

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 27
Application: Basic coated welding electrode - for hard facing - medium alloyed steel

1.2 Supplier/Manufacturer:

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

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

2. COMPOSITION AND INFORMATION ABOUT CONSTITUENTS

Deposited metal: iron based containing chromium, manganese, vanadium and molybdenum
The basic-coating does contain fluorides: <20 %

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 flame or hot metal) can injure eyes
- Electric shock can kill
- Carcinogenic assessment: chromium containing fumes 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 non-flammable: 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

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 – KB 11.10.2002 – CEE/2000/39)	CASnr.	TLV
	Welding fume	- - -	5 mg/m ³
	Iron oxide (fume)	1309-37-1	5 mg/m ³
	Chromium VI (soluble comp.)	7440-47-3	0.05 mg/m ³
	Manganese and compounds	7439-96-5	0.2 mg/m ³
	Molybdenum (soluble comp.)	7439-98-7	5 mg/m ³
	Vanadium (inhalable fume as V ₂ O ₅)	1314-62-1	0.05 mg/m ³
	Fluoride	- - -	2.5 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 shielded metal arc welding is 9 to 12.

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

9. PHYSICAL AND CHEMICAL DATA

Physical form:	solid, coated metallic rod	Explosion limits:	
Odour:	odourless	LEL (lower):	n.a.
Colour:	grey coating	UEL (upper):	n.a.
pH:	n.a.	Vapour pressure:	n.a.
Boiling point:	n.a.	Specific gravity:	about 8 g/cm ³ (deposited metal)
Melting point:	about 1500°C	Solubility in H ₂ O:	nihil
Flash point:	n.a. (method:)		

10. STABILITY AND REACTIVITY

Stability: stable

Conditions to avoid: n.a.

Products to avoid: n.a.

Hazardous decomposition products: No fumes or vapours are evolved by these welding electrodes at normal ambient temperatures but in use (welding-) fumes will be evolved (see section 8) containing fluorides 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.
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 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

UN-nr: n.a.

IMDG: n.a.

ADR/RID: n.a.

IATA: n.a.

15. HAZARD 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 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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