

**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 identification

Trade name: Lastek 38  
Application: silver brazing of copper alloys without flux

### 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 14/22.57.67

## 2. COMPOSITION AND INFORMATION ABOUT CONSTITUENTS

Alloy of copper, silver, phosphor

## 3. RISKS

The product self does not give hazardous risks. Brazing and soldering may create one of the following hazards:

- Brazing / soldering fumes and gases may be dangerous to your health
- heat rays (infrared radiation from arc or hot metal) can injure eyes and burn skin

Mechanical risk: wire ends can cause stab-wounds or cuts.

## 4. FIRST AID INSTRUCTIONS

Direct measures: usual first aid measures in case of burns

Inhalation: bring affected person to fresh air; if symptoms persist seek medical advice

In case of burning: flush with plenty of cold water for several minutes (at least 5 to 10 minutes)

In case of eye contact: flush with opened eyelid with water for several minutes and seek medical advice

Swallowing: n.a.

## 5. FIRE FIGHTING INFORMATION

The product is non-flammable

Extinguishing media: in case of fire in the surrounding area no restriction; choice of extinguishing media has to be made in relation with the surrounding products.

Extinguishing media to avoid: n.a.

Special fire fighting procedures: use eye protection in case of risk of flying hot particles.

Hazardous decomposition products: n.a.

## 6. PRECAUTIONS TO BE TAKEN IN CASE MATERIAL IS RELEASED

Personal protection: n.a.

Cleaning methods: mechanically

Waste disposal method: reuse or dispose of as scrap

## 7. HANDLING AND STORING

Handling: fume extraction and ventilation needed when brazing fumes may be released

Storing: no special precautions

**8. 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 welders breathing zone and the general area.

Train the welder to keep his head out of the fumes.

TLV-values:	(Belgian list K.B. 11.03.02 – CEE/91/322)	<u>CASnr.</u>	<u>TLV</u>
	Copper fume	7440-50-8	0.2 mg/m <sup>3</sup>
	Silver (soluble compounds)	7440-22-4	0.01 mg/m <sup>3</sup>

Personal protection:

Respiration protection: use respirable fume respirator or air supplied respirator when brazing in confined space or in general work area when local exhaust does not keep exposure below TLV

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 protective gloves

Skin: wear protective clothing

**9. PHYSICAL AND CHEMICAL DATA**

Physical form:	solid, metallic rod	Explosion limits:	n.a.
Odour:	odourless	LEL (lower limit)	
Colour:	copper red	UEL (upper limit)	
pH:	n.a.	Vapour pressure:	n.a.
Boiling point:	n.a.	Specific gravity:	8.2 g/cm <sup>3</sup>
Melting point:	650-810 °C	Solubility in H <sub>2</sub> O:	nihil
Flash point:	n.a. (method: )		

**10. STABILITY AND REACTIVITY**

Stability: stable

Conditions to avoid: n.a.

Products to avoid: keep away from strong acids, alkalines and oxidizing agents

Hazardous decomposition products: no fumes or vapours are evolved by these rods at normal ambient temperatures but in use (brazing-) fumes will be evolved (see section 8)

**11. TOXICOLOGICAL INFORMATION**

N.d.a.

Primary routes of entry: inhalation of fumes

Symptoms/effects: inhalation of excessive fume concentrations may result in following signs and symptoms: respiratory tract irritation, eye irritation and/or metal fume fever.  
Long-term overexposure to brazing fumes can lead to lung diseases and affect pulmonary function.

**12. ECOLOGICAL INFORMATION**

n.a.

**13. WASTE REMOVAL**

Discard any product or residue as ordinary waste in an environmentally acceptable manner unless otherwise noted.

Recycle cardboard boxes and/or plastic packing in conformity with local applicable legislation.

Industrial waste number: 120102 (ferrous metallic scrap) - 120113 (welding waste)

**14. INFORMATION CONCERNING TRANSPORTATION**

Not classified as dangerous good for transport

UN-nr:	n.a.	IMDG:	n.a.
ADR/RID:	n.a.	IATA:	n.a.

**15. LABELLING**

H-phrases: n.a.

P-phrases: n.a.

## 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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