



SAFETY DATA SHEET

Fixol

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

Use of the Substance/Preparation	Solvent adhesive for polyamide 6 for flat belts, conveyor- and processing-belts, machine tapes
Supplier	Habasit AG Römerstrasse 1 CH-4153 Reinach BL 1 Tel. +41 61 715 15 15 Fax. +41 61 715 15 55 www.habasit.com product.safety@habasit.com
24 Hour Emergency Assistance	Infotrac, Inc.: (800) 535-5053 Habasit Belting Inc.: 1-678-288-3600
General SDS Assistance	Habasit Belting Inc.: Tel. 1-678-288-3600; Fax 1-678-288-3651 Toll-free Tel. No.: 800-458-6431
Revision Date	17.06.2014
Replaces version of	22.06.2011

2. Composition / information on ingredients

Chemical characterization Solution of Resorcin and Polyamide 6 in Methanol

Components		Symbol(s)	R-phrases(s)	CAS	EINECS
resorcinol; 1,3-benzenediol	25% - 50%	Xn,N	R-22-36/38-43-50	108-46-3	203-585-2
methanol	25% - 50%	F,T	R-11-23/24/25-39/23/24/25	67-56-1	200-659-6

3. Hazards identification



Flammable. Very toxic to aquatic organisms. Toxic by inhalation, in contact with skin and if swallowed. Irritating to eyes and skin. Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.



HMIS RATING:
HEALTH: 2* / FLAMMABILITY: 3 / REACTIVITY: 1
*additional chronic hazards present.

NFPA RATING:
HEALTH: 2 / FLAMMABILITY: 3 / REACTIVITY: 1

4. First aid measures

Inhalation	Move to fresh air. Consult a physician for severe cases.
Skin contact	Wash off with warm water and soap. If skin irritation persists, call a physician.
Eye contact	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion	Induce vomiting if person is conscious. Rinse mouth, ingest activated charcoal. Consult a physician for severe cases.

5. Fire-fighting measures

Suitable extinguishing media	Use dry chemical, CO ₂ , water spray or alcohol foam.
Extinguishing media which must not be used for safety reasons	None.
Specific hazards	Closed containers may explode due to pressure build-up when subjected to excessive heat or intense fire. During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds.
Special protective equipment for firefighters	Standard procedure for chemical fires. In the event of fire, wear self contained breathing apparatus.

6. Accidental release measures

Personal precautions	Remove all sources of ignition. Ensure adequate ventilation. Keep people away from and upwind of spill/leak.
Environmental precautions	Do not flush into surface water or sanitary sewer system.
Methods for cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).



7. Handling and storage

Handling

Use only in well-ventilated areas. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Vapours are heavier than air and may spread along floors. Ingestion, exposure to skin and eyes and inhalation of any generated vapours should be avoided. Wash hands and exposed skin before eating, drinking or smoking and after work.

Storage

Keep tightly closed in a dry, cool and well-ventilated place.

8. Exposure controls / personal protection

Exposure limit(s)

In case of good ventilation no personal respiratory protective equipment required.

Methanol:

EXPOSURE LIMITS, RTECS

Country	Source	Type	Value
USA	ACGIH	STEL	250 PPM
Remarks: Skin			
USA	ACGIH	TWA	200 PPM
Remarks: Skin			
USA	MSHA Standard-air	TWA	200 PPM (260 MG/M3)
(SKIN)			
USA	OSHA.	PEL	8H TWA 200 PPM (260 MG/M3)
New Zealand	OEL		
Remarks: check	ACGIH TLV		
USA	NIOSH	TWA	200 PPM (SK)
		STEL	250 PPM (SK)

Resorcinol:

EXPOSURE LIMITS, RTECS

Country	Source	Type	Value
USA	ACGIH	STEL	20 PPM
USA	ACGIH	TWA	10 PPM
Remarks: check	ACGIH TLV		
USA	NIOSH	TWA	10 PPM
		STEL	20 PPM

Engineering measures to reduce exposure

Ensure adequate ventilation, especially in confined areas.

Personal protection equipment

Respiratory protection

In case of good ventilation no personal respiratory protective equipment required.

Hand protection

Gloves made of Chloroprene. The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.



Eye protection	Safety glasses with side-shields conforming to EN 166.
Skin and body protection	Long sleeved clothing.

9. Physical and chemical properties

Form	Liquid.
Colour	Brown.
Odour	Alcoholic.
Physical and chemical properties	pH: not applicable (% solution) Flash point: 24 °C. Water solubility: partly miscible. Fat solubility %. Boiling point/range 64 °C. Density 1.03 g/ml. Viscosity 85 mPa.s. Autoignition temperature 455 °C. Explosion limits (lower) 5.5 %. Explosion limits (upper) 36 %.

10. Stability and reactivity

Stability	Stable up to approximately 64 °C. Above 64 °C, hazardous fumes may be released.
Materials to avoid	None.
Hazardous decomposition products	None under normal use.

11. Toxicological information

Acute toxicity	Resorcinol LD50/dermal/rabbit = 3360 mg/kg. LD50/oral/rat = 301 mg/kg. LDLO/oral/human = 29 mg/kg. Methanol LD50/oral/rat = 5628 mg/kg. LDLO/oral/human = 143 mg/kg.
Local effects	Toxic by inhalation, in contact with skin and if swallowed. Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Long term toxicity	Repeated absorption may cause disorder of central nervous system, liver, kidneys and blood.



12. Ecological information

Persistence / degradability No data is available on the product itself.

Bioaccumulation Does not bioaccumulate.

13. Disposal considerations

Waste from residues / unused products Should not be released into the environment. Can be incinerated, when in compliance with local regulations. European Waste catalogue code (EWC-code): 08 04 09.

Contaminated packaging Offer rinsed packaging material to local recycling facilities.

14. Transport information

ADR/RID

Proper shipping name:
UN No 1992 Flammable liquid, n.o.s. (resorcinol; methanol), 3, III (D/E).
ADR/RID-Labels 3 + 6.1.
Classification code FT1.
Risk No. 36.
Limited quantity LQ 7: max. 5 litres per inner packing, max. 30 litres in total

IMO

Proper shipping name:
UN No 1992 Flammable liquid, n.o.s. (resorcinol; methanol), 3, III, Flp. 24 °C c.c.
Labels 3.
Limited quantity LQ 7: max. 5 litres per inner packing, max. 30 litres in total
EmS: F-E, S-D.

ICAO

15. Regulatory information

Symbol(s) T - Toxic.
N - Dangerous for the environment.

R-phrases(s) R10: Flammable.
R43: May cause sensitization by skin contact
R50: Very toxic to aquatic organisms.
R23/24/25: Toxic by inhalation, in contact with skin and if swallowed.
R36/38: Irritating to eyes and skin.
R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

**S-phrases(s)**

S16: Keep away from sources of ignition - No smoking.
S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S45: In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S56: Dispose of this material and its container to hazardous or special waste collection point.
S24/25: Avoid contact with skin and eyes.

Regulatory Information

The product is classified and labelled in accordance with (national equivalent of EC-Directive 1999/45).

USA / Canada**Methanol:**

HMIS RATING
HEALTH: 2*
FLAMMABILITY: 3
REACTIVITY: 1

NFPA RATING
HEALTH: 2
FLAMMABILITY: 3
REACTIVITY: 1

*additional chronic hazards present.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: Yes

NOTES: This product is subject to SARA section 313 reporting requirements.

TSCA INVENTORY ITEM: Yes

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No

Resorcinol:

HMIS RATING
HEALTH: 2*
FLAMMABILITY: 0
REACTIVITY: 0

NFPA RATING
HEALTH: 2
FLAMMABILITY: 0
REACTIVITY: 0

*additional chronic hazards present.

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

TSCA INVENTORY ITEM: Yes

CANADA REGULATORY INFORMATION

WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR.

DSL: Yes

NDSL: No



16. Other information

Recommended use	Restricted to professional users. Attention - Avoid exposure - obtain special instructions before use.
End use	The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release. It is not to be considered a warranty or quality specification.
Text of R phrases mentioned in Section 2	R11: Highly flammable. R22: Harmful if swallowed. R43: May cause sensitization by skin contact R50: Very toxic to aquatic organisms. R23/24/25: Toxic by inhalation, in contact with skin and if swallowed. R36/38: Irritating to eyes and skin. R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.
Changes to former version	Gray shadowed titles mark changed data
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