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

according to Regulation (EU) No. 453/2010

Fixol

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

1.1. Product identifier

Product code	None.
Synonyms	None.

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

Use of the Substance/Preparation	Adhesives

1.3. Details of the supplier of the safety data sheet

Company/Undertaking Identification	Habasit AG Römerstrasse 1 4153 Reinach/BL 061 715 15 15 info@habasit.ch
1.4. Emergency telephone number	+41 44 251 51 51 (Tox Center)
Issuing date	19.11.2014
Version	01 (Previous versions: 21.02.2012)

2. Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (GHS/CLP)	Acute toxicity, oral, Cat. 3, H301 Acute toxicity, dermal, Cat. 3, H311 Acute toxicity, inhal., Vapours, Cat. 3, H331 Skin corrosion/irritation, Cat. 2, H315 Serious eye damage/eye irritation, Cat. 2, H319 Flammable liquids, Cat. 3, H226 Hazardous to the aquatic environment, acute, Cat. 1, H400
Classification according to EU Directives 67/548/EEC or 1999/45/EC	F; R11 N; R50 T; R23/24/25 Xi; R36/38 T; R39/23/24/25
Additional information	For the full text of the phrases mentioned in this Section, see Section 16.

2.2. Label elements

Signal Word	Danger
Hazard Statements	H226: Flammable liquid and vapour. H301+H311+H331: Toxic if swallowed, in contact with skin or if inhaled. H315: Causes skin irritation. H319: Causes serious eye irritation. H400: Very toxic to aquatic life.
Precautionary statements	P260v: Do not breathe vapour. P280: Wear protective gloves/ protective clothing/ 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+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P302+P352: IF ON SKIN: Wash with plenty of soap and water. P362: Take off contaminated clothing.
Additional advice	None.
GHS product identifier	resorcinol; 1,3-benzenediol, CAS-No. 108-46-3, EC-No. 203-585-2 methanol, CAS-No. 67-56-1, EC-No. 200-659-6

Labelling according to Directives 67/548/EEC or 1999/45/EC

F - Highly flammable.
T - Toxic.
N - Dangerous for the environment.

R-phrase(s)

R11: Highly flammable.
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-phrase(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).
S60: This material and its container must be disposed of as hazardous waste.
S24/25: Avoid contact with skin and eyes.
S36/37: Wear suitable protective clothing and gloves.
S23: Do not breathe vapour

Hazardous component(s) which must be listed on the label

resorcinol; 1,3-benzenediol, CAS-No. 108-46-3, EC-No. 203-585-2
methanol, CAS-No. 67-56-1, EC-No. 200-659-6

2.3. Other hazards

None.

3. Composition/information on ingredients

Chemical characterization

Adhesive on solvent basis.

Components		CLP Classification	DSD/DPD Classification	Product identifier
resorcinol; 1,3-benzenediol	50% - 80%	Acute Tox. 4 H302, Eye Irrit. 2 H319, Skin Irrit. 2 H315, Aquatic Acute 1 H400	Xn,N; R-22-36/38-50 [C >= 25 % \ Xn,N; R-22-36/38-50 ¦ 20 % <= C < 25 % \ Xn; R-22-36/38 ¦ 10 % <= C < 20 % \ Xn; R-22]	CAS-No.: 108-46-3 EC-No.: 203-585-2 Index-No: 604-010-00-1
methanol	25% - 50%	Acute Tox. 3 H331, Acute Tox. 3 H311, Acute Tox. 3 H301, STOT SE 1 H370, Flam. Liq. 2 H225	F,T; R-11-23/24/25-39/23/24/25 [C >= 20 % \ T; R-23/24/25-39/23/24/25 ¦ 10 % <= C < 20 % \ T; R-20/21/22-39/23/24/25 ¦ 3 % <= C < 10 % \ Xn; R-20/21/22-68/20/21/22]	CAS-No.: 67-56-1 EC-No.: 200-659-6 Index-No: 603-001-00-X

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

Hazardous impurities

None known.

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	In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Ingestion	Do not induce vomiting. Call a physician immediately.
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.

5. Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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.

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 ignition sources. 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.

7. Handling and storage

7.1. Precautions for safe handling	Keep away from sources of ignition - No smoking. Wear personal protective equipment. Vapours are heavier than air and may spread along floors. Provide appropriate exhaust ventilation at machinery. Do not breathe vapours/dust. Wash hands and exposed skin before eating, drinking or smoking and after work. Remove contaminated clothing and shoes.
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.

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.

1,3-Benzenediol (CAS 108-46-3)

EU - Occupational Exposure	10 ppm TWA

(2006/15/EC) - Second List of Indicative Occupational Exposure Limit Values - TWAs	45 mg/m3 TWA
Ireland - Occupational Exposure Limits - TWAs	10 ppm TWA 45 mg/m3 TWA
Ireland - Occupational Exposure Limits - STELs	30 ppm STEL (calculated) 135 mg/m3 STEL (calculated)
United Kingdom - Workplace Exposure Limits (WELs) - STELs	20 ppm STEL 92 mg/m3 STEL
United Kingdom - Workplace Exposure Limits (WELs) - TWAs	10 ppm TWA 46 mg/m3 TWA
Methyl alcohol (CAS 67-56-1)	
EU - Occupational Exposure	200 ppm TWA
(2006/15/EC) - Second List of Indicative Occupational Exposure Limit Values - TWAs	260 mg/m3 TWA
Ireland - Occupational Exposure Limits - TWAs	200 ppm TWA 260 mg/m3 TWA
Ireland - Occupational Exposure Limits - STELs	600 ppm STEL (calculated) 780 mg/m3 STEL (calculated)
United Kingdom - Workplace Exposure Limits (WELs) - STELs	250 ppm STEL 333 mg/m3 STEL
United Kingdom - Workplace Exposure Limits (WELs) - TWAs	200 ppm TWA 266 mg/m3 TWA

8.2. Exposure controls

Occupational exposure 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. Gloves made of Butyl. 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 or used sacks/containers according to local regulations.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid.
Colour	Dark brown.
Odour	Alcoholic.
Odour Threshold	No information available.
pH:	not applicable
Melting point/range:	No information available.
Boiling point/range:	>64 °C
Flash point:	24 °C
Evaporation Rate:	No information available.
Flammability:	No information available.
Explosion limits:	36% v/v - 5,5% v/v
Vapour pressure:	128 mbar (20°C)
Vapor density:	No information available.
Relative density:	1.03 g/ml
Water solubility:	completely miscible
Partition coefficient (n-octanol/water):	No information available.
Autoignition temperature:	>400°C
Decomposition temperature:	No information available.
Viscosity:	85 mPa*s (20°C)
Combustion/explosion hazards:	liquid, flammable
Oxidizing properties:	None

9.2. Other information

General Product Characteristics	no data available

10. Stability and reactivity

10.1. Reactivity	No hazards to be specially mentioned.
10.2. Chemical stability	Stable at normal conditions.
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.

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. **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) **Methyl alcohol (CAS 67-56-1)** Inhalation LC50 Rat = 22500 ppm 8 h(JAPAN_GHS) Oral LD50 Rat = 6200 mg/kg (JAPAN_GHS)
Skin corrosion/irritation	Toxic in contact with skin.
Serious eye damage/eye irritation	Severe 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)	Causes damage to organs (Liver,Central nervous system,Kidney).
Specific target organ toxicity (repeated exposure)	no data available
Aspiration hazard	no data available
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	Skin contact. Inhalation.
Symptoms related to the physical, chemical and toxicological characteristics	Vertigo Drowsiness Causes headache, drowsiness or other effects to the central nervous system. Visual disturbances.
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.

12. Ecological information

12.1. Toxicity	No data is available on the product itself.

1,3-Benzenediol (CAS 108-46-3)

Ecotoxicity - Freshwater Fish - Acute Toxicity Data	96 h LC50 Oncorhynchus mykiss: >100 mg/L [flow-through] 96 h LC50 Pimephales promelas: 53.4 mg/L 96 h LC50 Pimephales promelas: 36 - 100 mg/L [static] 96 h LC50 Pimephales promelas: 100 mg/L [flow-through]
Ecotoxicity - Water Flea - Acute Toxicity Data	48 h LC50 Daphnia magna: 78 mg/L
Ecotoxicity - Earthworm - Acute Toxicity Data	42 Days LC100 Eisenia foetida: 40000 mg/kg [soil dry weight]

Methyl alcohol (CAS 67-56-1)

Ecotoxicity - Freshwater Fish - Acute Toxicity Data	96 h LC50 Pimephales promelas: 28200 mg/L [flow-through] 96 h LC50 Pimephales promelas: >100 mg/L [static] 96 h LC50 Oncorhynchus mykiss: 19500 - 20700 mg/L [flow-through] 96 h LC50 Oncorhynchus mykiss: 18 - 20 mL/L [static] 96 h LC50 Lepomis macrochirus: 13500 - 17600 mg/L [flow-through]

12.2. Persistence and degradability	Partly biodegradable.
12.3. Bioaccumulative potential	Does not bioaccumulate.
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

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.

14. Transport information

ADR/RID	Proper shipping name FLAMMABLE LIQUID, TOXIC, N.O.S. (resorcinol; 1,3-benzenediol, methanol) UN No 1992. Class 3. Packing group III. ADR/RID-Labels 3+6.1+ENV. Environmentally hazardous: Yes Classification code FT1. Risk No. 36. Limited quantity 5 L. Tunnel code D/E
IMDG	Proper shipping name Flammable liquid, toxic, n.o.s. (resorcinol; 1,3-benzenediol, methanol) UN No 1992. Class 3. Packing group III. IMDG-Labels 3+6.1+ENV. Limited quantity 5 L. EmS F-E, S-D. Marine Pollutant yes
IATA	Proper shipping name Flammable liquid, toxic, n.o.s. (resorcinol; 1,3-benzenediol, methanol) UN No 1992. Class 3. IATA label 3+6.1+ENV. Packing group III. Packing instruction (passenger aircraft): 355 (60 L). Packing instruction (LQ): Y343 (2 L). Packing instruction (cargo aircraft): 366 (220 L).
Inland navigation ADN	Proper shipping name FLAMMABLE LIQUID, TOXIC, N.O.S. (resorcinol; 1,3-benzenediol, methanol) UN No 1992. Class 3. Packing group III. ADN labels 3+6.1+ENV. ADN danger 3+6.1+(N1, N2, N3, CMR, F oder S).
Further Information	Dangerous goods in limited quantities of class max. 5 litres/inner packang.

15. Regulatory information

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

Regulatory Information	None.
1,3-Benzenediol (CAS 108-46-3)	
EU - Biocides (1451/2007) - Existing Active Substances	Present
EU - REACH (1907/2006) - List of Registered Substances	Present
Methyl alcohol (CAS 67-56-1)	

EU - REACH (1907/2006) - List of Registered Substances	Present
15.2. Chemical safety assessment	Not required.

16. Other information

Revision Note	This data sheet contains changes from the previous version in section(s): 1, 2, 3, 8, 15
Key or legend to abbreviations and acronyms	CLP: Classification according to Regulation (EC) No. 1272/2008 (GHS/CLP) MAK: Maximale Arbeitsplatzkonzentration.
Key literature references and sources for data	Information taken from reference works and the literature.
Classification procedure	Classification according to Regulation (EU) 1272/2008 with the correlation table 67/548/EEC or 1999/45/EC (Annex VII of CLP).
Full text of phrases referred to under sections 2 and 3	H225: Highly flammable liquid and vapour. H226: Flammable liquid and vapour. H301: Toxic if swallowed. H302: Harmful if swallowed. H311: Toxic in contact with skin. H315: Causes skin irritation. H319: Causes serious eye irritation. H331: Toxic if inhaled. H370: Causes damage to organs. H400: Very toxic to aquatic life. R11: Highly flammable. R22: Harmful if swallowed. 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. R50: Very toxic to aquatic organisms.
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	None.
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.