S A F E T Y D A T A S H E E T

according to the (US) Hazard Communication Standard (29 CFR 1910.1200)

Fixol-E

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name	Fixol-E
Product code	None.

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture	Adhesives

1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification	Habasit Belting Inc. 805 Satellite Blvd. P.O. Box 80507 Suwanee, GA 30024 USA info.america@us.habasit.com
1.4. Emergency telephone number	Infotrac, Inc.:+1-800-535-5053 Habasit Belting Inc.: +1-678-288-3600
Issuing date	06.09.2018
Version	02 (Previous versions: 29.07.2016)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

according to the Globally Harmonized System	Acute toxicity, oral, Cat. 4, H302 Skin corrosion/irritation, Cat. 2, H315 Serious eye damage/eye irritation, Cat. 2, H319 Flammable liquids, Cat. 3, H226
Additional information	For the full text of the phrases mentioned in this Section, see Section 16.

2.2. Label elements

Signal Word Warning

Hazard Statements

H226: Flammable liquid and vapour.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H319: Causes serious eye irritation.

Precautionary statements

P280c: Wear protective gloves/ eye protection/ face protection.
P210b: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P312: IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P302+P352: IF ON SKIN: Wash with plenty of soap and water.
P362+P364: Take off contaminated clothing and wash it before reuse.

Supplemental information None.

Product identifier resorcinol; 1,3-benzenediol, CAS-No. 108-46-3

2.3. Other hazards

None.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Adhesive on solvent basis.

Components			Product identifier
resorcinol; 1,3-benzenediol	50% - 75%	Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Acute 1 H400	CAS-No.: 108-46-3
Ethanol; Ethyl alcohol	30% - 50%	Flam. Liq. 2 H225	CAS-No.: 64-17-5

For the full text of the phrases mentioned in this Section, see Section 16.

Hazardous impurities None known.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Move to fresh air. Consult a physician after significant exposure.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
Eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist.
Ingestion	Do not induce vomiting. If conscious, drink plenty of water. Call a POISON CENTER/doctor if you feel unwell.
4.2. Most important symptoms and effects, both acute and delayed	Headache. Dizziness. Blurred vision.
4.3. Indication of any immediate medical attention and special treatment needed	Oxygen, if needed.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Carbon dioxide (CO2). Alcohol-resistant foam Dry chemical.
Extinguishing media which must not be used for safety reasons	High volume water jet.
5.2. Special hazards arising from the substance or mixture	During a fire, smoke may contain the original material in addition to unidentified toxic and/or irritating compounds.

5.3. Advice for firefighters

Special protective equipment for firefighters	In the event of fire, wear self-contained breathing apparatus.
Specific methods	Prevent fire extinguishing water from contaminating surface water or the ground water system. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel	Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Remove all sources of ignition.
Advice for emergency responders	Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Vapours are heavier than air and may spread along floors.
6.2. Environmental precautions	Prevent product from entering surface water or sewage.
6.3. Methods and material for containment and cleaning up	Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Sweep up and shovel into suitable containers for disposal. Clean contaminated surface thoroughly.
6.4. Reference to other sections	See chapter 8 and 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling	Wear personal protective equipment. Keep away from sources of ignition - No smoking. Provide appropriate exhaust ventilation at machinery. Do not breathe vapours/dust. Vapours are heavier than air and may spread along floors. Wash hands and exposed skin before eating, drinking or smoking and after work. Take off contaminated clothing and wash it before reuse. When using, do not eat, drink or smoke.
7.2. Conditions for safe storage, including any incompatibilities	Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store together with food.
7.3. Specific end use(s)	Use only in accordance with our recommendations.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limit(s)	Even in case of a full release, due to the small amount of substances present, it is not expected that exposure limits will be reached. However it is the duty of the user to verify this and follow given exposure limits at the workplace. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL, suitable respiratory protection must be worn.

resorcinol; 1,3-benzenediol (CAS 108-46-3)

U.S. - OSHA - Vacated PELs - TWAs	10 ppm TWA 45 mg/m3 TWA
U.S. - OSHA - Vacated PELs - STELs (Short Term Exposure Limits)	20 ppm STEL 90 mg/m3 STEL

Ethanol; Ethyl alcohol (CAS 64-17-5)

U.S. - OSHA - Final PELs - Time Weighted Averages (TWAs)	1000 ppm TWA 1900 mg/m3 TWA
U.S. - OSHA - Vacated PELs - TWAs	1000 ppm TWA 1900 mg/m3 TWA

8.2. Exposure controls

Appropriate engineering controls Handle in accordance with good industrial hygiene and safety practice.

Personal protection equipment

Respiratory protection In case of good ventilation no personal respiratory protective equipment required. In case of insufficient ventilation wear suitable respiratory equipment. Suitable respiratory equipment: ABEK-filter ABEK-P3-filter Respirator with filter for organic vapour

Hand protection Protective gloves complying with EN 374. Be aware that in daily use the durability of a chemical resistant protective glove can be notably shorter than the break through time measured according to EN 374, due to the numerous outside influences (e.g. temperature). The exact break through time can be obtained from the protective glove producer and this has to be observed. Do not wear leather gloves. Do not wear cotton gloves.

Eye protection Safety glasses with side-shields conforming to EN166.

Skin and body protection Long sleeved clothing.

Thermal hazards No special measures required.

Environmental exposure controls Dispose of waste product or used containers according to local regulations.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Dark brown.
Odour	Alcoholic.
Odour Threshold	Not determined.
pH:	not applicable
Melting point/range:	Not determined.
Boiling point/range:	>80°C
Flash point:	32°C
Evaporation Rate:	Not determined.
Flammability:	Not determined.
Explosion limits:	19%v/v - 3.3%v/v
Vapour pressure:	Not determined.

Vapor density:	Not determined.
Relative density:	1.04 g/ml
Water solubility:	Not determined.
Partition coefficient (n-octanol/water):	Not determined.
Autoignition temperature:	Not determined.
Decomposition temperature:	Not determined.
Viscosity:	560 mPas
Explosive properties:	liquid, flammable
Oxidising properties:	None

9.2. Other information

Suitable solvents	Alcohol
General Product Characteristics	This information is not available.

SECTION 10: Stability and reactivity

10.1. Reactivity	No hazards to be specially mentioned.
10.2. Chemical stability	No decomposition if stored and applied as directed.
10.3. Possibility of hazardous reactions	No hazards to be specially mentioned.
10.4. Conditions to avoid	Heat, flames and sparks.
10.5. Incompatible materials	None.
10.6. Hazardous decomposition products	None reasonably foreseeable.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	Information given is based on data on the components and the toxicology of similar products. Toxic if swallowed. **resorcinol; 1,3-benzenediol (CAS 108-46-3)** Dermal LD50 Rabbit = 3360 mg/kg (NLM_CIP) Inhalation LC50 Rat = 21.3 mg/L 1 h(JAPAN_GHS) Oral LD50 Rat = 202 mg/kg (JAPAN_GHS) **Ethanol; Ethyl alcohol (CAS 64-17-5)** Inhalation LC50 Rat = 124.7 mg/L 4 h(OECD_SIDS) Oral LD50 Rat = 7060 mg/kg (NLM_CIP)
Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/eye irritation	Serious eye damage/eye irritation
Respiratory / Skin Sensitisation	None.

Carcinogenicity	Contains no ingredient listed as a carcinogen.
Germ cell mutagenicity	Contains no ingredient listed as a mutagen.
Reproductive toxicity	Contains no ingredient listed as toxic to reproduction.
Specific target organ toxicity (single exposure)	Based on available data, the classification criteria are not met.
Specific target organ toxicity (repeated exposure)	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.
Human experience	Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.
Information on likely routes of exposure	Inhalation. Skin contact.
Symptoms related to the physical, chemical and toxicological characteristics	Vertigo Drowsiness Causes headache, drowsiness or other effects to the central nervous system. Vertigo
Delayed and immediate effects and also chronic effects from short and long term exposure	Tiredness
Interactive effects	No data is available on the product itself.

SECTION 12: Ecological information

12.1. Toxicity	No data is available on the product itself. Information given is based on data on the components and the toxicology of similar products.
resorcinol; 1,3-benzenediol (CAS 108-46-3)	
Ecotoxicity - Freshwater Fish - Acute Toxicity Data	LC50 96 h Oncorhynchus mykiss >100 mg/L [flow-through] (EPA) LC50 96 h Pimephales promelas 53.4 mg/L (IUCLID) LC50 96 h Pimephales promelas 36 - 100 mg/L [static] (EPA) LC50 96 h Pimephales promelas 100 mg/L [flow-through] (EPA)
Ecotoxicity - Water Flea - Acute Toxicity Data	LC50 48 h Daphnia magna 78 mg/L (IUCLID)
Ethanol; Ethyl alcohol (CAS 64-17-5)	
Ecotoxicity - Earthworm - Acute Toxicity Data	LC50 48 h Eisenia foetida 0.1 - 1 mg/cm2 [filter paper] (IUCLID)
Ecotoxicity - Freshwater Fish - Acute Toxicity Data	LC50 96 h Oncorhynchus mykiss 12.0 - 16.0 mL/L [static] (EPA) LC50 96 h Pimephales promelas >100 mg/L [static] (EPA) LC50 96 h Pimephales promelas 13400 - 15100 mg/L [flow-through] (EPA)
Ecotoxicity - Water Flea - Acute Toxicity Data	LC50 48 h Daphnia magna 9268 - 14221 mg/L (IUCLID) EC50 48 h Daphnia magna 2 mg/L [Static] (EPA)
12.2. Persistence and degradability	Readily biodegradable.
12.3. Bioaccumulative potential	Bioconcentration factor (BCF): 3.16.

12.4. Mobility in soil	No data available.
12.5. Results of PBT and vPvB assessment	This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).
12.6. Other adverse effects	no data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues / unused products	Dispose of as hazardous waste in compliance with local and national regulations. Can be burned in a suitable installation subject to local regulations. 080400 - wastes from MFSU of adhesives and sealants (including waterproofing products)
Contaminated packaging	Dispose of as unused product.

SECTION 14: Transport information

ADR/RID	UN 1993. Proper shipping name: FLAMMABLE LIQUID, N.O.S. (resorcinol; 1,3-benzenediol, Ethanol; Ethyl alcohol). Class 3. Packing group III. ADR/RID-Labels 3+ENV. Environmentally hazardous: Yes Classification code F1. Hazard identification no. 30. Limited quantity 5 L. Excepted quantity E1. Tunnel restriction code D/E
IMDG	UN 1993. Proper shipping name: FLAMMABLE LIQUID, N.O.S. (resorcinol; 1,3-benzenediol, Ethanol; Ethyl alcohol). Class 3. Packing group III. IMDG-Labels 3+ENV. Limited quantity 5 L. Excepted quantity E1. EmS F-E, S-E. Marine pollutant: Yes.

IATA	UN 1993. Proper shipping name: Flammable liquid, n.o.s. (resorcinol; 1,3-benzenediol, Ethanol; Ethyl alcohol). Class 3. Packing group III. IATA label 3+ENV. Packing instruction (passenger aircraft): 355 (60 L). Packing instruction (LQ): Y344 (10 L). Packing instruction (cargo aircraft): 366 (220 L).
Inland navigation ADN	UN 1993. Proper shipping name: FLAMMABLE LIQUID, N.O.S. (resorcinol; 1,3-benzenediol, Ethanol; Ethyl alcohol). Class 3. Packing group III. ADN labels 3+ENV. Classification code F1. Limited quantity 5 L. Excepted quantity E1.
Further Information	None.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Regulatory Information	None.
resorcinol; 1,3-benzenediol (CAS 108-46-3)	
TEDX (The Endocrine Disruption Exchange) - Potential Endocrine Disruptors	Present
Inventory - United States - Section 8(b) Inventory (TSCA)	Present (ACTIVE)
U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities	5000 lb final RQ 2270 kg final RQ
U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics	waste number U201
U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261	waste number U201
U.S. - California - Occupational Exposure Limits - PELs	10 ppm PEL 45 mg/m3 PEL
U.S. - California - Occupational Exposure Limits - STELs	20 ppm STEL 90 mg/m3 STEL
Ethanol; Ethyl alcohol (CAS 64-17-5)	
TEDX (The Endocrine Disruption Exchange) - Potential Endocrine Disruptors	Present
Inventory - United States - Section 8(b) Inventory (TSCA)	Present (ACTIVE)
U.S. - FIFRA - Listing of Pesticide Chemicals (40 CFR 180)	Section number 180.910 Section number 180.930 Section number 180.940

U.S. - California - Proposition 65 - Carcinogens List	carcinogen, 4/29/2011 (in alcoholic beverages)
U.S. - California - Proposition 65 - Developmental Toxicity	developmental toxicity, 10/1/1987 (in alcoholic beverages)
U.S. - California - Occupational Exposure Limits - PELs	1000 ppm PEL 1900 mg/m3 PEL
U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL) Priority List	Fourth priority (in alcoholic beverages)
U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL) Priority List	Third priority (in alcoholic beverages)

15.2. Chemical safety assessment Not required.

SECTION 16: Other information

Revision Note Safety datasheet sections which have been updated: .

Key or legend to abbreviations and acronyms
CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS)
DSD/DPD: Classification according to EU Directives 67/548/EEC or 1999/45/EC
MAK: Occupational exposure limit.

Key literature references and sources for data Information taken from reference works and the literature.

Classification procedure Calculation method. On basis of test data.

Full text of phrases referred to under sections 2 and 3
H225: Highly flammable liquid and vapour.
H226: Flammable liquid and vapour.
H302: Harmful if swallowed.
H315: Causes skin irritation.
H319: Causes serious eye irritation.
H400: Very toxic to aquatic life.

Training advice The rules which cover amongst other things the requirement for ventilation, protective clothing, personal protective equipment etc. can be obtained from the National Occupational Health and Safety Board.

Further information
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Phone: +41 (0)61 715 15 15 (Mo - Fr, 7.30h - 17h)
SDS info: product.safety@habasit.com
Conversion °C=>°F: °F = (°C * 1.8) + 32

Instructions for use For industrial application only. Use only in accordance with our recommendations.

Disclaimer

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 and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.