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 41G
Application: flux cored tubular wire for MAG-welding

1.2 Supplier/Manufacturer:

Name: Lastek Belgium n.v.
Adres: Industriepark Wolfstee, Toekomstlaan 50 - 2200 Herentals
Telefoon: tel. 014/22.57.67 - fax. 014/22.32.91 – E-mail: info@lastek.be

1.3 Telefoon voor noodgevallen: 014/22.57.67

2. COMPOSITION AND INFORMATION ABOUT CONSTITUENTS

Flux components: manganese oxide (MnO), iron (Fe), nickel (Ni), magnesium oxide (MgO), silicon dioxide (SiO2), titanium dioxide (TiO2), carbon (C)
Wire and strip components: iron (Fe), nickel (Ni)

3. RISKS

The product self does not give hazardous risks but electric arc welding may create one or more of the following hazards:

* H332 harmful if inhaled (welding fumes and vapours)
* H331 toxic if inhaled (carbon monoxide / ozone)
* H335 may cause respiratory irritation
* H315 causes skin irritation (UV- and IR-radiation, can cause skin irritation and hot slag can cause burns)
* H319 causes serious eye irritation (UV / IR-radiation: heat can cause eye irritation, hot slag can cause burns)
* H242 heating may cause a fire (spatter and sparks)
* Mechanical risk: wire ends can cause stab-wounds or cuts.
* Electric shock can kill

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: n.a.

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

8. PROTECTION OF PERSONNEL

Technical precautions: during welding the necessary precautions have to be taken:
Use enough and adequate ventilation and local exhaust at the arc, or both, 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)	CASnr.	TLV
Welding fume	- - -	5 mg/m³
Iron oxide (fume)	1309-37-1	5 mg/m³
Manganese (fume)	7439-96-5	1 mg/m³
Nickel (soluble compounds)	7440-02-0	0.1 mg/m²
Carbon monoxide	0630-08-0	58 mg/m³
Ozone	10028-15-6	0.2 mg/m³

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. Shield others by providing screens and flash goggles.
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
Odour: odourless
Colour: metallic grey
pH: n.a.
Boiling point: n.a.
Melting point: about 1300-1500°C
Flash point (method): n.a.

Explosion limits: n.a.
LEL (lower limit):
UEL (upper limit):
Vapour pressure: n.a.
Specific gravity: 6-8 g/cm³
Solubility in H_2O: nihil

10. STABILITY AND REACTIVITY

Stability: stable
Conditions to avoid: n.a.
Products to avoid: n.a.
Hazardous decomposition products: these rods at normal ambient temperatures evolve no fumes or vapour but in use (welding)-fumes will be evolved (see section 8) containing 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 are considered to be carcinogenic. This is based on studies in non-welding operations that indicated 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.

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

15. HAZARD IDENTIFICATION

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.
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.

Name: W. Goossens
Date: 14.07.2016