

According to 1907/2006/EC

Doc. Rev. No.: 03/14

Date: 01/03/14

Deoxidant Liquid Fluxes LI1 ECO, LI2 ECO, LI3 ECO.

Page no: 1 of 7

# 1. Substance / Preparation and Company Identification

# 1.1 Substance / preparation identification

# 1.1.1 Product name

Deoxidant liquid fluxes LI1 ECO, LI2 ECO, LI3 ECO.

# 1.2 Relevant identified uses of substance / preparation and uses advised against

# 1.2.1 Sector of use

SU3: Industrial uses: end uses of substances as such or of preparations at industrial sites.

#### 1.2.2 Product category

PC38: Welding and soldering products(with flux coatings or flux cores), flux products.

#### 1.3 Company identification

Company Name: STELLA SRL

Address: Via Marconi, 26

City and Country: 21041 ALBIZZATE (VA) - ITALY

+39 - 0331 - 985787 Telephone no.: Fax no.: +39 - 0331 - 985803 Web: www.stella-welding.com

E-mail of person responsible

of Safety Data Sheet: info@stella-welding.com

# 1.4 Emergency phone number

+39 - 0331 - 985787

# 2. Hazards Identification

# 2.1 Classification according to European Regulation no. 1272/2008/EC

HAZARD CLASS: Flam. Liq. 2; Acute Tox. 4; STOT SE 2

SIGNAL WORD: Danger

HAZARD STATEMENT: H225: Highly flammable liquid and vapour.

H302+H312: Harmful if swallowed and in contact

with skin.

H371: May cause damage to organs.

#### 2.2 Classification according to European Directives No. 67/548/EC and 1999/45/EC

CLASSIFICATION: F; Xn

DANGER INDICATIONS: Highly Flammable; Harmful RISK PHRASES R: R11: Highly flammable.

R20/21/22: Harmful by inhalation, in contact with

skin and if swallowed.

R68/20/21/22: Harmful: possible risk of irreversible effects through inhalation, in

contact with skin and if swallowed.

STELLA s.r.l.

Via Marconi 26 - 21041 ALBIZZATE (VA) - ITALY Tel. +39 - 0331- 985787

Fax: +39 - 0331- 985803



According to 1907/2006/EC

Doc. Rev. No.:

03/14

Date: 01/03/14

Deoxidant Liquid Fluxes LI1 ECO, LI2 ECO, LI3 ECO.

Page no: 2 of 7

# 2.3 Label elements according to European Regulation no. 1272/2008/EC







GHS PICTOGRAM: GHS02; GHS07; GHS08

SIGNAL WORD: Danger

PRECAUTIONARY STATEMENT: PREVENTION: P210: Keep away from heat/sparks/open

flames/hot surfaces - No smoking. P261: Avoid breathing vapours.

P280: Wear protective gloves/protective

clothing/eye protection/face

protection.

**RESPONSE:** P301+P312: If swallowed: Call a poison

center or doctor/physician if you feel

unwell.

P309+P311: Ig exposed or you feel unwell: Call a poison center or

doctor/physician.

STORAGE P403+P235: Store in a well ventilated

place. Keep cool.

DISPOSAL: P501: Dispose of contents to approved

waste disposal facility.

Methanol, trimethylborate, ethanol. Contains:

# 2.4 Label elements according to European Directives No. 67/548/EC and 1999/45/EC





SAFETY PHRASES S:

CLASSIFICATION: F; Xn

DANGER INDICATIONS: Highly Flammable; Harmful. R11: Highly flammable. RISK PHRASES R:

R20/21/22: Harmful by inhalation, in contact with

skin and if swallowed.

R68/20/21/22: Harmful: possible risk of irreversible effects through inhalation, in

contact with skin and if swallowed. S2: Keep out of the reach of children. S7: Keep container tightly closed.

S16: Keep away from sources of ignition. No

smoking.

S23: Do not breathe vapours. S25: Avoid contact with eyes.

S36/37: Wear suitable protective clothing and

gloves.

Contains: Methanol, trimethylborate, ethanol.

STELLA s.r.l.

Via Marconi 26 - 21041 ALBIZZATE (VA) - ITALY Tel. +39 - 0331- 985787

Fax: +39 - 0331- 985803



According to 1907/2006/EC

Doc. Rev. No.: 03/14

Date: 01/03/14

Deoxidant Liquid Fluxes LI1 ECO, LI2 ECO, LI3 ECO.

Page no: 3 of 7

# 3. Composition / Information on ingredients

Substance	CAS No.	CE No.	Conc. %	Classification		
				1272/2008/EC	1999/45/EC	
Methanol	67-56-1	200-659-6	C < 10	Flam. Liq. 2 H225 Acute Tox. 3 H331 Acute Tox. 3 H311 Acute Tox. 3 H301 STOS SE 1 H370	F R11 T R23/24/25 T R39/23/24/25	
Trimethylborate	121-43-7	204-468-9	C < 80	Flam. Liq. 3 H226 Acute Tox. 4 H312	Xn R10; R21	
Ethanol	64-17-5	200-578-6	C < 50	Flam. Liq. 2 H225	F R11	

See Section 16. for complete description of R and H Phrases.

# 4. First Aid Measures

Supply fresh air, supply artificial breathing if necessary. Seek medical advice if necessary.

#### Ingestion:

Seek medical advice immediately. Drink plenty of water.

# Skin contact:

Remove contaminated clothing. Thoroughly wash person with plenty of water. Seek medical advice in case of irritation.

#### Eye contact:

Thoroughly wash eyes with plenty of water (15 minutes minimum), lifting the upper and lower eyelids. Seek medical advice.

#### Most important symptoms and effects:

Inhalation: harmful by inhalation; possible effects include: headache; vertigos; cough; sore throat.

Skin contact: irritation, burning sensations.

Eye contact: ache; irritation, burning sensations.

Ingestion: burning sensations, abdominal pain, headache, vertigos, nausea,

vomit.

# 5. Fire Fighting measures

# General information:

Keep product cool with water to avoid decomposition and generation of substances dangerous for health. Always wear complete fire-fighting equipment and respiratory masks. Collect water used for fire extinction and do not release it

STELLA s.r.l.

Via Marconi 26 - 21041 ALBIZZATE (VA) - ITALY Tel. +39 - 0331- 985787

Fax: +39 - 0331- 985803



According to 1907/2006/EC

Doc. Rev. No.: 03/14 Date:

Deoxidant Liquid Fluxes LI1 ECO, LI2 ECO, LI3 ECO.

Page no: 4 of 7

01/03/14

in drainage systems. Dispose of contaminated water used for fire extinction as per local laws and regulations.

# Recommended fire-extinguishing means:

General means: carbon dioxide, foam, nebulized water.

# Un-recommended fire-extinguishing means:

None.

# Dangers arising from exposure in case of fire:

Avoid breathing combustion products.

#### Equipment:

Protective helmet, fireproof clothes, protective gloves (fireproof, cutproof and dielectric), rspiratory mask with full face coverage.

#### 6. Accidental Release Measures

#### Individual Measures:

Wear protective equipment. Keep non-equipped persons at a distance.

# Environmental Precautions:

Avoid the product from being released in drainage systems, in superficial waters, in ground waters, in confined areas.

# Drainage Methods:

Cover spilled materials with inert material (sand, earth) to absorb residues and transfer absorbed materials to closed container for subsequent disposal. Provide adequate ventilation. Avoid breathing vapours.

# 7. Handling and Storage

# Handling:

Avoid breathing the liquid vapours. Use suitable gloves and clothes. Handle in a well ventilated place. Do not smoke, do not use open flames. Do not drink and/or eat.

#### Storage:

Store away from heat sources and in a well ventilated area. Keep containers tightly closed.

# 8. Exposure Controls / Personal Protection

#### 8.1 Exposition Limit Values

Methanol: TLV-TWA/8h:  $262 \text{ mg/m}^3 \text{ (skin)}$ TLV-STEL/15 min: 338 mg/m³ (skin)

Trimethylborate: OEL-TWA:  $2 \text{ mg/m}^3$ 

OEL-STEL:  $6 \text{ mg/m}^3$ 

STELLA s.r.l.

Via Marconi 26 - 21041 ALBIZZATE (VA) - ITALY Tel. +39 - 0331- 985787

Fax: +39 - 0331- 985803

# STELLA WELDING ALLOYS

# MATERIAL SAFETY DATA SHEET

According to 1907/2006/EC

Doc. Rev. No.: 03/14

Date: 01/03/14

Deoxidant Liquid Fluxes LI1 ECO, LI2 ECO, LI3 ECO.

Page no: 5 of 7

Ethanol:

TLV-TWA/8h:

 $1300 \text{ mg/m}^3$ 

# 8.2 Exposure Controls

# BREATHING PROTECTION

In case of formation of vapours / aerosol, use adeguate respiratory equipment (filter type P3).

# HAND PROTECTION

Use appropriate gloves resistant to chemical agents.

#### EYES PROTECTION

Wear chemical goggles.

#### SKIN PROTECTION

Wear suitable light protection clothing.

# CONTROL OF ENVIRONMENTAL EXPOSURE:

Comply with local standards and regulations regarding safeguard of environment.

# 9. Physical and Chemical Properties

Physical State: liquid

Appearance: transparent, colourless/pinky liquid

Odour: alcohol odour

Boiling point: 65 °C (Methanol) / 68°C (trimethylborate) /

78°C (ethanol)

# 10. Stability and Reactivity

Product is stable in normal conditions of use and storage, anyway avoid contact with sources of ignition.

# Materials to avoid:

Acid halogens, alkali metals, alkaline-earth metals, oxidative agents, halogens.

#### Conditions to avoid:

Heat; flames and sparks.

# 11. Toxicological Information

# Acute Toxicity:

LD/LC50 values regarding the classification:

Component	CAS No.	Method		Value	Unit
Methanol	67-56-1		oral) inhalation) cutaneous)	1187-2769 128,2 > 17000	mg/kg mg/l (4 hours) mg/kg

STELLA s.r.l.

Via Marconi 26 - 21041 ALBIZZATE (VA) - ITALY Tel. +39 - 0331- 985787

Tel. +39 - 0331- 985787 Fax: +39 - 0331- 985803



According to 1907/2006/EC

Doc. Rev. No.: 03/14

Date: 01/03/14

Deoxidant Liquid Fluxes LI1 ECO, LI2 ECO, LI3 ECO.

Page no: 6 of 7

Trimethylborate	121-43-7	LD50-rat LD50-rabbit	(oral) (cutaneous)	> 2000 1980	mg/kg mg/kg
Ethanol	64-17-5	LC50-rat LDL-rabbit	(inhalation) (cutaneous)	5,9 20000	mg/l (6 h) mg/kg

# 12. Ecological Information

Comply with the proper precautions to avoid environmental damages caused by the use of this product. This product shall not enter in sewers of surface drains.

Component	Method	Species	Value	Unit
Methanol	LC50	fish	15400 - 24900	mg/l (96 hours)
	CE50	Daphnia	> 10000	mg/l (48 hours)
	CI50	Alga	ca. 22000	mg/l (72 hours)

#### 13. Disposal Considerations

Residues of product have to be considered as special, dangerous waste. Disposal of product should be performed by authorized waste-management companies, complying with local rules and legislation.

# 14. Transport Information

LAND (ADR / RID):

Class: UN Number: 1993 Packaging group: II

Name: Flammable liquid, N.O.S.

SEA (IMDG):

Class: 3 UN Number: 1993 Packaging group: II

Flammable liquid, N.O.S. Name:

AIR (IATA-ICAO):

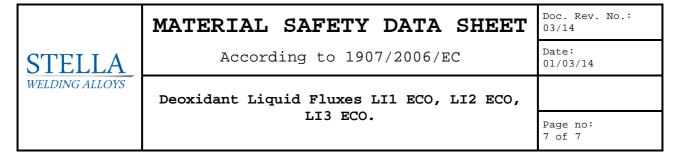
Class: 3 UN Number: 1993 Packaging group: II

Name: Flammable liquid, N.O.S.

STELLA s.r.l.

Via Marconi 26 - 21041 ALBIZZATE (VA) - ITALY Tel. +39 - 0331- 985787

Fax: +39 - 0331- 985803



# 15. Regulatory Information

N/A.

H226:

# 16. Other Information

Complete description of Risk Phrases cited in section 3. of this Safety Data Sheeet.

Flammable liquid and vapour.

H312: Harmful in contact with skin. H225: Highly flammable liquid and vapour. н331: Toxic if inhaled. H311: Toxic in contact with skin. H301: Toxic if swallowed. H370: Causes damage to organs. R10: Flammable. R11: Highly flammable. R21: Harmful in contact with skin. R23/24/25: Toxic by inhalation, in contact with skin and if swallowed. R39/23/24/25: Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed.

# REVISIONS:

This document supersedes the document rev. no. 02/09 dated 20 February 2009.

# BIBLIOGRAPHY:

- 1. Directive 1999/45/CE and subsequent modifications
- 2. Directive 67/548/CEE and subsequent amendments and modifications(XXX adapting to technical progress)
- 3. Regulation (CE) 1907/2006 of European Parliament(REACH)
- 4. Regulation (CE) 1272/2008 of European Parliament
- 5. The Merck Index. Ed. 10
- 6. Handling Chemical Safety
- 7. Niosh Registry of Toxic Effects of Chemical Substances
- 8. INRS Fiche Toxicologique
- 9. Patty Industrial Hygiene and Toxicology
- 10. N.I. Sax Dangerous properties of Industrial Materials-7 Ed., 1989

# Note for user:

Information contained in this Data Sheet are based on the knowledge available to us at the date of last document revision. Users should verify the suitability and completeness of information with regard to specific use the product. No data contained in this Data Sheet may be regarded as an assurance of any particular specific property of product. As end use of product is not under our direct control, it is the user's responsibility to fully comply with laws and regulations applicable in safety and hygiene. We do not take any responsibility for any un-proper use of product.

STELLA s.r.l.

Via Marconi 26 - 21041 ALBIZZATE (VA) - ITALY Tel. +39 - 0331- 985787

Fax: +39 - 0331- 985803