

Safety data sheet in accordance with 91/155/EEC

MAPRENAL MF 600/55BIB

Page 1/6

Substance key: S200054

Version : 5 - 4 /EU / 29.08.2003

Date of printing : 17.11.03

1. Identification of the substance/preparation and company

Trade name

MAPRENAL MF 600/55BIB

Recommended use:

Binder

Identification of the company

SURFACE SPECIALTIES GERMANY

RHEINGAUSTRASSE 190-196

65203 WIESBADEN

Telephone no. : +49 (611) 962-02

Information about the substance/preparation:

Emergency telephone number: +49 (611) 962 8204

2. Composition/information on ingredients

Chemical characterization

n-butyl/isobutylated melamine formaldehyde resin

Hazardous ingredients

Butan-1-ol; n-butanol

Concentration : 20 %

CAS number : 71-36-3

EINECS number : 200-751-6

Hazard symbols Xn

R phrases 10 22 37/38 41 67

2-Methylpropan-1-ol; isobutanol

Concentration : 21 %

CAS number : 78-83-1

EINECS number : 201-148-0

Hazard symbols Xi

R phrases 10 37/38 41 67

Xylene

Concentration : 2 %

CAS number : 1330-20-7

EINECS number : 215-535-7

Hazard symbols Xn

R phrases 10 20/21 38

Free formaldehyde

Concentration : 1 - 1,5 %

CAS number : 50-00-0

EINECS number : 200-001-8

Hazard symbols T

R phrases 23/24/25 34 40 43

For full text of the R - phrase see under chapter 16.

Safety data sheet in accordance with 91/155/EEC

MAPRENAL MF 600/55BIB

Page 2/6

Substance key: S200054

Version : 5 - 4 /EU / 29.08.2003

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3. Hazards identification

Flammable.
Irritating to respiratory system and skin.
Limited evidence of a carcinogenic effect.
May cause sensitization by skin contact.
Risk of serious damage to eyes.

Vapours may cause drowsiness and dizziness.

4. First aid measures

After inhalation
Remove the casualty into fresh air and keep him calm.
In the event of symptoms seek medical advice.

After contact with skin
In case of contact with skin, clean with soap and water.

After contact with eyes
In case of contact with eyes rinse thoroughly with plenty of water. If symptoms persist, seek medical advice

After ingestion
When swallowed seek medical aid immediately and show the physician the packaging or the label of the packaging.

5. Fire-fighting measures

Suitable extinguishing media
sand
alcohol-resistant foam
carbon dioxide
dry powder

Extinguishing media that must not be used for safety reasons
strong water jet

Special hazards from the substance itself, its combustion products or from its vapours
In case of fires, hazardous combustion gases are formed:
Nitrogen oxides (NO_x)

Special protective equipment for firefighting
Use self-contained breathing apparatus

6. Accidental release measures

Methods for cleaning up/taking up
Pick up with absorbent material (e.g. sand, sawdust).
When picked up, treat material as prescribed under heading "Disposal".

7. Handling and storage

Safety data sheet in accordance with 91/155/EEC

MAPRENAL MF 600/55BIB

Page 3/6

Substance key: S200054

Version : 5 - 4 /EU / 29.08.2003

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Advice on safe handling

- Provide good ventilation of working area (local exhaust ventilation if necessary).
- Avoid spilling or spraying in enclosed areas.
- Provide good room ventilation even at ground level (vapours are heavier than air).

Advice on protection against fire and explosion

- Keep away from sources of ignition - refrain from smoking.
- Take precautionary measures against electrostatic loading.
- Use explosion-proof equipment/fittings and non-sparking tools.
- Vapours can form an explosive mixture with air.

Requirements for storage rooms and vessels

- Provide solvent-resistant and impermeable floor.

Advice on storage compatibility

- Do not store or transport together with foodstuffs
- Store as far as possible from combustible and explosive substances.

Further information on storage conditions

- Keep container tightly closed in a cool, well-ventilated place
- Protect from heat and direct sunlight

8. Exposure controls/personal protection

Ingredients with occupational exposure limits to be monitored

Xylene, o-,m-,p- or mixed isomers

CAS number : 1330-20-7

EU - Directive 2000/39/EC - Indicative occupational exposure limit values

TLV-TWA (8 hours):

221 mg/m³ 50 ppm (2000)

Xylene, o-,m-,p- or mixed isomers

CAS number : 1330-20-7

EU - Directive 2000/39/EC - Indicative occupational exposure limit values

TLV-STEL (Short-term):

442 mg/m³ 100 ppm (2000)

General protective measures

- Avoid frequent or prolonged contact with skin
- Avoid contact with eyes
- Do not inhale vapours

Hygiene measures

- Remove soiled or soaked clothing immediately.
- Clean skin thoroughly after work; apply skin cream.
- Cloths contaminated with product should not be kept in trouser pockets.
- Keep separated from food-stuffs and feed-stocks
- Use barrier skin cream.

Respiratory protection :

If ventilation insufficient, use a respiratory protection apparatus

Hand protection :

Nitrile or fluorinated rubber gloves. Consider the porosity and elasticity data of the glove manufacturer and the specific conditions in the work place.

Eye protection :

tightly fitting safety glasses

Safety data sheet in accordance with 91/155/EEC

MAPRENAL MF 600/55BIB

Page 4/6

Substance key: S200054

Version : 5 - 4 /EU / 29.08.2003

Date of printing : 17.11.03

Body protection :

Solvent-resistant protective clothing

9. Physical and chemical properties

Form :	Liquid
Colour :	colourless
Odour :	alkohol-like
Freezing point	approx. -20 °C
Boiling temperature	from 75 °C
Flash point :	approx. 37 °C Method : DIN EN ISO 1523
Ignition temperature :	390 °C Method : DIN 51794
Vapour pressure :	24 mbar (20 °C)
Vapour pressure :	104 mbar (50 °C)
Density :	approx. 0,99 g/cm ³ (20 °C) Method : DIN EN ISO 2811-2
Solubility in water :	immiscible (20 °C)
Solubility/qualitative :	freely miscible with xylene
Acid number :	< 1 mg/g Method : DIN EN ISO 2114
Viscosity :	260 - 460 mPa.s (23 °C) Method : DIN 53177

10. Stability and reactivity

Hazardous decomposition products
Formaldehyde

11. Toxicological information

Remarks:

The product was classified on the basis of the calculation procedure of the preparations directive (1999/45/EC).
Irritation is possible by contact of the product with the skin, respiratory organs or the eyes.
Solvent vapours have a narcotic effect if inhaled in high concentrations

12. Ecological information

Biodegradability :	> 70 % Method : OECD 302B / ISO 9888 / EEC 88/302 C
Fish toxicity :	LC50 > 500 mg/l (96 h, golden orfe)

Safety data sheet in accordance with 91/155/EEC

MAPRENAL MF 600/55BIB

Page 5/6

Substance key: S200054

Version : 5 - 4 /EU / 29.08.2003

Date of printing : 17.11.03

Bacteria toxicity :	approx. 1.000 mg/l Method : fermentation tube test
Dissolved Organic carbon (DOC) :	2.220 mg/l Information based on a 10 % solution in water at 20 °C.
Chemical oxygen demand (COD) :	5.920 mg/l Information based on a 10 % solution in water at 20 °C.

13. Disposal considerations

Product

In accordance with local authority regulations, take to special waste incineration plant

Uncleaned packaging

Packaging that cannot be cleaned should be disposed off as product waste

14. Transport information

ADR	3 / III	UN number : 1866 Hazard no. : 30
	Resin solution	
RID	3 / III	UN number : 1866 Hazard no. : 30
	Resin solution	
IMDG	3 / III	UN number : 1866 EmS Fire: F-E, EmS Spill: S-E
	Resin solution	
ICAO/IATA	3 / III	UN number : 1866
	Resin solution	

Additional information

Dispatch by post: Not permitted

In receptacles < 450 litres: Carriage in accordance with 2.2.3.1.5 (ADR/RID)

15. Regulatory information

Labelling in accordance with EC directives
hazard warning labelling compulsory

Hazard symbols

Xn Harmful

Hazardous component(s) to be indicated on label

Butan-1-ol; n-butanol

2-Methylpropan-1-ol; isobutanol

R phrases

10	Flammable.
37/38	Irritating to respiratory system and skin.
40	Limited evidence of a carcinogenic effect.
41	Risk of serious damage to eyes.
43	May cause sensitization by skin contact.

Safety data sheet in accordance with 91/155/EEC

MAPRENAL MF 600/55BIB

Page 6/6

Substance key: S200054

Version : 5 - 4 /EU / 29.08.2003

Date of printing : 17.11.03

S phrases

- | | |
|-------|-----------------------------------------------------------------------------------------------|
| 20/21 | When using do not eat, drink or smoke. |
| 24 | Avoid contact with skin. |
| 26 | In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. |
| 37/39 | Wear suitable gloves and eye/face protection. |
| 51 | Use only in well-ventilated areas. |

Special labelling for certain preparations

Vapours may cause drowsiness and dizziness.

National regulations

16. Other information

Full text of the R-Phrase from chapter 2:

- | | |
|----------|-------------------------------------------------------------|
| 10 | Flammable. |
| 20/21 | Harmful by inhalation and in contact with skin. |
| 22 | Harmful if swallowed. |
| 23/24/25 | Toxic by inhalation, in contact with skin and if swallowed. |
| 34 | Causes burns. |
| 37/38 | Irritating to respiratory system and skin. |
| 38 | Irritating to skin. |
| 40 | Limited evidence of a carcinogenic effect. |
| 41 | Risk of serious damage to eyes. |
| 43 | May cause sensitization by skin contact. |
| 67 | Vapours may cause drowsiness and dizziness. |

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application.