



MATERIAL SAFETY DATA SHEET
(in accordance with EC Directives 91/155/EWG)

Page : 1 / 4
Revision : 001
Rev. Date : Sept 2014

4TECH® Polyphenylene Oxide/Polystyrene (PPO)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identification:

Trade Name : 4TECH
Chemical Designation : Polyphenylene Oxide / High Impact Polystyrene

Company Identification:

Manufacturer/Supplier : 4PLAS LTD
7 Aldin Way, Hinckley, Leicestershire. LE10 0GE. UK
Telephone : +44 (0)870 446 0424
Fax : +44 (0)870 446 0434
Emergency Telephone : +44 (0)870 446 0424
E-mail : enquiries@4plas.com

2. COMPOSITION/INFORMATION ON INGREDIENTS

Description : Base Resin is Polyphenylene Oxide / High Impact Polystyrene

Contents :

CAS NO.	MATERIAL DESIGNATION	%	RISK PHRASES*
25134-01-4	Poly(2,6-dimethyl-1,4- phenylene oxide)	---	---
9003-53-6	Polystyrene	---	---
---	Additives	---	---
---	Colourants	---	---

*: Expanded meanings of risk phrases are given in Section 16.

3. HAZARDS IDENTIFICATION

Identification of Risk : None

Particular Risks to Humans and Environment

: No particular hazards can be mentioned if handled as recommended.

4. FIRST AID PROCEDURES

Contact with Skin : Burns on the skin caused by molten product must be medically treated.

Contact with Eyes : Immediately flush eyes with plenty of water for at least 10 minutes and if discomfort occurs, get medical attention.

Inhalation : Dust particles ground from the product can cause respiratory system irritation. Consult a physician if discomfort occurs.

Ingestion : Get medical attention if discomfort occurs.



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Page : 2 / 4
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5. FIRE FIGHTING PROCEDURES

- Suitable Extinguishers** : Water spray, Foam, CO₂, Dry extinguishing media.
- Combustion Gases** : CO, CO₂, Aldehydes and Tetrahydrofurane.
- Special Protective Equipment** : Full protective clothing and self-contained breathing apparatus.
- Additional Information** : Avoid breathing fumes. Proceed as described in Section 4.

6. ACCIDENTAL RELEASE MEASURES

- Procedure for Cleaning/Picking Up** : Sweep up the spills and place the gathered product in a proper container for recycling or disposal.
Pay heavy attention on the risk of slipping on spilled granules/product!

7. HANDLING AND STORAGE

Handling;

- Information for Safe Handling** : Avoid dust accumulation and take precautionary measures against static discharges.
Keep away from heat and ignition sources.
Keep away from oxidizing agents and strong acids.

Storage;

- Requirements on Storage Space and Receptacles** : Store in original well closed packaging in a cool and dry place.
Prevent exposure of the product to direct sunlight.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering Controls** : Use good ground connection.
Provide good ventilation. Use good exhauster system in extrusion/moulding.
Respect the handling and storage conditions.

- Components to be Observed** : ---

Personal Protective Equipment;

- Respiratory Equipment** : Use self contained breathing apparatus
- Eye Protection** : Use safety glasses
- Skin Protection** : Wear protective clothing and gloves
- Other Protection and Hygiene Procedures** : ---



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Page : 3 / 4
Revision : 001
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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance;

Form	: Granules
Colour	: Various
Odour	: Odourless
Solubility in water at 15°C	: Insoluble
Melting point	: This product does not exhibit a sharp melting point, but softens gradually over a wide temperature range.
Density	: -
Volatile Content	: Negligible

10. STABILITY AND REACTIVITY

Chemical Stability	: Stable at storage conditions. Decomposes above 300°C.
Incompatible Chemicals	: Strong oxidizing agents and strong acids.
Hazardous Decomposition Products	: Consider combustion products mentioned in Section 5.
Hazardous Polymerization	: Will not occur

11. TOXICOLOGICAL INFORMATION

None, if handled and processed as recommended.

12. ECOLOGICAL INFORMATION

Information on Ecological Toxicity	: Ecological data are not available. However, may be considered as inert since insoluble in water.
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13. DISPOSAL CONSIDERATIONS

Waste Disposal Information	: Recycling should be preferred to waste disposal/incineration. Follow local regulations for disposal.
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14. TRANSPORTATION INFORMATION

Land Transport;

ADR/RID/GGVE-Class	: ---
Number/Letter	: ---
UN-No	: ---
Hazard-No	: ---
Name	: ---

Sea Transport;

IMDG/GGVSee-Class	: ---
UN-No	: ---
PG	: ---
Page	: ---
EmS	: ---
MFAG	: ---
Marine Pollutant	: ---
Name	: ---



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Page : 4 / 4
Revision : 001
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14. TRANSPORTATION INFORMATION (CONTINUED)

Inland Waterways;

ADN/ADNO-Class : ---
Number/Letter : ---
Category : ---

Air Transport;

ICAO/IATA-Class : ---
UN/ID-No : ---
PB : ---
Page : ---

15. REGULATORY INFORMATION

Identification according to EC Directives : None
Other Regulations : ---

16. OTHER INFORMATION

Risk Phrase Information :---

Further Information :

The information in this Safety Data Sheet are given according to the state of our present knowledge and experience at the time of publication without any warranty. The data is provided as only a guidance and should not be accepted as a contractual quality and design specification. It is strongly recommended for recipients to test the product under their own processing conditions to determine the suitability for the required application and use. Recipients should take the responsibility to follow up-to-date laws and local regulations.

