

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

1.1. Product identifier

Product form : Mixture
Product name : Fonte-Ni4, Ferro-Ni, Fonte BMP, Fe-Ni/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
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]

Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
Carc. 2	H351
STOT RE 1	H372

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

Fonte-Ni4, Ferro-Ni, Fonte BMP, Fe-Ni/Cu

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazardous ingredients :

Nickel

Hazard statements (CLP) :

H315 - Causes skin irritation
H317 - May cause an allergic skin reaction
H319 - Causes serious eye irritation
H351 - Suspected of causing cancer
H372 - Causes damage to organs through prolonged or repeated exposure

Precautionary statements (CLP) :

P201 - Obtain special instructions before use
P202 - Do not handle until all safety precautions have been read and understood
P260 - Do not breathe dust, gas, fume
P264 - Wash hands thoroughly after handling
P270 - Do not eat, drink or smoke when using this product
P272 - Contaminated work clothing should not be allowed out of the workplace
P280 - Wear protective gloves, protective clothing, eye protection
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P314 - Get medical advice/attention if you feel unwell
P321 - Specific treatment (see ... on this label)
P332+P313 - If skin irritation occurs: Get medical advice/attention
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention
P337+P313 - If eye irritation persists: Get medical advice/attention
P362+P364 - Take off contaminated clothing and wash it before reuse
P405 - Store locked up
P501 - Dispose of contents/container in accordance with local/regional/national/international regulations

2.3. Other hazards

Other hazards not contributing to the classification

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

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

Comments

: Solid wire / rod are considered as articles according to the REACH regulation (EC) 1907/2006.

Name	Product identifier	%	Classification according to Directive 67/548/EEC
Nickel substance listed as REACH Candidate	(CAS No)7440-02-0 (EC no)231-111-4 (EC index no)028-002-00-7 (REACH-no)01-211943	35 - 72	Carc.Cat.3; R40 T; R48/23 R43
Potassium silicate	(CAS No)1312-76-1 (EC no)215-199-1	< 1	C; R34 Xi; R37

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nickel substance listed as REACH Candidate	(CAS No)7440-02-0 (EC no)231-111-4 (EC index no)028-002-00-7 (REACH-no)01-211943	35 - 72	Skin Sens. 1, H317 Carc. 2, H351 STOT RE 1, H372
Potassium silicate	(CAS No)1312-76-1 (EC no)215-199-1	< 1	Skin Corr. 1B, H314 STOT SE 3, H335

Full text of R- and H-phrases: see section 16

Fonte-Ni4, Ferro-Ni, Fonte BMP, Fe-Ni/Cu

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Assure fresh air 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. If skin irritation or rash occurs: Get medical advice/attention.
- First-aid measures after eye contact : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if pain, blinking or redness persist.
- First-aid measures after ingestion : Ingestion unlikely. Do NOT induce vomiting. Obtain emergency medical attention.

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

- Symptoms/injuries after inhalation : May cause respiratory irritation. Welding fumes are evaluated possibly carcinogenic to humans "Group 2B" in IARC.
- Symptoms/injuries after skin contact : May cause moderate irritation. The melted product adheres to the skin and causes burns.
- Symptoms/injuries after eye contact : Eyes injuries provoked by thermal, IR ou UV rays (manual metal arc welding). Contact with the fumes and arc rays can injure eyes.
- Symptoms/injuries after ingestion : Harmful if swallowed.

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 : Only combustible materials nearby the welding post can provoke fire or explosion. As a consequence, extinction measures have to be adapted to the burning materials.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Coated electrodes are not flammable. Fire or explosion hazards are provoked 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

- 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

6.1.1. For non-emergency personnel

- Protective equipment : No special protection required.
- Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

- Protective equipment : No special protection required.
- Emergency procedures : Start cleanup only if spill has cooled completely. Recover mechanically the product.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : On land, sweep or shovel into suitable containers.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing Do not eat, drink or smoke when using this product.

Fonte-Ni4, Ferro-Ni, Fonte BMP, Fe-Ni/Cu

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according to Regulation (EC) No. 1907/2006 (REACH)

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Store in dry protected location to prevent any moisture contact. Keep container closed when not in use.
Incompatible products	: Strong acids. Oxidizing agent.
Storage area	: Store in a well-ventilated place.
Special rules on packaging	: Store in a closed container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Exposure controls

Personal protective equipment : Protective clothing. Gloves. Safety glasses. Insufficient ventilation: wear respiratory protection.



Materials for protective clothing	: Wear suitable protective clothing.
Hand protection	: Welder gloves in leather with refractory duffel and cuff in accordance with EN 12477 standard.
Eye protection	: Welding helmet with auto-darkening screen or tinted glasses in accordance with EN 175 and EN 379 standards.
Skin and body protection	: Protective clothing suitable for welding and in accordance with EN 470-1 and EN 531.
Respiratory protection	: Welder's protection against the release of vapor and gas must be provided by aeration or forced ventilation over the welding area. When using the product in a confined space or in case of excessive production of fumes, wear a welding mask with an integrated respiratory filter (FFP3 type) or self-ventilation system in accordance with EN 12941 standard.
Consumer exposure controls	: Avoid contact during pregnancy/while nursing.
Other information	: Do not eat, drink or smoke when using this product.

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	: No data available
Odour threshold	: No data available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 1000 - 1500 °C
Freezing point	: No data available
Boiling point	: No data available
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
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Solubility	: Material nearly insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available.
Oxidising properties	: No data available.
Explosive limits	: No data available

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according to Regulation (EC) No. 1907/2006 (REACH)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Product is not explosive.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Refer to Section 10 on Incompatible Materials.

10.5. Incompatible materials

Oxidizing agent. Strong acids.

10.6. Hazardous decomposition products

Welding fumes / gases.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Not classified
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Suspected of causing cancer.
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: Not classified
Specific target organ toxicity (repeated exposure)	: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Irritation: may cause irritation to the respiratory system.
Other information	: Welding fumes are evaluated possibly carcinogenic to humans "Group 2B" in IARC.

SECTION 12: Ecological information

12.1. Toxicity

No additional information available

12.2. Persistence and degradability

Fonte-Ni4, Ferro-Ni, Fonte BMP, Fe-Ni/Cu

Persistence and degradability	Not established.
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12.3. Bioaccumulative potential

Fonte-Ni4, Ferro-Ni, Fonte BMP, Fe-Ni/Cu

Bioaccumulative potential	Not established.
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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

: Avoid release to the environment

Fonte-Ni4, Ferro-Ni, Fonte BMP, Fe-Ni/Cu

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

SECTION 13: Disposal considerations

13.1. Waste treatment methods

- Regional legislation (waste) : Disposal must be done according to official regulations.
- Waste disposal recommendations : Do not dispose of with domestic waste. Dispose of contents/container in accordance with local/regional/national/international regulations.
- Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

No dangerous good in sense of transport regulations

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

- Dangerous for the environment : No
- Marine pollutant : No
- Other information : No supplementary information available.

14.6. Special precautions for user

14.6.1. Overland transport

No additional information available

14.6.2. Transport by sea

No additional information available

14.6.3. Air transport

No additional information available

14.6.4. Inland waterway transport

No additional information available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 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

No REACH Annex XVII restrictions

Contains REACH Candidate List substance(s): Nickel (EC 231-111-4, CAS 7440-02-0)

Seveso Information :

15.1.2. National regulations

No additional information available

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

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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Full text of R-, H- and EUH-phrases:

Carc. 2	Carcinogenicity, Category 2
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H335	May cause respiratory irritation
H351	Suspected of causing cancer
H372	Causes damage to organs through prolonged or repeated exposure
R34	Causes burns
R37	Irritating to respiratory system
R40	Limited evidence of a carcinogenic effect
R43	May cause sensitisation by skin contact
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation
C	Corrosive
T	Toxic
Xi	Irritant

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