

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

SDS Ref.: E11

Date of issue: 07/06/2019 Revision date: 07/06/2019 Supersedes: 24/01/2018 Version: 9.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product name : Ferro-Ni, FeNi/Cu

Type of product : Coated Electrodes for Manual Metal Arc Welding

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

1.2.1. Relevant identified uses

Main use category : Industrial use, Professional use, Consumer use

Industrial/Professional use spec : Industrial

Use of the substance/mixture : Coated Electrodes for Manual Metal Arc Welding

Function or use category : Welding and soldering agents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

SELECTARC WELDING (FSH Welding Group)

4, Rue de la fonderie

25220 ROCHE-LEZ-BEAUPRE - FRANCE T 33 (0)3 81 60 51 72 - F 33 (0)3 81 60 57 90 f.perrichon@fsh-welding.com - www.fsh-welding.com

1.4. Emergency telephone number

Emergency number : ORFILA (France) (33) (0)1 45 42 59 59

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (inhalation:dust,mist) Category 4 H332
Skin sensitisation, Category 1 H317
Carcinogenicity, Category 2 H351
Specific target organ toxicity — Repeated exposure, Category 1 H372

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Coated electrodes have a compact constitution and are to be considered as equivalent to metals in massive form. As a consequence, derogation from labelling requirements shall apply according to EEC/67/548 directive (Annexe VI) and 1272/2008 (EC) regulation (Article 23).

2.3. Other hazards

Other hazards not contributing to the classification

: Hazards during welding process : Arc rays. Heat and noise from the electrical arc. Welding fumes / gases. Electric shock. Fire and explosion hazards. Exposure to electromagnetic fields.

PBT: not relevant – no registration required vPvB: not relevant – no registration required

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

J.Z. MIXLUIGS			
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nickel	(CAS-No.) 7440-02-0 (EC-No.) 231-111-4 (EC Index-No.) 028-002-00-7 (REACH-no) 01-211943	35,5 - 40,5	Skin Sens. 1, H317 Carc. 2, H351 STOT RE 1, H372
Copper powder	(CAS-No.) 7440-50-8 (EC-No.) 231-159-6 (REACH-no) 01-2119480154-42	1,5 - 3	Aquatic Acute 1, H400 Aquatic Chronic 3, H412

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nickel powder; [particle diameter < 1mm]	(CAS-No.) 7440-02-0 (EC-No.) 231-111-4 (EC Index-No.) 028-002-01-4 (REACH-no) 01-2119438727-29	< 2	Carc. 2, H351 STOT RE 1, H372 Skin Sens. 1, H317 Aquatic Chronic 3, H412
Copper substance with a Community workplace exposure limit	(CAS-No.) 7440-50-8 (EC-No.) 231-159-6	< 0,5	Not classified

Full text of H-statements: see section 16

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4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical

advice (show the label where possible)

First-aid measures after inhalation : Assure fresh air breathing. Remove person to fresh air and keep comfortable for breathing.

In case of doubt or persistent symptoms, consult always a physician.

First-aid measures after skin contact : When symptoms occur: rinse immediately with plenty of water. The melted product

adheres to the skin and causes burns. Treat as thermal burns.

First-aid measures after eye contact : In case of contact with dust or fumes with the eyes, rinse immediately with plenty of water.

First-aid measures after ingestion : Ingestion unlikely

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

Symptoms/effects after inhalation : Welding fumes are classified carcinogenic to humans "group 1" by IARC (Monograph 118,

2017).

Symptoms/effects after skin contact : The melted product adheres to the skin and causes burns. Irritation or eye burns due to the

radiation thermal, infrared or ultraviolet (arc welding).

Symptoms/effects after eye contact : Contact with welding fumes can be irritating to the eyes.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : No special requirements. Only combustible materials adjacent to the welding unit may

cause a fire or explosion. Means of extinction must therefore be adapted to the inflamed matters

5.2. Special hazards arising from the substance or mixture

Fire hazard : Coated electrodes are not flammable. Fire or explosion hazards are provoqued by heat

sources (molten metal, slag, electrodes stubend, recently welded pieces, etc) combined

with flammable materials (included dust and gaz).

Hazardous decomposition products in case of fire : Toxic and corrosive vapours may be released.

5.3. Advice for firefighters

Precautionary measures fire : Respiratory protection equipment may be necessary.

Firefighting instructions : Prevent fire fighting water from entering the environment. Exercise caution when fighting

any chemical fire.

Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : None.

6.1.1. For non-emergency personnel

Protective equipment : No special protection required.

Emergency procedures : Start cleanup only if spill has cooled completely. Mechanically recover the product.

6.1.2. For emergency responders

Protective equipment : No special protection required.

Emergency procedures : Start cleanup only if spill has cooled completely. Mechanically recover the product.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

No additional information available

6.4. Reference to other sections

No additional information available

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Use personal protective equipment as required. Provide good ventilation in process area to

prevent formation of vapour. Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

: Store in a dry place. Keep container closed when not in use. Storage conditions

Incompatible products : Strong acids.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

0.4	A		
×п	Control	parameters	

Copper (7440-50-8)		
EU	Local name	Copper
EU	IOELV TWA (mg/m³)	0,01 mg/m³ (respirable fraction)
EU	Notes	(Year of adoption 2014)
EU	Regulatory reference	SCOEL Recommendations
France	Local name	Cuivre
France	VME (mg/m³)	1 mg/m³ (Dust)
France	VLE (mg/m³)	2 mg/m³ (poussières), en Cu
France	Note (FR)	Valeurs recommandées/admises
France	Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	1 mg/m³ (Dust)
Germany	TRGS 910 Acceptable concentration notes	
United Kingdom	WEL TWA (mg/m³)	1 mg/m³ (Dust)
USA - ACGIH	ACGIH TWA (mg/m³)	1 mg/m³ (Dust)

Nickel (7440-02-0)	lickel (7440-02-0)	
EU	IOELV STEL (mg/m³)	1 mg/m³
France	VME (mg/m³)	1 mg/m³
France	VLE (mg/m³)	1 mg/m³
Germany	TRGS 910 Acceptable concentration notes	
United Kingdom	WEL TWA (mg/m³)	0,5 mg/cm³
USA - ACGIH	ACGIH TWA (mg/m³)	1 mg/m³

nickel powder; [particle diameter < 1mm] (7440-02-0)		
France VME (mg/m³) 1		1
Germany	rmany TRGS 910 Acceptable concentration notes	
United Kingdom	WEL TWA (mg/m³)	0.5

Copper powder (7440-50-8)		
France VME (mg/m³)		1 mg/m³ Dust
France	VLE (mg/m³)	2 mg/m³ Dust
France	Note (FR)	Fumées : VME = 0,2 mg/m3
Germany	TRGS 900 Occupational exposure limit value (mg/m³)	1 mg/m³
Germany TRGS 910 Acceptable concentration notes		
United Kingdom	WEL TWA (mg/m³)	1 mg/m³ Dust
United Kingdom	WEL STEL (mg/m³)	2 mg/m³ Dust

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Copper powder (7440-50-8)		
United Kingdom	Remark (WEL)	Fumes : VME = 0.2 mg/m3
USA - ACGIH	ACGIH TWA (mg/m³)	1 mg/m³

8.2. Exposure controls

Personal protective equipment:

Insufficient ventilation: wear respiratory protection. Insulated gloves. Safety glasses. Heatproof clothing.

Hand protection:

Welding gloves in leather and refractory fleece with cufflinks, complying with standard EN 12477.

Eye protection:

Mask active welder with electro-optical or passive display with tinted glass. Eye protection equipment must conform to standard EN 175.

Skin and body protection:

Clothing protection suitable for welding operations and comply with standards EN 470 - 1 and EN 531.

Respiratory protection:

The protection of the welder against releases of vapours and gases must be ensured by ventilation or forced ventilation of the welding machine. When using the product in a confined environment or excessive production of smoke, wear a mask equipped with a built-in respiratory filter type FFP3 or a stand-alone system ventilation, complies with EN 12941.

Personal protective equipment symbol(s):









SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid

Appearance : Coated Electrodes for Manual Metal Arc Welding.

Colour : No data available

Odour : odourless

Odour threshold : No data available pН : No data available : No data available Relative evaporation rate (butylacetate=1) Melting point : 1000 - 1500 °C Freezing point : No data available · No data available Boiling point Flash point : No data available Auto-ignition temperature : No data available Decomposition temperature : No data available Flammability (solid, gas) : No data available Vapour pressure : No data available : No data available Relative vapour density at 20 °C Relative density : No data available Density : 7000 - 8000 kg/m³ : No data available Solubility Log Pow : No data available Viscosity, kinematic : No data available Viscosity, dynamic : No data available

9.2. Other information

Explosive properties

Oxidising properties

Explosive limits

No additional information available

: No data available

: No data available

No data available

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SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

No additional information available

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

Welding fumes / gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Harmful if inhaled.

ATF CLP (dust mist)	2.407 mg/l/4h

Copper (7440-50-8)

30ppor (1440 00 0)	
LD50 oral rat	>= 413 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	2,55 mg/l/4h

Nickel (7440-02-0)

LD50 oral rat	> 2000 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	> 2,55 mg/l/4h

Copper powder (7440-50-8)

The transfer of the transfer of	
LD50 oral rat	413 mg/kg
LC50 inhalation rat (Dust/Mist - mg/l/4h)	5,11 mg/l/4h

Skin corrosion/irritation : Not classified Serious eye damage/irritation : Not classified

Respiratory or skin sensitisation : Alloys containing nickel are classified for skin sensitisation when the release rate of 0,5 µg

Ni/cm2/week is exceeded, in case of direct and prolonged contact with skin

(1272/2008/EC, Annexe VI).

Germ cell mutagenicity : Not classified

Carcinogenicity : Suspected of causing cancer.

Reproductive toxicity : Not classified STOT-single exposure : Not classified

STOT-repeated exposure : Causes damage to organs through prolonged or repeated exposure.

Aspiration hazard : Not classified

Other information : Welding fumes are classified carcinogenic to humans "group 1" by IARC (Monograph 118,

2017).

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity : Not classified Chronic aquatic toxicity : Not classified

Nickel (7440-02-0)

NICKEI (1440-02-0)	
LC50 fish 1	0,32 g/l Brachydanio rerio
LC50 fish 2	0,35 g/l Fundulus heteroclitus
NOEC chronic fish	0,04 mg/l Brachydanio rerio

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nickel powder; [particle diameter < 1mm] (7440-02-0)			
LC50 fish 1	0,4 - 320 mg/l Pimephales promelas / Brachydanio rerio		
LC50 fish 2	26,6 - 350 mg/l Atherinops affinis / Fundulus heteroclitus		
NOEC chronic fish	0,04 mg/l Brachydanio rerio		
12.2. Persistence and degradability No additional information available 12.3. Bioaccumulative potential No additional information available 12.4. Mobility in soil Ferro-Ni, FeNi/Cu			
Mobility in soil	<=		
12.5. Results of PBT and vPvB assessment			
Ferro-Ni, FeNi/Cu			
PBT: not relevant – no registration required			

12.6. Other adverse effects

Packing group (IMDG)

Packing group (IATA)

Packing group (ADN)

Packing group (RID)

Marine pollutant

14.5. Environmental hazards Dangerous for the environment

No additional information available

vPvB: not relevant - no registration required

SECTION 13: Disposal considerations		
13.1. Waste treatment methods Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN 14.1. UN number UN-No. (ADR) : Not applicable UN-No. (IMDG) : Not applicable UN-No. (IMDG) : Not applicable UN-No. (ATA) : Not applicable UN-No. (RID) : Not applicable UN-No. (RID) : Not applicable UN-No. (RID) : Not applicable 14.2. UN proper shipping name Proper Shipping Name (ADR) : Not applicable Proper Shipping Name (IMDG) : Not applicable Proper Shipping Name (IMDG) : Not applicable Proper Shipping Name (RID) : Not applicable 14.3. Transport hazard class(es) ADR Transport hazard class(es) (IMDG) : Not applicable IMDG Transport hazard class(es) (IMDG) : Not applicable IATA Transport hazard class(es) (IATA) : Not applicable	SECTION 13: Disposal considerations	
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	Transport hazard class(es) (ADN)	: Not applicable
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	Transport hazard class(es) (RID)	: Not applicable
14.4. Packing group	14.4. Packing group	
Packing group (ADR) : Not applicable	Packing group (ADR)	: Not applicable

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: Not applicable

: Not applicable

: Not applicable

: Not applicable

: No

: No

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: No supplementary information available Other information

14.6. Special precautions for user

Overland transport

No data available

Transport by sea

No data available

Air transport

No data available

Inland waterway transport

No data available

Rail transport

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

15.1.2. National regulations

Germany

Reference to AwSV : Water hazard class (WGK) 2, Significantly hazardous to water (Classification according to

AwSV, Annex 1)

12th Ordinance Implementing the Federal

: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)

Immission Control Act - 12.BImSchV

Netherlands

SZW-lijst van kankerverwekkende stoffen : None of the components are listed SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Borstvoeding

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Vruchtbaarheid

NIET-limitatieve lijst van voor de voortplanting

giftige stoffen - Ontwikkeling

: None of the components are listed : None of the components are listed

: None of the components are listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

Pregnant/breastfeeding women working with the product must not be in direct contact with

the product

The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment

No chemical safety assessment has been carried out for the substance or the mixture by the supplier

SECTION 16: Other information

Full text of H- and EUH-statements:	
Aquatic Acute 1	Hazardous to the aquatic environment — Acute Hazard, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Carc. 2	Carcinogenicity, Category 2
Skin Sens. 1	Skin sensitisation, Category 1

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H317	May cause an allergic skin reaction.
H332	Harmful if inhaled.
H351	Suspected of causing cancer.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.