMINATED MATERIAL: The best options include shipping the material to recyclers, incinerators, or another thermal destruction device. As a service to its customers, Resirene can provide names of sources of information to help identify waste management companies and others that recycle, reprocess, or handle chemicals or plastics or handle used drums.

Resirene's Customer Information Center telephone number is +52 (222) 223 3101, toll-free within the USA at 1866 372 3470, or toll-free within México at 01 800 RESINAS for further details.

14. TRANSPORTATION INFORMATION

U.S. Department of Transportation (D.O.T.):	This product is not regulated by the D.O.T. when shipped locally by land.
Canadian TDG Information:	This product is not regulated by TDG when shipped locally by land.
European Union:	This product is not regulated.
IATA:	IATA does not control the air transport of this product.

15. REGULATORY INFORMATION

NOTE: The information in this document is given in good faith, based on the information available, and considered reliable at the time of preparation. However, no warranty or security is given about the information or products described herein. Legal requirements are subject to change and may differ from place to place; the buyer is responsible for ensuring that its activities comply with Federal, State, or Local laws.

Polymer	TSCA Inventory: listed; EPA flags XU. TSCA HPVC: not listed. Carcinogen Status: IARC Rating: Group 3. OSHA Carcinogen: not listed. NTP Rating: not listed.
Styrene	TSCA Inventory: listed. TSCA HPVC: not listed. Carcinogen Status: IARC Rating: Group 2A. OSHA Carcinogen: not listed. NTP Rating: listed.

	<p>Clean Air Act: Hazardous Air Pollutants: yes. SOCMI Chemical: yes. Clean Water Act: Hazardous Substances: RQ 1000 lbs. Other Environmental Laws: CERCLA: RQ 1000 lbs. RCRA Groundwater Monitoring: Methods 8020, 8240 / PQL 1, 5 SARA Title III Section 313, Toxic Release: Conc. 0.1% / Threshold Standard NIOSH Recommendations: Occupational Health Guideline: 0571</p>
--	---

E. U. REGULATIONS

European Inventory of Existing Commercial Chemical Substances (EINECS): This product's components are either 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

California Proposition 65:

THIS PRODUCT(S) CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

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 not a "Controlled Product" under WHMIS.

16. OTHER INFORMATION

Previous Document Date: January 2023

Version: 6.5

HMIS Classification:

Health: 1 Fire: 1 Physical Risk: 0

*Hazard scale: 0 = Minimum 1 = Light 2 = Moderate 3 = Serious 4 = Severe * = Chronic Risk*

NFPA Rating:

Health: 1 Fire: 1 Physical Risk: 0

Risk Scale: 0 = Minimum 1 = Light 2 = Moderate 3 = Serious 4 = Severe

The information contained in this safety sheet at the time of its issuance is correct according to the information available. The information is understood as a guide for the use, handling, disposal, storage, and transport of the products and does not imply any guarantee (implicit or explicit). To the extent permitted by law, the provider is not responsible for any errors or inaccuracies in the information published in this Safety Data Sheet. The information relates exclusively to the products mentioned, which may not be suitable for combination with other materials or use in processes other than those described herein.