Product Name	Fortron®		AGHS/EN
MSDS number	87042005	**Revision Date**	Oct.01.2013
Revision Number	1.01	**Issuing date**	Apr.14.2014

1. Identification of the substance/preparation and the company/undertaking

Product Name

Fortron®

The following SDS applies to products described by combinations of the following trade name, product grade and color code listed below.

Product Grade(s):
1115E7, 1115L0, 1115T1, 1120L0, 1120L4, 1130L0, 1130L4, 1131L4, 1131L4 ITT, 1132L4, 1140D8, 1140E7, 1140EC, 1140L0, 1140L4, 1140L4-T, 1140L6, 1140L7, 1141L4, 4184L4, 4184L6, 4332D4, 4332L6, 4665B6, 6150T6, 6160B4, 6162A7, 6165A4, 6165A4-W, 6165A6, 6165A61, 6165D8, 6450A6, CES30, CES30-C, CES50, FX4330T7, ICE 504L, ICE 506L, ICE 716A, ICE 716L, ICE 717F, MT®9115L0, MT®9120L4, MT®9140L4, MT®9140L6, MT®9141L4, MT®9460B4, XGC10, XGC15LW-01

Color Code:
See Section 16 for list of Color Codes

Manufacturer or supplier's details

Ticona Polymer, Inc.
A business of Celanese
8040 Dixie Hwy.
Florence, KY 41042
United States
www.celanese.com

Product Information
info-engineeredmaterials-asia@celanese.com

Emergency telephone number
+(65) 62656917 (Operations Room direct dial)
or fax request to +(65) 62664696 (Facsimile to Operations Room)
or email to posh.er@paccoffshore.com.sg

In China Emergency Number: 86-532-83889090 (NRCC)

Synonyms:
Polymer of p-Dichlorbenzene / Disodium Sulfide Polyphenylene sulfide / PPS

Identified uses
Plastic processing industry.

2. Hazards identification

Statements of Hazard Not a dangerous product according to GHS

3. Composition/Information on ingredients

Chemical characterization Polyphenylene Sulfide /PPS, glass fiber reinforced

Components	CAS-No	Percent %
Glass oxide; Fiberglass continuous filament	65997-17-3	5 - 60

4. First aid measures

Skin
Cool skin rapidly with cold water after contact with molten polymer. Immediate medical attention is required. Do not peel solidified product off the skin.

Eyes
Immediately flush eye(s) with plenty of water. Call a physician if irritation persists.

Inhalation
Move to fresh air in case of accidental inhalation of vapors. Get medical attention immediately if symptoms occur.

Ingestion
If swallowed, do not induce vomiting - seek medical advice.

Notes to physician
This product is essentially inert and nontoxic. However, if it is heated at too high a temperature or if it burns, gases may be released. Gases that may be formed are extremely foul smelling, even at low and relatively nontoxic concentrations. Patients who have been exposed to off-gases may need to have their arterial blood gases and carboxyhemoglobin levels checked. If the carboxyhemoglobin levels are normal, the patients may still have suffered asphyxia from carbon dioxide replacing oxygen if they were exposed in an enclosed space. While it is unlikely that enough hydrogen sulfide would be formed to cause hydrogen sulfide poisoning, the possibility should be considered if the clinical picture is consistent (similar to cyanide toxicity). Sulfur oxides are respiratory tract irritants. Other irritant gases may also have been formed in lesser amounts. If patients may have inhaled high concentrations of irritating fumes, they should be monitored for delayed onset pulmonary edema. The sulfides and mercaptans can cause nausea and headache as a result of their foul odor.

5. Fire-fighting measures

NFPA: **Health:** 1 **Flammability:** 0 **Instability:** 0

Suitable extinguishing media
The product in solution form does not burn. The product will burn only after the water it contains is driven off. For dry polymer, use alcohol resistant foam, carbon dioxide (CO2) or dry chemical.

Special exposure hazards arising from the substance or preparation itself, its combustion products, or released gases
Carbon monoxide
Carbon dioxide (CO2)
Sulfur oxides (SOx)

Special protective equipment for fire-fighters
Wear self-contained breathing apparatus and protective suit.

6. Accidental release measures

Personal precautions
Remove all sources of ignition. Avoid dust formation.

Environmental precautions
No special environmental precautions required.

Methods for cleaning up
Use mechanical handling equipment. Dispose of in accordance with local regulations.

7. Handling and storage

Advice on safe handling
Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Incompatible products
Halogene, strong oxidizing agents, Aromatic solvents

Protection - fire and explosion:
Keep away from heat and sources of ignition.

Material storage
Keep in a dry, cool place.

Incompatible products
Halogene, strong oxidizing agents, Aromatic solvents

Technical measures/Storage conditions
No special storage conditions required. Avoid dust formation.

8. Exposure controls / personal protection

ACGIH Exposure Limits

Components	TWA
Glass oxide; Fiberglass continuous filament	5 mg/m^3 1 fibers / cm3

Exposure controls

Engineering measures

Use only in well-ventilated areas. General or dilution ventilation is frequently insufficient as the sole means of controlling employee exposure. Local ventilation is usually preferred. Provide adequate ventilation. General: May not be adequate as the sole means to control employee exposure.
Local Exhaust: Recommended when appropriate to control employee exposure to dust or process vapors.

Personal protective equipment

General advice

Do not breathe dust. When using, do not eat, drink or smoke.

Hygiene measures	Wash hands before breaks and at the end of workday. When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice.
Respiratory protection	In case of insufficient ventilation wear self-contained respiratory equipment.
Eye protection	safety glasses with side-shields.
Skin protection	Skin protection
Hand protection	Chemicals resistant gloves
Suitable material	Butyl-rubber
Type	Butojet (Company KCL) or comparable article; or refer to glove manufacturer's recommendation
Evaluation	according to EN 374: level 6
Material thickness	approx. 0.3 mm
Break through time	480 min

9. Physical and chemical properties

Appearance

Form	powder, pellets
Odor	slight , specific
Flash point	Not applicable
Melting point/range	280°C
Density	approx 1.3 - 2.1 g/ml @ 20°C
Method	ISO 1183, Process A
Water solubility	insoluble

10. Stability and reactivity

Chemical stability
Stable under normal conditions

Conditions to avoid
Flame. Avoid temperatures above 370 °C / 698 °F. Avoid dust formation. Fine powder may present a dust explosion hazard..

Incompatible Materials
strong oxidizing agents, Halogens, aromatic solvents

Hazardous Combustion or Decomposition Products:
Phenyl sulfides, n-methyl-2-pyrrolidone, dichlorobenzene, phenyl mercaptan, hydrogen sulfide, butyrolactone, mesityl oxide, acetic acid, phenol, formic acid, succinic acid, chlorine, palmitic acid, p-chlorothiophenol, stearic acid, aromatic compounds, chlorinated aromatic compounds, carbonyl sulfide, and sulfur compounds.

11. Toxicological information

Toxicological data are not available. Observe the usual hygienic measures for handling chemicals.

12. Ecological Information

Ecotoxicological data are not available. Do not discharge product unmonitored into the environment.

13. Disposal considerations

Product information
Disposal required in compliance with all waste management related state and local regulations. The choice of the appropriate method of disposal depends on the product composition by the time of disposal as well as the local statutes and possibilities for disposal

Uncleaned empty packaging
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse

14. Transport information

US Department of Transportation	Not regulated
ADR/RID	Not regulated
ADN	Not regulated
ICAO/IATA	Not restricted
IMDG	Not regulated

15. Regulatory information

INTERNATIONAL REGULATIONS
This preparation is not classified as dangerous according to Chinese legislation
This mixture is not classified as dangerous according to Japanese legislation

16. Other information

HMIS: Health: 1 Flammability: 0 Physical Hazard: 0

Color code(s)
14, 40/5819, HD9050, HD9100, HM9100, SA3038, SC3010, SC3027, SC3042SP, SD3002, SD3039, SF3001, SG3005, SG3005SP20, SL3017, SS3030, SY3004, SY3004SP40, SY3023, SY3025

Prepared By
Product Stewardship Department
Celanese

Other Information:
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Changes against the previous version are marked by ***

Sources of key data used to compile the datasheet
Information contained in this safety data sheet is based on Celanese owned data and public sources deemed valid or acceptable.

Further information
This information is based on our present state of knowledge. It shall describe our products regarding safety requirements and shall not be construed as a guarantee or statement of condition and/or quality