

SAFETY DATA SHEET

Polyester resin

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

Date issued	05.11.2012
Product name	Polyester resin
Article no.	100101
Use of the substance/preparation	Polyester resin.

Distributor

Company name	Färg-In AB
Postal address	Bodalsvägen 6
Postcode	S-681 43
City	Kristinehamn
Country	SWEDEN
Tel	+46 55010045
Fax	+46 55081001
E-mail	ulf.lundgren@fargin.se
Website	http://www.fargin.se
Enterprise no.	SE-556187-9387
Contact person	Ulf Lundgren
Emergency telephone	Poison control center: See National Telephone Number (112)

2. Hazards identification

Classification according to 67/548/EEC or 1999/45/EC	Xn; R10, R20, R36/38
Description of hazard	The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures. Harmful by inhalation. Irritating to eyes and skin. Vapours may cause drowsiness and dizziness.
Other hazards	The product can harm organisms in soil and water

3. Composition/information on ingredients

Component name	Identification	Classification	Contents
Styrene	CAS no.: 100-42-5 EC no.: 202-851-5 Index no.: 601-026-00-0	R10 Xn; R20 Xi; R36/38 Flam. Liq. 3; H226 Acute tox. 4; H332 Eye Irrit. 2; H319 Skin Irrit. 2; H315	40 - 45 %
Column headings	CAS no. = Chemical Abstracts Service; EU (Einecs or Elincs number) = European inventory of Existing Commercial Chemical Substances; Ingredient name = Name as specified in the substance list (substances that are not included in the substance list must be translated, if possible). Contents given in; %, %wt/wt, %vol/wt, %vol/vol, mg/m3, ppb, ppm, weight%, vol%		
HH/HF/HE	T+ = Very toxic, T = Toxic, C = Corrosive, Xn = Harmful, Xi = Irritating, E = Explosive, O = Oxidizing, F+ = Extremely flammable, F = Very flammable, N = Environmental hazard		
Component comments	Unsaturated polyester resin in reactive solvent		

4. First-aid measures

General	General first aid, rest, warmth and fresh air. Do not give victim anything to drink if he is unconscious. Get medical attention if any discomfort continues.
Inhalation	Place unconscious person on the side in the recovery position and ensure breathing. If respiratory problems, artificial respiration/oxygen. Get medical attention if any discomfort continues.
Skin contact	Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water.
Eye contact	Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Contact physician if discomfort continues.
Ingestion	Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions.
Information for health personnel	Get medical attention if any discomfort continues.

5. Fire fighting measures

Suitable extinguishing media	Water spray, fog or mist. Foam, carbon dioxide or dry powder. Dry chemicals, sand, dolomite etc.
Fire and explosion hazards	The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures. In case of fire, toxic gases may be formed.
Fire fighting procedures	Use pressurised air mask if product is involved in a fire. Cool containers exposed to flames with water until well after the fire is out. Self contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions	For personal protection, see section 8. Provide adequate ventilation. Wash thoroughly after dealing with a spillage.
Environmental precautions	Do not discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.
Methods for cleaning	Keep combustibles away from spilled material. Remove sources of ignition. Beware of the explosion danger. Absorb in vermiculite, dry sand or earth and place into containers.

7. Handling and storage

Handling	Flammable/combustible - Keep away from oxidisers, heat and flames. Keep away from heat, sparks and open flame. Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Risk of vapour concentration on the floor and in low-lying areas.
Storage	Flammable liquid storage. Store in tightly closed original container in a cool dry place.

8. Exposure controls/personal protection

Exposure limit values

Component name	Identification	Value	Year
Styrene	CAS no.: 100-42-5	8 h.: 100 ppm	2011
	EC no.: 202-851-5	8 h.: 430 mg/m ³	
	Index no.: 601-026-00-0	15 min.: 250 ppm	
		15 min.: 1080 mg/m ³	

Exposure controls

Occupational exposure controls	Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded. All handling to take place in well-ventilated area. Provide eyewash station.
Respiratory protection	At work in confined or poorly ventilated spaces, respiratory protection with air supply must be used. Wear mask supplied with: Gas cartridge suitable for organic substances.
Hand protection	Use protective gloves made of: Neoprene. Nitrile. Rubber (natural, latex).
Eye protection	Wear splash-proof eye goggles to prevent any possibility of eye contact.
Skin protection (other than of the hands)	Wear appropriate clothing to prevent reasonably probable skin contact.
Other Information	Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9. Physical and chemical properties

Physical state	Viscous liquid.
Odour	Solvent.
Colour	Varying.
Solubility description	Insoluble in water.
Specific gravity	Value: 1,10-1,20 Method of testing: 25 °C
Boiling point / boiling range	Value: 50-150 °C
Flash point	Value: 32 °C Method of testing: (Closed Cup)

10. Stability and reactivity

Conditions to avoid	Avoid exposure to high temperatures or direct sunlight.
Materials to avoid	Alkali metals. Strong oxidising substances. Strong acids. Strong alkalis. Organic peroxides/hydroperoxides. Inorganic peroxides.
Hazardous decomposition products	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.
Stability	Stable under normal temperature conditions. Polymerises generating heat.

11. Toxicological information

Components' toxicological data

Other information regarding health hazards

General	Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.
Inhalation	Harmful by inhalation. In high concentrations, vapours may irritate throat and respiratory system and cause coughing. In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea.
Skin contact	Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Irritating to skin. Harmful in contact with skin.
Eye contact	Irritating and may cause redness and pain.
Ingestion	Gastrointestinal symptoms, including upset stomach.

12. Ecological information

Components' toxicological data

Other ecological information

Ecotoxicity The product may have adverse effects on organisms in soil and water.

13. Disposal considerations

Product classified as hazardous waste	Yes
Packaging classified as hazardous waste	Yes
Specify the appropriate methods of disposal	Dispose of waste and residues in accordance with local authority requirements. Make sure containers are empty before discarding (explosion risk). Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point.
Other Information	Waste to be treated as controlled waste. Disposal to licensed waste disposal site in accordance with local Waste Disposal Authority.

14. Transport information

Product name (national)	RESIN SOLUTION
Dangerous goods ADR	UN no.: 1866 Class: 3 Hazard no.: 30 Packing group: III Proper shipping name: RESIN SOLUTION
Dangerous goods RID	UN no.: 1866 Class: 3 Packing group: III Proper shipping name: RESIN SOLUTION
Dangerous goods IMDG	Status: Yes UN no.: 1866 Class: 3 Packing group: III IMDG Marine pollutant: No EmS: F-E, S-E Proper shipping name: RESIN SOLUTION
Dangerous goods ICAO/IATA	UN no.: 1866 Class: 3 Packing group: III Proper shipping name: RESIN SOLUTION
Other applicable information.	HAZCHEM-KOD 3Y CEPIC KORTNR: 3DGF1-I+II, 3OGF1-sp

15. Regulatory information

Hazard symbol



Harmful

Composition on the label	Styrene: 40 - 45 %
R phrases	R10 Flammable. R20 Harmful by inhalation. R36/38 Irritating to eyes and skin.
S phrases	S3/9/49 Keep only in the original container in a cool, well-ventilated place. S24/25 Avoid contact with skin and eyes. S26 In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.
S36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
S51 Use only in well-ventilated areas.
S60 This material and its container must be disposed of as hazardous waste.
Contains styrene. May produce an allergic reaction.

16. Other information

List of relevant H-phrases (Section 2 and 3).

H226 Flammable liquid and vapour.
H315 Causes Skin irritation.
H319 Causes Serious eye irritation.
H332 Harmful if inhaled.

List of relevant R phrases (under headings 2 and 3).

R10 Flammable.
R20 Harmful by inhalation.
R36/38 Irritating to eyes and skin.

Checking quality of information

This information is based on the information we knew at the time of preparation and they have been given in good faith and provided that the product is used under normal conditions and in accordance with the specified conditions of use. Any other use of the date indicated, eventually together with other products or processes, is at your own risk.

Responsible for safety data sheet

Färg-In AB