

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 11017C
Application: TIG-welding rod for low alloyed steels

1.2 Supplier/Manufacturer:

Name: Lastek Belgium n.v.
Address: Toekomstlaan 50 – B2200 Herentals
Phone/Fax: 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

Lowalloyed steel: Iron based (>95%), manganese (1-2%), silicon (0.4-1%), chromium (<1%), nickel (<2.5%), molybdenum (<1%)
The surface of the wire is coppered (<0.5%)

3. RISKS

The product self does not give hazardous risks but 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:
R43: possible risk of cancer. Chromium and/or nickel containing fumes must be considered possible carcinogenic but the compounds cannot be specified precisely

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

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 non-flammable: n.a.
In case of environmental fire: all extinguishing media possible (in relation with the surroundings)
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

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

7. HANDLING AND STORING

Handling: fume extraction needed if welding fumes may be released
Storing: dry place

8. PROTECTION OF PERSONNEL

Technical precautions: during welding 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 2002 – KB 11.03.2002 – CEE 91/322)	CASnr.	TLV
	Welding fume	- - -	5 mg/m ³
	Iron oxide (fume)	1309-37-1	5 mg/m ³
	Manganese and compounds	7439-96-5	0.2 mg/m ³
	Chromium VI (soluble compounds)	7440-47-3	0.05 mg/m ³
	Molybdenum (soluble compounds)	7439-98-7	5 mg/m ³
	Copper (fume)	7440-50-8	0.2 mg./m ³

Personal protection:

Respiration protection: use respirable fume respirator or air supplied respirator when welding in confined space or in general work area when local exhaust 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 from one individual to another, particularly under different current densities, materials and electrode diameter; suggested filter shade number for gas tungsten arc (TIG)-welding is 9 to 13.

Hands: wear protective welder gloves to prevent injuries from radiation, sparks and electrical shock

Skin: wear protective welder clothing as aprons, hats, and shoulder protection, arm protectors to prevent injuries from radiation, sparks and electrical shock. Welder may not permit electrical live parts or electrodes to make contact with skin.

9. PHYSICAL AND CHEMICAL DATA

Physical form:	solid	Explosion limits:	n.a.
Odour:	odourless	LEL (lower limit):	
Colour:	coppered	UEL (upper limit):	
pH:	n.a.	Vapour pressure:	n.a.
Boiling point:	n.a.	Specific gravity:	7 - 8 g/cm ³
Melting point:	about 1400-1500°C	Solubility in H ₂ O:	nihil
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 rods at normal ambient temperatures but in use (welding)-fumes will be evolved (see section 8) containing chromium and nickel 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.

Hexavalent chromium compounds are considered carcinogenic. This is based on non-welding operations indicating a higher incidence of lung and nasal cancers. Nickel containing fumes are considered carcinogenic.

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

12. ECOLOGICAL INFORMATION

Iron containing product. Do not throw it in the environment.

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.

IMDG: n.a.

ADR/RID: n.a.

IATA: n.a.

15. LABELLING

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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