

**Materials Health, Safety and Environmental Data Sheet**  
(EG)1907/2006, (EG)1272/2008, (EG)453/2010

**1. IDENTIFICATION OF THE PRODUCT AND THE COMPANY****1.1 Product information**

Trade name: Lastek B3045V  
Application: cadmium free coated silver brazing rod

**1.2 Supplier/Manufacturer:**

Name: Lastek Belgium n.v./s.a.  
Address: Toekomstlaan 50 – B 2200 Herentals  
Phone/fax: tel. +32 (0)14/22.57.67 – fax. +32 (0)14/22.32.91 – E-mail: [info@lastek.be](mailto:info@lastek.be)

**1.3 Telephone for emergency:** +32 (0)14/22.57.67

**2. RISKS**

This mixture is not classified as dangerous according to Directive 1999/45/EC.  
Brazing/welding vapours and fumes from brazing/welding may cause metal fumes fever.  
Symptoms can appear 4 to 12 hours after. (headache, dizziness, dryness, cough, nausea and fever)  
May cause irritation by prolonged inhalation of brazing/welding fumes.

**Precautionary statements**

- P285 In case of inadequate ventilation wear respiratory protection.
- P314 Get medical advice/attention if you feel unwell.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P202 Do not handle until all safety precautions have been read and understood.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P501 Dispose of contents/container to waste treatment facility in accordance with local and national regulations.

**Additional advice**

Although this product does not require a hazard warning label, we recommend that the safety advice should be observed.

**Other hazards**

Welding and brazing processes can cause spatter, melting metal and UV/IR heat can cause burns or start fires.  
During welding- and brazing processes formed metallic fumes are suspected of being cancer causing agents.  
H319 Causes serious eye irritation.

**3. COMPOSITION AND INFORMATION ABOUT CONSTITUENTS**

CAS-nr	EC-nr	Name	Wt%
7440-22-4	231-131-3	silver (Ag)	10-50
7440-50-8	231-159-6	copper (Cu)	10-45
7440-66-6	231-175-3	zinc (Zn)	10-35
7440-31-5	231-141-8	tin (Sn)	0-5
14075-53-7	237-928-2	potassium tetrafluoroborate (KBF4)	10-30

**4. FIRST AID MEASURES**

Inhalation: take affected person into fresh air. Consult a physician if necessary.  
Skin contact: wash off immediately with plenty of water. Consult a physician if necessary.  
Eye contact: rinse thoroughly with plenty of water and seek medical advice.  
Swallowing: rinse mouth, consult a physician.

Most important symptoms and effects, both acute and delayed: n.d.a.

Indication of any immediate medical attention and special treatment needed: treat symptoms.

**5. FIREFIGHTING MEASURES**

Extinguishing media: the product is non-flammable. In case of environmental fire use fire fighting measures that suit the environment and products stored.  
Extinguishing media to avoid: n.a.  
Special hazards arising from the substance or mixture: fire gas of organic material has to be classed invariably as respiratory poison.  
Advice for fire-fighters: in case of fire, wear suitable respiratory equipment with positive air supply.

Explanations: n.a. = not applicable / n.d. = not determined / n.d.a. = no data available  
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**6. ACCIDENTAL RELEASE MEASURES**

Personal precautions: breathing apparatus (particle filter P3) only if dust is formed.  
 Environmental precautions: do not discharge into the drains or open waters.  
 Cleaning methods: shovel into suitable container for disposal.  
 Reference to other sections: Observe protective instructions (see Sections 7 and 8).  
 Information for disposal: look up section 13.

**7. HANDLING AND STORAGE**

Handling: Avoid contact with eyes, skin or mucous membrane.  
 Do not breathe vapours/dust formed during use.  
 Use only in well-ventilated areas.  
 ANSI Z49.1 Safety in Welding, Cutting and allied processes.  
 When using, do not eat, drink or smoke.

Storage: Keep container dry and tightly closed.

**8. EXPOSURE CONTROLS /PROTECTION OF PERSONNEL**

Technical precautions: during brazing the necessary precautions have to be taken:  
 Use enough and adequate ventilation and local exhaust to keep fumes and gases from the users breathing zone and the general area.

Protective and hygienic measures:  
 when using, do not eat, drink or smoke.  
 Wash hands and skin before breaks and after work.

TLV values: (Belgian list Royal decree 19.05.2009 – 91/322/EC - 2000/39/EC - 2006/15/EC)

	CAS-nr.	EC-nr	TLV
copper (fume)	7440-50-8	231-159-6	0.2 mg/m <sup>3</sup>
silver (metal)	7440-22-4	231-131-3	0.1 mg/m <sup>3</sup>
tin (metal)	7440-31-5	231-141-8	2 mg/m <sup>3</sup>
zinc oxide (fume)	1314-13-2	215-222-5-	5 mg/m <sup>3</sup>
fluorides (inorganic)	---	---	2.5 mg/m <sup>3</sup>

Personal protection:  
 respiration: use suitable breathing apparatus if there is inadequate ventilation.  
 eyes: wear safety glasses with side shields or goggles. The choice of appropriate light filtration for goggles and glasses will be based on visual acuity and may vary from one individual to another. Suggested filter shade number for brazing is 3 to 4  
 hands: wear appropriate protective gloves  
 skin: wear appropriate protective clothing

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state:	solid	Explosion limits:	
Odour:	odourless	LEL (lower):	n.a.
Colour:	light green	UEL (upper):	n.a.
pH:	n.a.	Vapour pressure:	n.a.
Boiling point:	n.a.	Specific gravity:	about. 9.3 g/cm <sup>3</sup>
Melting point:	about. 600 °C	Water solubility:	insoluble
Flash point (method):	n.a.		

**10. STABILITY AND REACTIVITY**

Stability: stable under normal conditions  
 Reactivity: n.d.a.  
 Possibility of hazardous reactions: n.d.a.  
 Conditions to avoid: n.d.a.  
 Products to avoid: oxidizing agents. Strong acids and strong bases.  
 Hazardous decomposition products: metallic oxides. In use (brazing-) fumes will be evolved (see section 8)

**11. TOXICOLOGICAL INFORMATION**

Acute toxicity: brazing/welding vapours and fumes from brazing/welding may cause metal fumes fever.  
 Symptoms can appear 4 to 12 hours after. (headache, dizziness, dryness, cough, nausea and fever)

Irritation and corrosivity: may cause irritation by prolonged inhalation of brazing/welding fumes.

Primary routes of entry: inhalation of brazing fumes.

**12. ECOLOGICAL INFORMATION**

Toxicity: n.d.a.  
 Persistence and degradability: n.d.a.  
 Bio accumulative potential: n.d.a.  
 Mobility in soil: n.d.a.  
 Results of van PBT- and vPvB-assessment: n.d.a.  
 Other adverse effects: n.d.a.  
 Further information: Do not flush into surface water or sanitary sewer system.

**13. WASTE REMOVAL**

The product will be used completely during brazing. Maximize reuse and recycling of remainders.  
 Dust and in exhaust systems separated particles dispose of in compliance with local regulations.  
 Do not expose of in the environment.

**Waste disposal number of waste from residues / unused products**

120104 WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS;  
 non-ferrous metal dust and particles

**Waste disposal number of contaminated packaging**

WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED;

150101 paper and cardboard packaging

150102 plastic packaging

**14. TRANSPORT INFORMATION**

Lad transport: No hazardous material as defined by the transport regulations.  
 Inland waterways transport: No hazardous material as defined by the transport regulations.  
 Marine transport: No hazardous material as defined by the transport regulations.  
 Air transport: No hazardous material as defined by the transport regulations.  
 Dangerous to the environment: no  
 Special precautions for user: no specific precautions required

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code  
 The transport takes place only in approved and appropriate packaging.

Other applicable information:  
 No hazardous material as defined by the transport regulations.

**15. REGULATORY INFORMATION**

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

EU-regulatory information  
 1999/13/EG (VOC): 0 %

National regulatory information  
 Water contaminating class (D): - - not water contaminating

**16. OTHER INFORMATION**

This information only refers to the described product and is based on actual knowledge and experience known by us, because operating conditions are unknown to us and does not belong to our sphere of influence.

The product may not be used without written permission for a use other than mentioned in pt.1.

This information may not be taken nor as a guarantee nor as a quality indication of our product.

This material safety information describes the product in relation with safety rules and is not meant as a technical description.

At any time the user is responsible for taking the necessary precautions to fulfil all local laws and regulations.

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