

Safety Data Sheet

Printing date 11/05/2014

Reviewed on 06/06/2014

1: Identification

- **1.1 Product identifier**
- **Trade name:** Poly-Fair F26 R
- **Article number:** 1026
- **1.2 Relevant identified uses of the substance or mixture and uses advised against**
- **Sector of Use** Fairing Compound
- **Application of the substance / the mixture** Fairing Compound
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 ATC Formulated Polymers Inc.
 2400 Canadian Street(Suite 303)
 Drummondville, Que , Canada
 J2C 7W3
<http://www.atc-fp.com>
- **Information department:** Jean-Pascal Schroeder
- **1.4 Emergency telephone number:** 001-613-996-6666

2: Hazard(s) identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS07

Acute Tox. 4 H332 Harmful if inhaled.
 Skin Irrit. 2 H315 Causes skin irritation.
 Eye Irrit. 2A H319 Causes serious eye irritation.

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**



Harmful

Harmful by inhalation.



Irritant

Irritating to eyes and skin.

Flammable.

- **Information concerning particular hazards for human and environment:**
 The product has to be labeled due to the calculation procedure of international guidelines.
- **Classification system:**
 The classification was made according to the latest editions of international substances lists, and expanded upon from company and literature data.

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· **2.2 Label elements**

· **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with directives on hazardous materials.

· **Code letter and hazard designation of product:**



Harmful

· **Hazard-determining components of labeling:**

styrene

· **Risk phrases:**

Flammable.

Harmful by inhalation.

Irritating to eyes and skin.

· **Safety phrases:**

Keep out of the reach of children.

Keep container in a well-ventilated place.

Keep away from food, drink and animal feed.

Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).

If swallowed, do not induce vomiting, seek medical advice immediately and show this container or label.

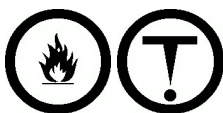
Dispose of this material and its container to hazardous or special waste collection point in accordance with local hazardous regulations.

· **Hazard description:**

· **WHMIS-symbols:**

B2 - Flammable liquid

D2B - Toxic material causing other toxic effects



· **Classification system:**

· **NFPA ratings (scale 0 - 4)**



Health = 2

Fire = 3

Reactivity = 1

· **HMIS-ratings (scale 0 - 4)**



Health = 2

Fire = 3

Reactivity = 1

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

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· **vPvB:** Not applicable.

3: Composition/information on ingredients

· **3.2 Chemical characterization: Mixtures**

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· **Dangerous components:**

100-42-5	styrene	31-36%
65997-17-3	Soda lime borosilicate glass	10-20%
112945-52-5	Silicon dioxide	<10%

4: First-aid measures

· **4.1 Description of first aid measures**

· **General information:**

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

· **After inhalation:**

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist. In case of unconsciousness move patient to fresh air for emergency evacuation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly for 15 minutes .

· **After eye contact:**

Rinse eyes for 15 minutes with water while holding eyelids open. If symptoms persist, consult a doctor.

· **After swallowing:** If symptoms persist consult doctor. Do not induce vomiting .

· **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

· **4.3 Indication of any immediate medical attention and special treatment needed**

No further relevant information available.

5: Fire-fighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:** CO₂ , Dry chemical , Use water fog to cool container.

· **For safety reasons unsuitable extinguishing agents:** Water with full jet

· **5.2 Special hazards arising from the substance or mixture** No further relevant information available.

· **5.3 Advice for firefighters**

· **Protective equipment:**

Self-contained breathing apparatus with full face piece operated in positive pressure.

6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:** Do not allow to enter sewers/surface or ground water.

· **6.3 Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

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Dispose contaminated material as waste according to item 13.
 Ensure adequate ventilation. Ventilation must exhaust contaminants close to the floor.
 Do not flush with water or aqueous cleansing agents
 · **6.4 Reference to other sections**
 See Section 7 for information on safe handling.
 See Section 8 for information on personal protection equipment.
 See Section 13 for disposal information.

7: Handling and storage

- **7.1 Precautions for safe handling**
 Ensure good ventilation/exhaustion at the workplace.
 Do not atomize product without adequate ventilation .
- **Protection against explosions and fires:**
 Keep ignition sources away - Do not smoke - Use explosion proof electrical equipment.
 Protect against electrostatic discharge.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements for storerooms and receptacles:** Keep in a well ventilated storage room .
- **Information for storage in one common storage facility:**
 Large quantities must be kept in a room with sprinklers.
- **Further information for storage conditions:**
 Keep receptacle tightly sealed away from any heat source.
 Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**

· **Components with limit values that require monitoring at the workplace:**

100-42-5 styrene

EL (Canada)	Short-term value: 75 ppm Long-term value: 50 ppm IARC 2B
EV (Canada)	Short-term value: 100 ppm Long-term value: 35 ppm
PEL (USA)	Short-term value: C 200; 600* ppm Long-term value: 100 ppm *5-min peak in any 3 hrs
REL (USA)	Short-term value: 425 mg/m ³ , 100 ppm Long-term value: 215 mg/m ³ , 50 ppm
TLV (USA)	Short-term value: 170 mg/m ³ , 40 ppm Long-term value: 85 mg/m ³ , 20 ppm BEI

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· **8.2 Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Keep away from food and beverages .
- Immediately remove all soiled and contaminated clothing.
- Wash hands before eating and at the end of work shift.
- Avoid contact with the eyes and skin.

· **Breathing equipment:**

In case of brief exposure or low pollution use NIOSH approved respirator with organic chemical cartridges. In case of intensive and long exposure use a self contained breathing apparatus with full face piece operated in positive pressure .

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/the substance/the preparation. Selection of the glove material with consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves** Neoprene gloves

· **Penetration time of glove material**

The exact break through time has to be confirmed by the manufacturer of the protective gloves .

· **Eye protection:**



Tightly sealed goggles

9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

- Form:** Paste
- Color:** Light pink
- Odor:** Pungent

· **Change in condition**

- Melting point/Melting range:** Not applicable
- Boiling point/Boiling range:** 145 °C

· **Flash point:** 31 °C

· **Ignition temperature:** 480 °C

· **Danger of explosion:** Product will not explode . However, formation of explosive air/vapor mixtures are possible .

· **Explosion limits:**

Lower: 1.2 Vol %

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Upper:	8.9 Vol %
· Vapor pressure at 20 °C:	6 hPa
· Density at 21.1 °C:	0.67 - 0.71 g/cm ³
· Solubility in / Miscibility with Water:	Not miscible or difficult to mix.
· Viscosity:	
Kinematic at 21.1 °C:	220000-240000 cps
· 9.2 Other information	No further relevant information available.

10: Stability and reactivity

- **10.1 Reactivity**
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
*No decomposition if stored at room temperature.
 Avoid heat , open flame , and prolonged storage at elevated temperature , avoid contact with excessive heat .*
- **10.4 Conditions to avoid** *No further relevant information available.*
- **10.5 Incompatible materials:** *No further relevant information available.*
- **10.6 Hazardous decomposition products:**
May form :Carbon dioxide and carbon monoxide , various hydrocarbons .

11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**

· **LD/LC50 values that are relevant for classification:**

100-42-5 styrene

Oral	LD50	5000 mg/kg (rat)
Inhalative	LC50/4 h	24 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** *Irritant to skin and mucous membranes.*
- **on the eye:** *Irritating effect.*
- **Sensitization:** *No sensitizing effects known.*
- **Additional toxicological information:**
The product shows the following dangers according to internally approved calculation methods for preparation :
Harmful
Irritant

· **Carcinogenic categories**

· **IARC (International Agency for Research on Cancer)**

100-42-5	styrene	2B
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· **NTP (National Toxicology Program)**

None of the ingredients are listed.

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· **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients are listed.


12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
 Water hazard class 1 (Self-assessment): slightly hazardous for water
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation:** Do not allow product to reach sewage system . Follow local hazardous waste regulations .
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to local hazardous waste regulations.

14: Transport information

- **14.1 UN-Number**
- **DOT, TDG, IMDG, IATA** UN 1866
- **14.2 UN proper shipping name**
- **TDG** 1866 RESIN SOLUTION
- **IMDG, IATA** Resin Solution
- **14.3 Transport hazard class(es)**
- **DOT**
- 
- **Class** 3 Flammable liquids Flammable liquids

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· Label	3
· TDG, IMDG, IATA	
	
· Class	3 Flammable liquids
· Label	3
· 14.4 Packing group	
· DOT, TDG, IMDG, IATA	III
· 14.5 Environmental hazards:	
· Marine pollutant:	No
· 14.6 Special precautions for user	Warning: Flammable liquids
· Danger code (Kemler):	30
· EMS Number:	F-E, <u>S-E</u>
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
· UN "Model Regulation":	UN1866, RESIN SOLUTION, 3, III

15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
 · **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients are listed.

· **TSCA (Toxic Substances Control Act):**

All ingredients are listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients are listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients are listed.

· **Chemicals known to cause developmental toxicity:**

None of the ingredients are listed.

· **Cancerogenity categories**

· **EPA (Environmental Protection Agency)**

None of the ingredients are listed.

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· **TLV (Threshold Limit Value established by ACGIH)**

100-42-5 styrene	A4
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· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients are listed.

· **Canadian substance listings:**

· **Canadian Domestic Substances List (DSL)**

All ingredients are listed.

· **Canadian Ingredient Disclosure list (limit 0.1%)**

100-42-5 styrene	
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· **Canadian Ingredient Disclosure list (limit 1%)**

None of the ingredients are listed.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing MSDS:** Product safety department.

· **Contact:** Jean-Pascal Schroeder

· **Date of preparation / last revision** 11/05/2014 / -

· **Abbreviations and acronyms:**

- ICAO: International Civil Aviation Organization
- IMDG: International Maritime Code for Dangerous Goods
- DOT: US Department of Transportation
- IATA: International Air Transport Association
- GHS: Globally Harmonized System of Classification and Labelling of Chemicals
- ACGIH: American Conference of Governmental Industrial Hygienists
- EINECS: European Inventory of Existing Commercial Chemical Substances
- ELINCS: European List of Notified Chemical Substances
- CAS: Chemical Abstracts Service (division of the American Chemical Society)
- NFPA: National Fire Protection Association (USA)
- HMIS: Hazardous Materials Identification System (USA)
- WHMIS: Workplace Hazardous Materials Information System (Canada)
- LC50: Lethal concentration, 50 percent
- LD50: Lethal dose, 50 percent
- Flam. Liq. 3: Flammable liquids, Hazard Category 3
- Acute Tox. 4: Acute toxicity, Hazard Category 4
- Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2
- Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A