



國亨化學股份有限公司

GPPC Chemical Corporation

Safety Data sheet

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1. Product & Manufacturer's Information

Product Name	HIPS Plastic: PS-302,PS-350,PS-350K,B690,PS-350HF,PS-350S,PS-316,PS-333
Manufacturer	GPPC Chemical Corporation
Address	No. 66, Chang-Hsin Road, Lu-Chu District, Kaohsiung, Taiwan, R.O.C.
Emergency TEL	886-7-696-7135, Customer Service: 886-2-2175-4567 ext.4541
Emergency FAX	886-7-696-1748, Customer Service: 886-2-2545-8760

2.Hazards Identification

Usage Overview	This product is a kind of general and popular plastic. And HIPS plastic is known to serve widely as housings/parts of electronics/household appliances after processed. In proper use, it is not expected to present any unusual hazard.
Hazardous Effect	no special hazardous effect to health and environment

3. Material Identification & Ingredients

HIPS Plastic	High Impact Polystyrene Plastic (Styrene-Butadiene Copolymer)
CAS Registry No.	9003-55-8
Chemical Formula	(C ₈ H ₈) _n
Content	> 96%
Others	Lubricants and Antioxidants (less than 4%) NO harmful impurities

4.First Aid Measures

Eye Contact	Flush eyes thoroughly with running water immediately. Seek medical advice if discomfort persists.
Skin Contact	No emergency care anticipated. Wash skin with soap and water immediately. Remove contaminated clothing..
Ingestion	and seek medical advice.
Inhalation	In case of breathing, obtain medical attention. If not breathing, give artificial respiration. In case of inhaling dense smoke, move the person to fresh air immediately. If necessary, apply artificial respiration and seek medical attention immediately.

5.Fire & Explosion Hazard Data

Flammability	UL 94 HB (1/16") (File No. 115332)
TLV	Not available
Extinguishing Media	water and extinguish media
Special Fire Fighting Procedure	Cool it with water spray. In closed warehouse, provide fire fighter with self-contained breathing apparatus in positive mode.
Usual Fire and Explosion Hazards	Irritating gases and dense smoke

6.Spill & Leak Procedures

Personal Precaution	If gas and/or mist is generated by heating, spraying and etc., wear an organic vapor respirator with a mist filter.
Environment	Reuse or transfer such concerned product to approved disposal areas. Observe all federal, state or local regulation upon disposition.
Cleaning	Sweep, use vacuum cleaner or shovel into intact packaging for reuse or waste disposal.



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7. Handling & Storage

Handling Precaution	Keep packing sacks (at 25 kg or 1 m.t.) tightly closed to prevent contamination. Avoid dust formation.
Storage Precaution	Store in a dry place. Keep out of strong sunlight. Keep away from fire, flame and strong oxidizing agent. Avoid packing sacks from getting wet.

8.Exposure Controls & Personal Protection

Respiratory Protection	chemical protect respirator
Hand Protection	protective gloves
Eye Protection	safety goggles
Skin Protection	Wear protective clothing such as long sleeves to minimize skin contact.

9. Physical & Chemical properties

Appearance	white and opaque pellet
Physical State	solid, cylindrical pellet at 3 mm x 3 mm diameter
Color	white
Odor	None
Specific Gravity	1.04 (water=1)
Solubility	None (in water)
Flash Point	350°C
Combustion Temp.	490°C
Solubility in water	insoluble
Solubility in other solvent	soluble in THF, DMF, acetone and other analogous solvents

10.Reactivity Data

Stability	stable under normal condition
Storage Condition	Avoid fire and heat.
Incompatibility	normally unreactive
Hazardous Decomposition	Not applicable
Combustion Heat	4.16×10^7 J/kg (or 9930 Kcal/kg)
Combustion Product	Burning can produce oxides of carbon and soot.

11.Toxicological Information

Swallowing	Treat symptomatically. May induce vomiting. It is not expected to be toxic by ingestion.
Skin Absorption	unlikely due to physical property
Inhalation	unlikely due to physical state
Skin Contact	Essentially nonirritating to skin but mechanical injury.
Eye Contact	Solid or dust may cause irritating or injury due to mechanical action.

12.Ecological Information

General	This product is very stable in water, and can be mechanically separated from water. Moreover, such HIPS plastic can be also easily separated from stone and soil.
Restriction	Do not dispose this product to river, lake, sea and etc.. Because HIPS plastic's density is higher than water and seawater's. Therefore, sea creatures, birds, land animals may not eat such indigestive material.



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13. Disposal Considerations

General	The best way to treat such HIPS plastic could be easily reused/regenerated/recycled because of its thermoplastic property. Dispose should not be the proper way if the above ways are available.
Disposal	Incineration is probably the proper way of disposal. Landfilling is a kind of disposal way.
Caution	Insufficient combustion may cause some toxic gas such as styrene monomer and/or carbon monoxide.

14. Transportation Information

ADR/RID

14.1 UN number	Not applicable
14.2 UN proper shipping name	proper shipping name : NOT REGULATED
14.3 Transport hazard class(es)	Not applicable
14.4 Packing Group	Not applicable
14.5 Environmental hazards	Not considered environmentally hazardous based on available data
14.6 Special precautions for user	Special Provisions: no data available Hazard identification No: no data available

ADNR/ADN

14.1 UN number	Not applicable
14.2 UN proper shipping name	Proper Shipping Name: NOT REGULATED
14.3 Transport hazard class(es)	Not applicable
14.4 Packing Group	Not applicable
14.5 Environmental hazards	Not considered environmentally hazardous based on available data
14.6 Special precautions for user	no data available

IMDG

14.1 UN number	Not applicable
14.2 UN proper shipping name	Proper Shipping Name: NOT REGULATED
14.3 Transport hazard class(es)	Not applicable
14.4 Packing Group	Not applicable
14.5 Environmental hazards	Not considered environmentally hazardous based on available data
14.6 Special precautions for user	EMS Number: Not applicable
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

ICAO/IATA

14.1 UN number	Not applicable
14.2 UN proper shipping name	Proper Shipping Name: NOT REGULATED
14.3 Transport hazard class(es)	Not applicable
14.4 Packing Group	Not applicable
14.5 Environmental hazards	Not considered environmentally hazardous based on available data
14.6 Special precautions for user	no data available

15. Regulatory Information

Superfund Amendments and Reauthorization Act of 1986 Title III	None
EPA Hazard Categories (SARA 311, 312)	None



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16. Other Information

General	This product should be handled, stored and used in accordance with the generally accepted industrial hygiene practices and in conformity with all the applicable legal regulations. What such information provided herein is based on the knowledge possessed at this present time. It should not be constructed as guaranteeing specific property.
Website	Some other information may be consulted from the website -- www.gppc.com.tw
E-mail Address	Some representative may be contacted by E-mail -- su210@gppc.com.tw ; laura@gppc.com.tw

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