



# SAFETY DATA SHEET

## SOLDER LV WITH FLUX

Issued on 11/10/2014 - Rel. # 2 on 06/01/2015

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In conformity to Regulation (EU) 2015/830

### SECTION 1. Identification of the substance/mixture and of the company/undertaking

#### 1.1. Product identifier

SOLDERS WITH FLUX

Product code : SOLDER LV / SOLDER LV15

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

solders with flux  
professional use

Uses advised against

Do not use for purposes other than those listed

#### 1.3. Details of the supplier of the safety data sheet

Nobil Metal Spa  
Strada San Rocco, 28 - 14018 Villafranca d'Asti - Italy  
tel. +39 0141 933811 fax +39 0141 943840

Email: [contact@nobilmetal.it](mailto:contact@nobilmetal.it) - Sito internet: [www.nobilmetal.it](http://www.nobilmetal.it)

Email tecnico competente: [a.mantovani@nobilmetal.it](mailto:a.mantovani@nobilmetal.it)

#### 1.4. Emergency telephone number

+39 0141 933811 - 8.30-12,30 / 13.30-17.30

### SECTION 2. Hazards identification

#### 2.1. Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Nonhazardous

Pictograms:  
None

Hazard Class and Category Code(s):  
Nonhazardous

Hazard statement Code(s):  
Nonhazardous

#### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):  
None

Hazard statement Code(s):  
Nonhazardous

Precautionary statements:  
None in particular.

### 2.3. Other hazards

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

No information on other hazards

## SECTION 3. Composition/information on ingredients

### 3.1 Substances

Irrilevant

### 3.2 Mixtures

Refer to paragraph 16 for full text of risk phrases and hazard statements

metal alloy - solder with flux

potassium hydroxide related only to the flux incorparetd

Substance	Concentration	Classification	Index	CAS	EINECS	REACH
potassium hydroxide	> 0,1 <= 1%	Acute Tox. 4, H302; Skin Corr. 1A, H314	019-002-00-8	1310-58-3	215-181-3	

## SECTION 4. First aid measures

### 4.1. Description of first aid measures

Inhalation:

Air the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (with flux):

Wash thoroughly with soap and running water.

Direct contact with eyes (with flux):

Wash immediately and thoroughly with running water for at least 10 minutes.

Ingestion:

Rinse mouth with water, if you feel unwell seek medical advice.

### 4.2. Most important symptoms and effects, both acute and delayed

No data available.

### 4.3. Indication of any immediate medical attention and special treatment needed

No data available.

## SECTION 5. Firefighting measures

### 5.1. Extinguishing media

Advised extinguishing agents:

Water spray, CO2, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing means to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

## **5.2. Special hazards arising from the substance or mixture**

No data available.

## **5.3. Advice for firefighters**

Use protection for the breathing apparatus

Safety helmet and full protective suit.

The spray water can be used to protect the people involved in the extinction

You may also use selfrespirator, especially when working in confined and poorly ventilated area and if you use halogenated extinguishers (Halon 1211 fluobrene, Solkan 123, NAF, etc...)

Keep containers cool with water spray

## **SECTION 6. Accidental release measures**

### **6.1. Personal precautions, protective equipment and emergency procedures**

6.1.1 For non-emergency personnel:

Wear gloves and protective clothing

6.1.2 For emergency responders:

Wear gloves and protective clothing.

Provision of sufficient ventilation.

### **6.2. Environmental precautions**

Contain spill

Discharge the remains in compliance with the regulations

### **6.3. Methods and material for containment and cleaning up**

6.3.1 For containment:

Recover the product for reuse, if possible, or the removal.

6.3.2 For cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:

None in particular.

### **6.4. Reference to other sections**

Refer to paragraphs 8 and 13 for more information

## **SECTION 7. Handling and storage**

### **7.1. Precautions for safe handling**

Avoid contact and inhalation of vapors during processing.

At work do not eat or drink.

See also paragraph 8 below.

### **7.2. Conditions for safe storage, including any incompatibilities**

Keep in the original container. No other special measure required.

### **7.3. Specific end use(s)**

Professional use:

Avoid contact and inhalation of vapors during processing.

**8.1. Control parameters**

Related to contained substances:  
 potassium hydroxide:  
 TLV :2 mg/m3 (value ceiling) (ACGIH 2000).

**8.2. Exposure controls**

Appropriate engineering controls:  
 Public domain:  
 No specific monitoring foreseen

Individual protection measures:

(a) Eye / face protection  
 Not needed for normal use.

(b) Skin protection

(i) Hand protection  
 Not needed for normal use.

(ii) Other  
 Wear normal work clothing.

(c) Respiratory protection  
 Not needed for normal use.

(d) Thermal hazards  
 No hazard to report

Environmental exposure controls:  
 Use according to good working practices to avoid pollution into the environment.

**SECTION 9. Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

Physical and chemical properties	Value	Determination method
Appearance	solid	
Odour	odorless	
Odour threshold	irrelevant	
pH	irrelevant	
Melting point/freezing point	655-680°C	
Initial boiling point and boiling range	undefined	
Flash point	nonflammable	ASTM D92
Evaporation rate	irrelevant	
Flammability (solid, gas)	irrelevant	
Upper/lower flammability or explosive limits	irrelevant	
Vapour pressure	irrelevant	

Physical and chemical properties	Value	Determination method
Vapour density	irrelevant	
Relative density	not determined	
Solubility(ies)	not soluble	
Water solubility	not soluble	
Partition coefficient: n-octanol/water	irrelevant	
Auto-ignition temperature	irrelevant	
Decomposition temperature	irrelevant	
Viscosity	irrelevant	
Explosive properties	not explosive	
Oxidising properties	non-oxidizing	

### 9.2. Other information

No data available.

## SECTION 10. Stability and reactivity

### 10.1. Reactivity

No reactivity hazards

### 10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

### 10.3. Possibility of hazardous reactions

There are no hazardous reactions

### 10.4. Conditions to avoid

Nothing to report

### 10.5. Incompatible materials

Nothing to report

### 10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11. Toxicological information

### 11.1. Information on toxicological effects

ATE(mix) oral = 166.666,7 mg/kg

ATE(mix) dermal = 0,0 mg/kg

ATE(mix) inhal = 0,0 mg/l/4 h

- (a) acute toxicity: not applicable
- (b) skin corrosion/irritation: not applicable
- (c) serious eye damage/irritation: not applicable
- (d) respiratory or skin sensitization: not applicable

- (e) germ cell mutagenicity: not applicable
- (f) carcinogenicity: not applicable
- (g) reproductive toxicity: not applicable
- (h) specific target organ toxicity (STOT) single exposure: not applicable
- (i) specific target organ toxicity (STOT) repeated exposure: not applicable
- (j) aspiration hazard: not applicable

**Health hazards:**

Contact with eyes: accidental contact with the eyes may cause irritation.

Contact with skin: the product is not an irritant. Repeated and prolonged direct contact can degrease and irritate the skin and cause dermatitis in some cases.

Ingestion: ingestion may cause product mucosal irritation of the throat and digestive system resulting in abnormal digestive symptoms and intestinal disorders.

Inhalation: prolonged Exposure to vapors or mists of product may cause irritation to the respiratory tract.

**Related to contained substances:**

potassium hydroxide:

ROUTES of EXPOSURE: the substance can be absorbed into the body by inhalation of its aerosol and by ingestion.

INHALATION RISK: evaporation at 20 C negligible; a harmful concentration of aereodisperse particles can, however, be reached quickly.

Effects of short-term exposure: the substance is Corrosive very corrosive to the eyes, the skin and the respiratory tract.

Corrosive if swallowed. Inhaling an aerosol of this substance can cause pulmonary edema (see notes).

Effects of REPEATED EXPOSURE or long-term repeated or prolonged Contact with skin may cause dermatitis.

ACUTE HAZARDS/Symptoms INHALATION Corrosive. Burning sensation. Sore throat. Cough. Difficulty in breathing. Shortness of breath. Symptoms may be delayed (see notes).

SKIN Corrosive. Redness. Pain. Blisters. Severe skin burns.

Corrosive EYES. Redness. Pain. Blurred vision. Severe deep burns.

INGESTION: Corrosive. Abdominal pain. Burning sensation. Shock or collapse.

N O T and The exposure limit value must not be exceeded in any moment of work exposure. Symptoms of lung oedema often do not occur before a few hours and are aggravated by physical effort. Are therefore essential rest and medical observation.

## SECTION 12. Ecological information

### 12.1. Toxicity

Related to contained substances:

potassium hydroxide:

This substance can be dangerous for the environment; Special attention must be paid to aquatic organisms

Use according to good working practices to avoid pollution into the environment.

### 12.2. Persistence and degradability

No data available.

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.



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### 12.5. Results of PBT and vPvB assessment

The substance / mixture NOT contains substances PBT/vPvB according to Regulation (EC) No 1907/2006, Annex XIII

### 12.6. Other adverse effects

No adverse effects

## SECTION 13. Disposal considerations

### 13.1. Waste treatment methods

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.

Recover if possible. Operate according to local or national regulations

## SECTION 14. Transport information

### 14.1. UN number

Not included in the scope of application regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

### 14.2. UN proper shipping name

None

### 14.3. Transport hazard class(es)

None

### 14.4. Packing group

None

### 14.5. Environmental hazards

None

### 14.6. Special precautions for user

No data available.

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

It is not intended to carry bulk

## SECTION 15. Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available.

### 15.2. Chemical safety assessment

The supplier hasn't made an assessment of chemical safety

## SECTION 16. Other information

### 16.1. Other information

Description of the hazard statements exposed to point 3

H302 = Harmful if swallowed.

H314 = Causes severe skin burns and eye damage.

Classification based on data of all mixture components

#### GENERAL BIBLIOGRAPHY:

1. Directive 1999/45/EC and subsequent updates
2. Directive 67/548/EEC and subsequent amendments and adjustments
3. Council Regulation (EC) 1907/2006 of the European Parliament (REACH)
4. Regulation (EC) 1272/2008 of the European Parliament (CLP) and subsequent updates
5. Council Regulation (EC) no 758/2013 of the European Parliament
6. Regulation (EC) no 453/2010 of the European Parliament
7. Regulation (EC) No 528/2012 European Parliament and subsequent updates
8. Council Regulation (EC) 648/2004 of the European Parliament and subsequent updates
9. The Merck Index And 10.
10. Handling Chemical Safety
11. Niosh Registry of Toxic Effects of Chemical Substances
12. INRS-Centre Piece
13. Patty-Industrial Hygiene and Toxicology
14. N.I. Sax-Dangerous properties of Industrial Materials-7 Ed., 1989

Note to the user:

the information in this tab are based on knowledge available to us on the date of the latest version.

The user must ensure the fitness and completeness of the information in relation to the specific use of the product.

You should not interpret it as a guarantee of any specific property of the product.

For the use of the product does not fall under our direct control, the obligation of the user to observe under their own liability laws and regulations on hygiene and safety. Do not assume liability for improper use.

This tab replaces and cancels all previous