

SAFETY DATA SHEET (EC 1907/2006)**Microbond Flux Paste 5070**

| | | | |
|---------------|--------|---------------|------------|
| Material no. | | Version | 4.4 / GB |
| Specification | 135920 | Revision date | 16.08.2007 |
| VA-Nr | | Print Date | 07.08.2008 |
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**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name : Microbond Flux Paste 5070

Company : Umicore AG & Co. KG
Postfach 1351
Rodenbacher Chaussee 4
D-63403 Hanau

Telephone : +49 (0)6181 59-4887
Telefax : +49 (0)6181 59-4150
Email address : msds@eu.unicore.com

Emergency telephone number : +32 (0)3 213-1570

Use of the Substance / Preparation : For industrial use

2. HAZARDS IDENTIFICATION**Additional safety information for humans and the environment**

Irritating to skin.

Risk of serious damage to eyes.

May cause sensitization by skin contact.

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**

preparation

Information on ingredients / Hazardous components

- **Amines,coco alkyl,ethoxylated** >= 5% - < 10%
CAS-No. 61791-14-8
C, N
R22, R34, R50, R53
- **Malonic acid** >= 3% - <= 7%
CAS-No. 141-82-2
Xn
R22, R36
EC-No. 205-503-0
- **2-ethylhexane-1,3-diol** >= 15% - <= 40%
CAS-No. 94-96-2
Xi; R41
EC-No. 202-377-9
- **Rosin** >= 40% - <= 70%
CAS-No. 8050-09-7
Xi; R43
EC-No. 232-475-7
- **Polyethylene glycol butyl ether**
CAS-No. 9004-77-7

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Xi
R36• **Castor oil**

CAS-No. 8001-79-4 EC-No. 232-293-8

See chapter 16 for text of risk phrases

4. FIRST AID MEASURES**General advice**

Remove victims from hazardous area.

Inhalation

Move victims into fresh air.

Skin contactAfter contact with skin, wash immediately with plenty of soap and water.
Take off all contaminated clothing immediately.**Eye contact**

Rinse immediately with plenty of water for 15 minutes and seek advice of an eye specialist.

IngestionHave patient drink plenty of water in small sips.
Do not induce vomiting.
Aspiration hazard!
In case of discomfort: Supply with medical care.**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**Water, water vapour, extinguishing powder, extinguishing foam, alcohol stable extinguishing foam, carbon dioxide (CO₂)**Specific hazards during fire fighting**Formation of flammable or explosive vapour/air mixtures possible.
In the event of fire and/or explosion do not breathe fumes.
Danger of explosion with fire.**Further information**

Water used to extinguish fire should not enter drainage systems, soil, or stretches of water. Ensure there are sufficient retaining facilities for water used to extinguish fire. Contaminated fire-extinguishing water must be disposed of in accordance with the regulations issued by the appropriate local authorities. Retention of fire-extinguishing water in Germany: see FireExtinguishing Water Retention Directive "LoeRueRL".

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**Do not breathe vapours/dust.
Avoid contact with skin and eyes.
Keep people away from and upwind of spill/leak.
Wear personal protective equipment; see section 8.**Environmental precautions**

Prevent penetration into soil, stretches of water and drainage systems.

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**Methods for cleaning up**

Absorb with liquid-binding material, e. g.: sand diatomaceous earth inert absorbent.

Additional advice

Remove all sources of ignition.

7. HANDLING AND STORAGE**Handling****Safe handling advice**

The product should only be handled by trained personnel.
Ensure suitable suction/aeration at the work place and with operational machinery.
Keep out of the reach of children.
Do not breathe vapours/dust.
Avoid contact with skin and eyes.

Storage**Requirements for storage areas and containers**

Fumes may be released in closed storage rooms or during processing.
Keep container dry and tightly sealed - even empties.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Components with workplace control parameters****• Rosin**

| | | | |
|--------------------|------------------------|--------|---|
| CAS-No. | 8050-09-7 | EC-No. | 232-475-7 |
| Control parameters | 0.05 mg/m ³ | | Time Weighted Average (TWA):(EH40 WEL) |
| type of exposition | Fume. | | |
| Control parameters | 0.15 mg/m ³ | | Short Term Exposure Limit (STEL):(EH40 WEL) |
| type of exposition | Fume. | | |

Other information

None known.

Personal protective equipment**Respiratory protection**

In case of dusts/vapours/aerosols being formed or if the limit values like TLV are exceeded:
Suitable filter: A-P2, code colour brown-white

Hand protection

Wear suitable gloves.

| | |
|--------------------|----------------|
| Glove material | nitrile rubber |
| Material thickness | 0.35 mm |
| Break through time | > 480 min |

The rupture time and material thickness data are guideline values! Exact rupture time / material thickness data can be obtained from the protective glove manufacturer.

The information is based on our own tests, references from the literature and information from glove manufacturers, or derived by analogy with similar materials.

Selection of protective gloves to meet the requirements of specific workplaces.

Suitability for specific workplaces should be clarified with protective glove manufacturers.

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**Eye protection**

goggles

When handling larger quantities: protective screen

Skin and body protection

Use suitable skin protective agents before handling product. Cleanse and apply cream to skin after work. Preventive skin protection recommended.

Wear suitable protective clothing.

Hygiene measures

Wash face and/or hands before break and end of work.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

| | |
|----------------|------------|
| Form | pasty |
| Colour | colourless |
| Odour | solvent |
| physical state | liquid |

Safety data

| | |
|---|-----------------------|
| pH | not applicable |
| Boiling point/range | 243 °C |
| Flash point | 125 °C |
| Method: | DIN 51758 |
| Flammability | Flammable. |
| Ignition temperature | 215 °C |
| Method: | DIN 51 794 |
| Lower explosion limit | 0.7 %(V) |
| Upper explosion limit | 5.3 %(V) |
| Density | 0.9 g/cm ³ |
| Water solubility | partly soluble |
| Partition coefficient (n-octanol/water) | not determined |
| Viscosity, dynamic | not determined |

10. STABILITY AND REACTIVITY

Conditions to avoid

When heated above flashpoint and/or with spraying or atomization, a flammable mixture may form with air.

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**11. TOXICOLOGICAL INFORMATION**

No results of animal experiments with the product available.

12. ECOLOGICAL INFORMATION**Elimination information (persistence and degradability)****Behaviour in environmental compartments****Ecotoxicity effects**

Ecotoxicological tests with this preparation are not available.

13. DISPOSAL CONSIDERATIONS**Product**

Dispose of as waste requiring special control in accordance with the legal regulations issued by the appropriate local and national authorities.

If recycling is not practicable, dispose of in compliance with local regulations.

No waste key number as per the European Waste Types List can be assigned to this product, since such classification is based on the (as yet undetermined) use to which the product is put by the consumer.

The waste key number must be determined as per the European Waste Types List (decision on EU Waste Types List 2000/532/EC) in cooperation with the disposal firm / producing firm / official authority.

14. TRANSPORT INFORMATION**Land transport ADR/RID/GGVSE (Germany)**

| | |
|---|---|
| Class | 8 |
| ADR/RID-Labels | 8 |
| UN-No | 2735 |
| Packaging group | II |
| orange warning plate | 80 / 2735 |
| Description of the goods (Technical name) | POLYAMINES, LIQUID, CORROSIVE, N.O.S. (coconut fatty acid, ethoxylated) |

Sea transport IMDG-Code/GGVSee

| | |
|--|---|
| Class | 8 |
| UN-No | 2735 |
| Packaging group | II |
| EmS | F-A, S-B |
| Proper technical name (Proper shipping name) | POLYAMINES, LIQUID, CORROSIVE, N.O.S. (coconut fatty acid, ethoxylated) |

Air transport ICAO-TI/IATA-DGR

| | |
|--|---|
| Class | 8 |
| UN-No | 2735 |
| Packaging group | II |
| Proper technical name (Proper shipping name) | Polyamines, liquid, corrosive, n.o.s. (coconut fatty acid, ethoxylated) |

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**Inland waterway transport ADN/ADNR/GGVBinSch (Germany)**

| | |
|---|---|
| Class | 8 |
| ADR/RID-Labels | 8 |
| UN-No / Substance number | 2735 |
| Packaging group | II |
| Description of the goods (Technical name) | POLYAMINES, LIQUID, CORROSIVE, N.O.S. (coconut fatty acid, ethoxylated) |

Loading instructions/Remarks

| | |
|--------|---------------------------|
| IATA_C | ERG-Code 8L |
| IATA_P | ERG-Code 8L |
| IMDG | Keep separate from acids. |

Transport/further information

Keep separate from foodstuffs, luxury foods, feedstuffs

15. REGULATORY INFORMATION**Labelling according to EC Directives****hazard-defining component(s)**

- Amines,coco alkyl,ethoxylated
- 2-ethylhexane-1,3-diol
- Rosin

| | | |
|-------------|---|---|
| Symbol(s) | Xi N | Irritant Dangerous for the environment |
| R-phrase(s) | R38 R41 R43 R51/53 | Irritating to skin. Risk of serious damage to eyes. May cause sensitization by skin contact. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. |
| S-phrase(s) | S 2 S23 S24/25 S26 S36/37/39 S61 | Keep out of the reach of children. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing, gloves and eye/face protection. Avoid release to the environment. Refer to special instructions/safety data sheets. |

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**National legislation****16. OTHER INFORMATION****Risk phrase (R phrase) texts****• Amines,coco alkyl,ethoxylated**

- | | |
|-----|---|
| R22 | Harmful if swallowed. |
| R34 | Causes burns. |
| R50 | Very toxic to aquatic organisms. |
| R53 | May cause long-term adverse effects in the aquatic environment. |

• Malonic acid

- | | |
|-----|-----------------------|
| R22 | Harmful if swallowed. |
| R36 | Irritating to eyes. |

• 2-ethylhexane-1,3-diol

- | | |
|-----|---------------------------------|
| R41 | Risk of serious damage to eyes. |
|-----|---------------------------------|

• Rosin

- | | |
|-----|--|
| R43 | May cause sensitization by skin contact. |
|-----|--|

• Polyethylene glycol butyl ether

- | | |
|-----|---------------------|
| R36 | Irritating to eyes. |
|-----|---------------------|

Further information

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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.

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