

**Materials Healths, 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**

Tradenname: Lastek 807  
Application: stainless steel welding electrode, rutile-basic type of coating

**1.2 Supplier/Manufacturer:**

Name: Lastek Belgium n.v.  
Address: Toekomstlaan 50 – B2200 Herentals  
Phone/Fax/E-mail: phone: +32 14/22.57.67 - fax.: +32 14/22.32.91 – e-mail: info@lastek.be

**1.3 Telephone for emergency:** +32 14/22.57.67

**2. COMPOSITION AND INFORMATION ABOUT CONSTITUENTS**

Deposited metal: iron based, containing chromium, nickel, manganese.  
The core wire is unalloyed mild steel.  
The coating contains fluorides <5%.

**3. RISKS**

Electric arc welding may create one or more of the following hazards:

- Welding fumes and gases may be dangerous to your health
- Arc rays (UV-rays) can injure eyes and burn skin,
- Heat rays (infrared radiation from arc or hot metal) can injure eyes
- Electric shock can kill
- Carcinogenic assessment: chromium and nickel containing fumrs must be considered possible carcinogenic but the compounds cannot be specified precisely

**4. FIRST AID INSTRUCTIONS**

Inhalation: Bring affected person to fresh air; if breathing is difficult give oxygen  
In case of burning: Flush with plenty of cold water for several minutes (at least 5 to 10 minutes)  
In case of arc burn: Call a physician  
In case of eye contact: Flush with opened eyelid with water for several minutes

**5. FIRE FIGHTING INFORMATION**

The product is not inflammable. n.a.  
Extinguishing media: n.a.  
Extinguishing media to avoid: n.a.  
Special fire fighting procedures: n.a.  
Hazardous decomposition products: n.a.

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

Waste disposal method: n.a.  
Cleaning methods: n.a.  
Personal protection: n.a.

**7. HANDLING AND STORING**

Handling: fume extraction needed if welding fumes may be released  
Storing: n.a.

**8. PROTECTION OF PERSONNEL**

Technical precautions: During welding the necessary precautions have to be taken:

Use enough and adequate general ventilation and a 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 1995 - CEE/91/322)	CAS-nr	TLV
	Welding fume	---	5 mg/m <sup>3</sup>
	Iron oxide (fume)	1309-37-1	5 mg/m <sup>3</sup>
	Manganese (fume)	7439-96-5	1 mg/m <sup>3</sup>
	Chromium compounds (soluble)	7440-47-3	0.05 mg/m <sup>3</sup>
	Nickel compounds (soluble)	7440-02-0	0.1 mg/m <sup>3</sup>
	Fluorides	---	2.5 mg/m <sup>3</sup>

Personal protection:

respiration protection: Use respirable fume respirator or air supplied respirator when welding in confined space or general work area when local exhaust or ventilation does not keep exposure below TLV.

eyes: Wear helmet or use hand shield with shaded filter lens. The choice of appropriate light filtration will be based on visual acuity and may vary widely from one individual to another, particularly under different current densities, materials and electrode diameter; suggested filter shade number for shielded metal arc welding is 10 to 12.

hands: Wear protective welders gloves to prevent injuries from radiation, sparks and electrical shock

skin: Wear protective welding clothing as aprons, hats, shoulder protection, arm protectors to prevent injuries from radiation, sparks and electrical shock

Welder may not permit electrically live parts or electrodes to make contact with skin

**9. PHYSICAL AND CHEMICAL DATA**

Physical form:	coated metallic rod	Explosion limits:	n.a.
Odour:	odorless	LEL (lower limit):	
Colour:	brown coating	UEL (upper limit):	
pH:	n.a.	Vapour pressure:	n.a.
Boiling point:	n.a.	Specific gravity:	about 8 g/cm <sup>3</sup>
Melting point:	about 1400°C	Solubility in H <sub>2</sub> O:	coating partially soluble
Flash point (method):	n.a.		

**10. STABILITY AND REACTIVITY**

Stability: stable

Conditions to avoid: n.a.

Products to avoid: n.a.

Hazardous decomposition products: no fumes or vapour are evolved by these welding electrode at normal ambient temperatures but in use (welding)-fumes will be evolved (see section 8) containing fluorides, nickel and chromium compounds

**11. TOXICOLOGICAL INFORMATION**

Primary routes of entry: inhalation of welding fumes

Symptoms / effects: Inhalation of excessive fume concentrations may result in following signs and symptoms: respiratory tract irritation, dizziness, nausea and/or metal fume fever.

Nickel compounds can cause metallic taste, nausea, tightness in chest, fever and allergic reactions by nickel sensitization.

Hexavalent chromium compounds are considered carcinogenic. This is based on studies in non welding operations indicating a higher incidence of lung and nasal cancers.

Long term overexposure to welding fumes can lead to lung diseases and affect pulmonary function.

**12. ECOLOGICAL INFORMATION**

n.a.

**13. WASTE REMOVAL**

Discard any product or residue as scrap in an environmentally acceptable manner.

Cardboard and / or plastic packing: to be recycled according to local regulations.

**14. INFORMATION CONCERNING TRANSPORTATION**

UN-nr: n.a.

ADR/RID: n.a.

IMDG: n.a.

IATA: n.a.

**15. RHAZARD IDENTIFICATION**

Full text of H-phrases used in Section 3  
H-phrases: H312 / H319 / H332 / H335

**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 an 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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