Taita Chemical Company, Limited / KAOHSIUNG BRANCH

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TAITAREX
GPPS/HIPS Resin

SAFETY DATA SHEET

DATE ISSUED: 2004/11/03 DATE REVISED: 2026/01/26 REV. No.: No.013

1. PRODUCT INFORMATION ：

PRODUCT GRADE	GPPS-861 N/ B /O/ F, GPPS-866 N/ B/NM/BM, GPPS-808, GPPS-818 GPPS-818K / L/M/W, GPPS-751S
SUPPLIER	TAITA CHEMICAL CO. LTD., / KAOHSIUNG BRANCH No. 3, Jianji St. Qianzhen District, Kaohsiung City 80672, Taiwan
TRADE NAME	TAITAREX GPPS
CHEMICAL NAME	Styrene Homopolymer.
SYNONYMS	GPPS (General Purpose Polystyrene)
USED FOR	Single or mixture used for the production of injection and extrusion

2. HAZARD IDENTIFICATION ：

GHS classification

This product is not hazardous under United Nations GHS Parts 2,3 and 4.

Most Important Hazards	None
Adverse Human Health Effects	None
Environmental Effects	None
Physical and Chemical Hazards	None

3. COMPOSITION/INFORMATION ON INGREDIENTS ：

Substance or Preparation	Substance
Content	>97 % (Lubricant≦3 %)
Formula	$(C_8H_8)m$
CAS NO.	9003-53-6
Impurities Contributing to Hazards	None

4. FIRST AID MEASURES ：

Inhalation	In case of gases evolving from melted resin, move subject to fresh air. Treat symptomatically.
Skin Contact	In case of pellets or powder, wash with water. In case of melted resin, wash affected skin area and clothing with plenty of soap and water, seek medical advice.
Eye Contact	In case of pellets or powder, flush with plenty of water for at least 15 minutes. Seek

	medical advice if any dust particles still remain. In case of gases evolving from melted resin of high temperature, flush with plenty of water for at least 15 minutes. Seek medical advice if necessary.
Ingestion	Induce vomiting. Rinse mouth with water. Seek medical advice if necessary.

5. FIRE-FIGHTING MEASURES ：

Extinguishing Media	Water and various kinds of fire-extinguishers may be used.
Special Fire-Fighting Procedure	Self contained breathing apparatus.
Fire and Explosion Hazards	None.

6. ACCIDENTAL RELEASE MEASURES ：

Methods for Cleaning Up	Recovery if not contaminated or disposal.
Personal Precautions	Spilled pellets or powder on ground may cause slipping.
Environmental Precautions	Gather pellets and powder thoroughly to avoid environment water pollution.

7. HANDLING AND STORAGE ：

Handling	Keep away from fire and sources of ignition. Maintain good housekeeping standards to prevent accumulation of dust. To avoid dust explosion resulting from the existence of static electricity build-up, electrostatics eliminators and grounding such as air transferring pipes, electrically conductive bag filters and hoppers should be fixed to equipment.
Storage	Keep the materials in a cool dry place. Protect from direct sunlight, rain and violent temperature fluctuation. Store in a fire inhibited area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION ：

Threshold Limit Value	Not determined.
Ventilation	Necessary to exclude dust, fumes and gas.

PERSONAL PROTECTION：

Eye	Wear safety glasses for general purpose. Wear chemical goggles for cleaning molding machines.
Skin	When handling pellets avoid prolonged or repeated contact with skin, gloves are not especially needed, but when handing molten resins, wear gloves with good thermal insulation. Ordinary work clothing will do, but in the case of handling molten resins, wear laboratory clothing with long sleeves.
Respiratory	Wear masks for cleaning molding machines.

9. PHYSICAL AND CHEMICAL PROPERTIES ：

Appearance	Transparent (colorless)
Melting Temperature	Softening above 90℃
Solubility	Insoluble in water.
Specific Gravity	1.03 ~ 1.10

10. STABILITY AND REACTIVITY ：

Flammability	Yes
Flash Point	350°C
Autoignition Temperature	490°C
Reactivity with Water	No
Stability	Stable and non-reactive under normal handling and storage conditions
Dust Explosion	Possible if powder exists
	Explosion data for powder (<145 mesh)
	Lower explosion limit 15 g / m^3
	Minimum ignition energy 40 mJ
	Maximum explosion pressure 5.3×10^5 Pa
	Maximum pressure increase rate 3.4×10^6 Pa/S
Thermal Decomposition Gases	CO., CO_2, SM and SM dimer
Combustion Energy	4.16×10^7 j / kg (9930 Kcal / kg)

11. TOXICOLOGICAL INFORMATION ：

Irritation	Fumes or vapors generated from decomposing resin may irritate eyes.
Acute oral toxicity (LD50)	Not determined.
Mutagenicity	Not determined.

12. ECOLOGICAL INFORMATION ：

For the safety of ocean species and birds, disposal of the waste to the ocean and water courses is inhibited.

13. DISPOSAL CONSIDERATIONS ：

Controlled incineration or landfill according to local, state or national laws and regulations concerning health and pollution. Inadequate incineration may generate toxic gases such as CO and SM.

14. TRANSPORT 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

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

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

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

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 ：

1.Occupational Safety and Health Action. (Taiwan)

2.Standards of Permissible Exposure Limits of Airborne Hazardous Substances in Workplace (Taiwan)

3.Criteria Governing Methods of and Facilities for Storage, Clearance and Treatment of Industrial Wastes (Taiwan)

All disposal methods must be in compliance with every local government and local laws and regulations.

Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator.

16. OTHER INFORMATION ：

Tabulation：Taita Chemical Company, Limited. R & D Dept.

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