

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

Tradename: Lastek 7002
Application: coated welding electrode for aluminium

1.2 Supplier/Manufacturer:

Name: Lastek Belgium n.v.
Address: Toekomstlaan 50 – B 2200 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

Wire: aluminium with silicium

The coating is composed of aluminium- and alkali fluorides with the admixture of alkali chlorides and alkaline earth oxides

3. RISKS

The product self does not gives 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 flame or hot metal) can injure eyes
- * electric shock can kill
- * carcinogenic assessment: possible risk of cancer; nickel containing fumes must be considered possible carcinogenic (animal experiments) but are not classified as such
- * may cause sensitization by skin contact; with sensitive persons nickel compounds can cause allergic reactions
- * the welding fumes contain chlorides and fluorides

4. FIRST AID INSTRUCTIONS

Inhalation: bring affected person to fresh air; if breathing is difficult give oxygen
Skin burn: flush with plenty of cold water during several minutes and seek medical advice
In case of arc burn: call a physician

5. FIRE FIGHTING INFORMATION

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 (see section 8)
 Storing: keep electrodes in a dry place in closed package

8. PROTECTION OF PERSONNEL

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

- * use enough and adequate ventilation and a local exhaust to keep fumes from the operators breathing zone and the general area. Train the welder to keep his head out of the fumes.

TLV-values:	(Belgian List 1995)	<u>CAS-nr</u>	<u>TLV</u>
	welding fume	---	5 mg/m ³
	aluminium welding fume	7429-90-5	5 mg/m ³
	fluoride	---	2.5 mg/m ³
	hydrogen fluoride	7664-39-3	C 2.5 mg/m ³ (*)
	hydrogen chloride	7647-01-0	C 7 mg/m ³ (*)

(*) C: ceiling value

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 manual metal arc welding is 9 to 12.

hands: wear protective welder gloves

skin: wear protective welding clothing

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

9. PHYSICAL AND CHEMICAL DATA

Physical form: coated aluminium rod

Odour: odourless

Colour: white grey coating

pH: n.a.

Boiling point: n.a.

Melting point: about 580 – 660 °C

Flash point (method): n.a.

Explosion limits:

LEL (lower limit): n.a.

UEL (upper limit): n.a.

Vapour pressure: n.a.

Specific gravity: 2.7 g/cm³

Solubility in H₂O: the coating is partially soluble

10. STABILITY AND REACTIVITY

Stability: stable

Conditions to avoid: n.a.

Products to avoid: reacts firmly with strong acids evolving hydrogenfluoride and hydrogenchloride

Hazardous decomposition products: no fumes or vapour are evolved by these electrodes at normal ambient temperatures but in use (welding-) fumes will be evolved (see sect. 8) containing fluorides and chlorides.

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.

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

12. ECOLOGICAL INFORMATION

About product: Metallic product, do not throw it in the environment (scrap)
About ingredients: data are unknown

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. LABELLING

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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