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: Lastifil 10015
Application: Solid MIG/MAG-welding wire for low alloyed steel, coppered surface

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

Carcinogenic assessment: fumes must be considered possible carcinogenic but the compounds cannot be specified precisely

3. COMPOSITION AND INFORMATION ABOUT CONSTITUENTS

The product is not considered to be hazardous by the manufacturer.

Element		CAS-nr	wt%
Iron	Fe	7439-89-6	>96
Manganese	Mn	7439-96-5	0 - 3
Silicon	Si	7440-21-3	0 - 3
Carbon	C	7440-44-0	0 - 1

4. FIRST AID INSTRUCTIONS

Inhalation: Bring affected person to fresh air, if irritation persists seek medical attention
Eye contact: With opened eye lid flush with plenty of water, reduce exposure to arc
Skin contact: In case of burn flush with plenty of water and call a physician
Swallowing: n.a.

5. FIRE FIGHTING INFORMATION

Extinguishing media: The product is non flammable. In case of environmental fire use fire fighting measures that suit the environment and products stored (water, CO_2, sand, fire blanket, etc.).
Extinguishing media to avoid: n.a.
Special fire fighting procedures: n.a.
Hazardous decomposition products: none

6. PRECAUTIONS TO BE TAKEN IN CASE MATERIAL IS RELEASED

Waste disposal method:: Professional disposal of welding waste
Cleaning methods: Collect wire and bind together
Personal protection: n.a.

7. HANDLING AND STORING

Handling: fume extraction needed if welding fumes may be released, see section 8
Storing: Dry place
Heavy product; avoid storing in unstable positions to prevent tipping , rolling, slipping and falling. Protect your hands and feet

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. Taking also into account the safety information of the shielding gas used.

TLV-values: (Belgian List – Royal Decree 20.05.2011 - 2009/161/CE)

	CAS-nr	TLV
Welding fume	- - -	5 mg/m³
Iron oxide (fume)	1309-37-1	5 mg/m³
Manganese and compounds	7439-96-5	0.2 mg/m³
Chromium (soluble compouds))	7440-47-3	0.05 mg/m³
Nickel (soluble compounds)	7440-02-0	0.1 mg/m³
Molybdeen (soluble compouds)	7439-98-7	5 mg/m³
Ozon	10028-15-6	0.2 mg/m³

Personal protection:

respiration protect.: Don't breath welding fumes and vapours. 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.
Provide local exhaust and /or general room ventilation.

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 gas metal arc (MIG-MAG) welding is 10 to 13.

hands: Wear protective welder's 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:	solid wire	Explosion limits:	n.a.
Odour:	odourless	LEL (lower limit):	n.a.
Colour:	coppered surface	UEL (upper limit):	n.a.
pH:	n.a.	Vapour pressure:	n.d.a.
Boiling point:	n.a.	Specific gravity:	7.8 g/cm³
Melting point:	about 1400-1500°C	Solubility in H_2O:	insoluble
Flash point (method):	n.a.		

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions
Conditions to avoid: n.a.
Products to avoid: Acids and oxidants
Hazardous decomposition products: No fumes or vapour are evolved by this welding wire at normal ambient temperatures but in use (welding)-fumes will be evolved (see section 8)
Hazardous properties: According to IARC (International Agency for Research on Cancer), welding fumes are classified as cancer suspected agent (Group 2B, possibly carcinogenic)

11. TOXICOLOGICAL INFORMATION

General: Prolonged and excessive exposure and inhalation of welding fumes can cause lung disease and affect the respiratory function.
Primary routes of entry: Inhalation of welding fumes
Acute toxicity: A prolonged and excessive exposure to welding fumes can cause: fever, nausea, dizziness, irritation of the eyes and the respiratory tracts or other mucous membranes
Chronic toxicity: A prolonged and excessive exposure to welding fumes can cause: pulmonary/bronchial diseases and/or breathing difficulties. These diseases may also be caused or aggravated.
Overexposure to: Manganese (Mn) can harm the central nervous system and/or aggravate existing diseases.

12. ECOLOGICAL INFORMATION

Ferrous product. Do not expose of in the environment (scrap).

13. WASTE REMOVAL

Disposal and recycling has to comply with local environmental regulations and legislation, and with respect for the environment.
Cardboard boxes: Paper recycling
Shrink foil: PE-plastic recycling
Metallic reels and wire stub ends: Metal scrap
Industrial waste number: 120101 (ferrous metallic scrap) - 120113 (welding waste)

Explanations: n.a. = not applicable n.d. = not determined n.d.a. = no data available

14. INFORMATION CONCERNING TRANSPORTATION

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

15. HAZARD IDENTIFICATION

Full text of H-phrases used in Section 2
H-phrases: H242 / H315 / H319 / H331 / 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 indicated by the legal warranty regulations.
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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Date: 22.09.2016