

Safety data-sheet (91/155 EEC)

Printed 20.12.2002
Revision 20.12.2002 (GB) Version 1.0

METALIN P
10047ME0205

1. Identification of the substance/preparation

Name of product METALIN P
Manufacturer/distributor B. Braun Melsungen AG
Carl-Braun-Straße 1, D-34212 Melsungen
Advice Zentralbereich Zentrale Logistik
Phone ++49 5661-714523
Recommended use(s)
Cleaning agent for medical and laboratory equipment.

2. Composition/information on ingredients

Chemical characterization
Preparation with disodium metasilicate

Hazardous ingredients

CAS-No.	EC-No.	Name	[%]	Classification
-	-	non-ionic surfactants, alkoxyated	< 10	Xi R36; N R50/53
006834-92-0	229-912-9	disodium metasilicate	< 50	C R34; Xi R37

3. Special hazards information for man and environment

R-phrases

34 Causes burns.
37 Irritating to respiratory system.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First aid measures

General information

Remove contaminated soaked clothing immediately.
If you feel unwell, seek medical advice.

In case of inhalation

Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off immediately with plenty of water.
Consult a doctor if skin irritation persists.

In case of eye contact

Rinse thoroughly with plenty of water, also under the eyelids.
Seek medical treatment by eye specialist.

In case of ingestion

Do not induce vomiting.
Summon a doctor immediately.
Rinse out mouth and give plenty of water to drink.

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5. Fire-fighting measures

Suitable extinguishing material

Product does not burn, fire-extinguishing activities according to surrounding.

Extinguishing material that may not be used for safety reasons

Full water jet

Special exposure hazards arising from the substance, combustible products or resulting gases

Fire may produce:

Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases)

Special protective equipment for firefighters

Use breathing apparatus with independent air supply.

Additional information

Cool containers at risk with water spray jet.

6. Accidental release measures

Personal precautions

Avoid contact with skin, eyes and clothing.
Breathing apparatus (particle filter) only if dust is formed.
Ensure adequate ventilation.
Avoid dust formation.
Use personal protective clothing.

Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up/taking up

Pick up mechanically, avoiding dust, and provide disposal in suitable recipients.
Flush away residues with water.

7. Handling and storage

Advice on safe handling

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.
Do not breathe dust.
Avoid contact with eyes, skin or mucous membrane.

Advice on protection against fire and explosion

No special protective measures against fire required.

Requirements for storage rooms and vessels

Keep containers tightly closed in a dry, well-ventilated place.
Do not use zinc containers.
Do not use aluminium containers.
Do not use light metal drums.

Advice on storage compatibility

Do not store with acids.

Further information on storage conditions

Keep away from food, drink and animal feeding stuffs.

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8. Exposure controls / personal protection

Additional advice on system design

Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

Additional advice

Obay TLV for common dust, if applicable.

Respiratory protection

No personal respiratory protective equipment normally required.
Breathing apparatus (particle filter) only if dust is formed.

Hand protection

Gloves made off nitrile (i. e. "Manufix free", B. Braun Melsungen AG)
Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

Eye protection

Eye wash bottle with pure water
Tightly fitting goggles

Skin protection

light protective clothing
Long sleeved clothing.

General protective measures

Avoid contact with eyes and skin
Wash hands before breaks and immediately after handling the product.
When using, do not eat, drink or smoke.
Remove and wash contaminated clothes before re-use.
Do not inhale dust.

9. Physical and chemical properties

Form
powder

Colour
white

Odour
characteristic

Data relevant for safety

	Value	Temperature	at	Method	Remark
pH value in delivery state	ca. 12	20 °C	1 %		
Flash point					n. a.
Combustion temperature					n. a.
Lower explosion limit					n. a.
Bulk density	ca. 700 g/l				
Solubility in water					completely soluble

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10. Stability and reactivity

Conditions to avoid

To avoid thermal decomposition, do not overheat.
Strong exothermic reaction with acids.
Reactions with light metals, with evolution of hydrogen.

Materials to avoid

acids

Hazardous decomposition products

Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).
Hydrogen

Additional information

No decomposition if stored and applied as directed.

11. Toxicological information

Experiences made from practice

The product causes burns of eyes, skin and mucous membranes.
Aqueous solution causes burns of eyes, skin and mucous membranes.
Irritates respiratory tract.

12. Ecological information

Behaviour in sewage plant

The product is an alkaline solution. Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

General regulation

hazard to waters
Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
May contribute to increasing nutrient concentration in stagnant water, so do not discharge into aquatic environment.
Do not discharge product unmonitored into the environment.

13. Disposal considerations

Waste code No.	Name of waste
07 06 99	wastes not otherwise specified

Recommendations for the product

Can be disposed of after chemical and physical treatment, when in compliance with local regulations.

Recommendations for packaging

Empty containers should be taken for local recycling, recovery or waste disposal.
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.
Packaging that cannot be cleaned should be disposed of like the product.

Recommended cleansing agent

water

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14. Transport information

Land and inland navigation transport (ADR/RID/GGVS/GGVE/ADNR)

Identification 3253 DISODIUM TRIOXOSILICAT, MIXTURE
UN-No. 3253
Class 8
PG III
Hazard No. 80
Remarks
LQ 24: combination packaging: 6 kg / 24 kg (total gross mass); trays: 2 kg / 20 kg (total gross mass)

Marine transport IMDG/GGV See

Proper shipping name DISODIUM TRIOXOSILICATE MIXTURE
UN-No. 3253
Class 8
PG III
Marine pollutant No
EmS-No. 8-06
Remarks
Limited quantities (section 3.4): combination packaging: 2 kg / 30 kg (total gross mass); trays: 2 kg / 20 kg (total gross mass)

Air transport ICAO/IATA

Proper shipping name DISODIUM TRIOXOSILICATE MIXTURE
UN/ID-No. 3253
Class 8
PG III
Remarks
PAC 822 (25 kg), CAC 823 (100 kg)

15. Regulatory information

Remarks for classification

According to EC-regulations the product is to be labelled as follows:

Classification

C Corrosive
N Dangerous for the environment

R-phrases

34 Causes burns.
37 Irritating to respiratory system.
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
35 This material and its container must be disposed of in a safe way.
36/37/39 Wear suitable protective clothing, gloves and eye/face protection.
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
61 Avoid release to the environment. Refer to special instructions/safety data sheets.

Hazardous ingredients for labeling

disodium metasilicate

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VOC standard	
VOC content	0 %

16. Other information**Further information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.

The information describes exclusively the safety requirements for the product (s) and is based on the present level of our knowledge.

The delivery specifications are contained in the corresponding product sheet.

This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

(n.a. = not applicable; n.d. = not determined)

Wording of the R-phrases specified in chapter 2 (not the classification of the formulation!)

R 34 Causes burns.

R 36 Irritating to eyes.

R 37 Irritating to respiratory system.

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.