

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 30.01.2013

Revision: 3

Revision: 30.01.2013

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

- **Date of compilation:** 01.04.2012
- **1.1 Product identifier**
- **Trade name:** Solder Mask PSM-45, Balver Mask
- **Article number(s):**
bz064
207292****
1630012
- **Synonym(s):** Lötstopmaske PSM-45, Balver Mask
- **1.2 Relevant identified uses of the substance or mixture and uses advised against:**
No further relevant information available.
- **Application of the substance / the mixture:** Peelable solder mask
- **1.3 Details of the supplier of the safety data sheet**
- **Manufacturer / Supplier:**
Balver Zinn
Josef Jost GmbH & Co.KG
Blintroper Weg 11
D-58802 Balve · Germany
Phone: +49 2375 915 – 0
Fax: +49 2375 915 – 114
E-Mail: Info@BalverZinn.com
- **Manufacturer:**
Cobar Europe BV
Aluminiumstraat 2
NL-4823 AL Breda · Netherlands
Phone: +31 76 5445566
Fax: +31 76 5445577
E-Mail: Info@Cobar.com
- **E-mail address of the competent person responsible for the Safety Data Sheet:** kontakt@trabaserio.eu
- **Informing department:** Technical Support of the Supplier
- **1.4 Emergency telephone number:** Giftnotruf Berlin +49 30 / 30686 790 - Helpdesk in German and English

SECTION 2: Hazards identification

- **2.1 Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**
The product is not classified according to the CLP regulation.
- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC void**
- **2.2 Label elements**
- **Labelling according to EU guidelines:**
The product is not subject to classification according to the calculation methods of the "General Classification Guideline for Preparations of the EC" as issued in the last version.
Observe all safety regulations when handling chemicals.
- **Additional information:** Void
- **2.3 Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** not applicable
- **vPvB:** not applicable

GB

(Contd. on page 2)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 30.01.2013

Revision: 3

Revision: 30.01.2013

Trade name: Solder Mask PSM-45, Balver Mask

(Contd. of page 1)

SECTION 3: Composition/information on ingredients

- **3.2 Mixtures**
- **Description:** Aqueous dispersion
- **Dangerous components:** Void

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **General information:** Remove contaminated clothing.
- **After inhalation:** Supply fresh air; consult doctor in case of symptoms.
- **After skin contact:**
The product is not skin irritating.
Wash with soap and water.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.
- **After swallowing:**
Rinse out mouth and then drink plenty of water.
In case of persistent symptoms consult doctor.
- **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Information for doctor:** Treat symptomatically.
- **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents** Product does not burn - take extinguishing measures according to fire conditions.
- **For safety reasons unsuitable extinguishing agents** none
- **5.2 Special hazards arising from the substance or mixture:**
Can be released in case of fire:
Carbon monoxide (CO) and Carbon dioxide (CO₂)
Under certain fire conditions, traces of other toxic gases cannot be excluded.
- **5.3 Advice for firefighters**
- **Protective equipment:** Do not inhale explosion gases or combustion gases.
- **Additional information:**
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

* SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation.
Keep people at a distance and stay on the windward side.
- **6.2 Environmental precautions:**
Do not allow to enter drainage system, surface or ground water.
Inform respective authorities in case product reaches water or sewage system.
Do not allow to enter the ground/soil.
If material reaches soil inform authorities responsible for such cases.
- **6.3 Methods and material for containment and cleaning up:**
Ensure adequate ventilation.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Clean up affected area.
Send for recovery or disposal in suitable containers.
Dispose of the material collected according to regulations.

(Contd. on page 3)

-GB-

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date: 30.01.2013

Revision: 3

Revision: 30.01.2013

Trade name: Solder Mask PSM-45, Balver Mask

(Contd. of page 2)

- **6.4 Reference to other sections**
- See Section 7 for information on safe handling.
- See Section 8 for information on personal protection equipment.
- See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
- Ensure good ventilation/exhaustion at the workplace.
- Prevent formation of aerosols.
- Do not inhale vapours/aerosols.
- Avoid contact with eyes.
- Avoid prolonged or repeated skin contact.
- **Information about protection against explosions and fires:**
- Follow general precautionary fire protection standards.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage**
- **Requirements to be met by storerooms and containers:**
- Observe all local and national regulations for storage of water polluting products.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
- Keep container tightly sealed.
- Protect from frost.
- **Minimum storage temperature:** +5 °C
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **8.1 Control parameters**
- **Components with critical values that require monitoring at the workplace:**
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **DNELs not applicable**
- **PNECs not applicable**
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
- **Personal protective equipment**
- **General protective and hygienic measures**
- Keep away from foodstuffs, beverages and food.
- Do not eat, drink or smoke while working.
- Do not inhale gases / fumes / aerosols.
- Avoid contact with the eyes.
- Avoid close or long term contact with the skin.
- Be sure to clean skin thoroughly after work and before breaks.
- Use skin protection cream for preventive skin protection.
- **Breathing equipment:** Use breathing protection when aerosol or mist is formed.
- **Protection of hands:**



Protective gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

(Contd. on page 4)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 30.01.2013

Revision: 3

Revision: 30.01.2013

Trade name: Solder Mask PSM-45, Balver Mask

(Contd. of page 3)

Check the permeability prior to each anewed use of the glove.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

To avoid skin problems reduce the wearing of gloves to the required minimum.

· **Material of gloves**

Nitrile rubber - NBR

Recommended thickness of the material: ≥ 0.11 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

Permeation time: ≥ 480 min. (EN 374)

Value for the permeation: Level ≥ 6

Protective gloves should be replaced at first signs of wear.

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· **Eye protection:** Safety glasses recommended during soldering works.

· **Body protection:** Protective clothing should be selected specifically for the working place.

SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**

· **General Information**

· **Appearance:**

· **Form:** liquid

· **Colour:** pink

· **Smell:** light

like ammoniac

· **Odour threshold:** not determined - no data available

· **pH-value at 20 °C:** 9.5

· **Change in condition**

· **Melting point/Melting range:** not applicable

· **Boiling point/Boiling range:** ≥ 100 °C

· **Flash point:** not applicable

· **Inflammability (solid, gaseous)** not applicable

· **Ignition temperature:** not applicable

· **Decomposition temperature:** 265 °C

· **Self-inflammability:** The product/the substance is not selfigniting.

· **Danger of explosion:** Product is not explosive.

· **Critical values for explosion:**

· **Oxidizing properties** Not classified as oxidising.

· **Vapour pressure:** Not determined.

· **Density at 20 °C** ~ 1 g/cm³

· **Settled apparent density** not applicable

· **Relative density** not determined

· **Vapour density (AIR = 1)** no data available

· **Evaporation rate** no data available

· **Solubility in / Miscibility with**

· **Water:** insoluble
dispersible

(Contd. on page 5)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 30.01.2013

Revision: 3

Revision: 30.01.2013

Trade name: Solder Mask PSM-45, Balver Mask

(Contd. of page 4)

- | | |
|---|---------------------------|
| · Organic solvents: | no data available |
| · Partition coefficient (n-octanol/water): | no data available |
| · Viscosity: | |
| dynamic at 25 °C: | 3 - 30000 mPa.s |
| kinematic: | not determined |
| Solids content: | ~69.0 % |
| · 9.2 Other information | See technical data sheet. |

SECTION 10: Stability and reactivity

- **10.1 Reactivity**
- **Chemical stability** Stable, under normal conditions.
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
Sunlight
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:**
Strong acids
Strong oxidizing agents
Metals
- **10.6 Hazardous decomposition products:** Carbon monoxide (CO) and Carbon dioxide (CO₂)

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:**
Mild irritant
Longer lasting and/or repeated skin contact may cause irritation.
- **on the eye:** Short time, reversible irritating effect.
- **Sensitization:** no specific data available
- **Additional toxicological information:**
The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version.
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
According to present knowledge no CMR-effects known.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **Chemical Oxygen Demand (COD-value):** not determined
- **BOD5-value:** not determined
- **General notes:**
There are no quantitative data on the ecological effects of this mixture/substance available to us.

(Contd. on page 6)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 30.01.2013

Revision: 3

Revision: 30.01.2013

Trade name: Solder Mask PSM-45, Balver Mask

(Contd. of page 5)

Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.

Danger to drinking water if even small quantities leak into soil.

Water hazard class 2 (Self-assessment): hazardous for water

- **12.5 Results of PBT and vPvB assessment**
- **PBT:** not applicable
- **vPvB:** not applicable
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation**



Disposal must be made according to official regulations.

- **Waste disposal key number:** According to local/national regulations.

- **European waste catalogue:**

08 04 10	waste adhesives and sealants other than those mentioned in 08 04 09
----------	---

- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- **14.1 UN-Number**

· **ADR, ADN, IMDG, IATA** Void

- **14.2 UN proper shipping name**

· **ADR, ADN, IMDG, IATA** Void

- **14.3 Transport hazard class(es)**

· **ADR, ADN, IMDG, IATA**

· **Class** Void

- **14.4 Packing group**

· **ADR, IMDG, IATA** Void

· **Environmental hazards:** not applicable

· **Marine pollutant:** NO

· **14.6 Special precautions for user:** not applicable

- **Transport in bulk according to Annex II of**

MARPOL73/78 and the IBC Code: not applicable

· **Additional Transport information:** Not dangerous according to the above specifications.

· **UN "Model Regulation":** -

SECTION 15: Regulatory information

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

· **National regulations**

· **Decree to be applied in case of technical fault:** Directive 96/82/EC does not apply.

· **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water

(Contd. on page 7)

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date: 30.01.2013

Revision: 3

Revision: 30.01.2013

Trade name: Solder Mask PSM-45, Balver Mask

(Contd. of page 6)

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment by the supplier has not been carried out yet.

SECTION 16: Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Reasons for changes:**

*The Material Safety Data Sheet has been revised. Changes in the respective chapters are characterized in the left side edge by *.*

· **Department issuing MSDS:**

TRABASERIO S.L.

C./Isabel II, N° 67, Pl. Baja A

07100 Sóller / Spain

Tel. & Fax: +34 971 63 34 64 · E-Mail: kontakt@trabaserio.eu

· **Abbreviations and acronyms:**

RID: Règlement concernant le transport international ferroviaire des marchandises dangereuses (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

GGVSEB (Gefahrgutverordnung Straße, Eisenbahn und Binnenschifffahrt): Ordinance on the national and international carriage of dangerous goods by road, rail, and inland waterways

ADR: Accord Européen relatif au transport international des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

CLP: Regulation on Classification, Labelling and Packaging of Substances and Mixtures

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

· **Datasources:** *These data are based on information submitted by pre-suppliers.*

· *** Data compared to the previous version altered.**