



SAFETY DATA SHEET

This Safety Data Sheet complies with Regulation (EC) No 1907/2006, 1272/2008, ISO 11014-1 and ANSI Z400.1

ESAB Firepower 1109 solder wire

Version number: 1

Issued: 2017-08-08

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

1.1. Product identifier

Trade name ESAB Firepower 1109 solder wire

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

Use soldering for electronic parts and components

Not suitable for use in Not Available

1.3. Details of the supplier of the safety data sheet

SDS created by TDST

Supplier ESAB AB

Street address Box 8004
402 77 Göteborg
Sweden

Telephone +46 31 509000

Email sds.esab@esab.se

Web site www.esab.com

1.4. Emergency telephone number

Emergency phone number +46 31 509000

Available outside office hours No

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008, Annex VI

Classification Hazardous to the aquatic environment — Acute hazard category 2
Respiratory sensitisation, hazard category 1, sub-category 1B
Reproductive toxicity, hazard category 2
Specific Target Organ Toxicity — Repeated exposure, hazard category 2
Acute toxicity, inhalation, hazard category 1

Hazard statements H351, H360, H362, H372

2.2. Label elements

GHS labeling of the substance (in accordance with Regulation (EC) No 1272/2008, Annex VI)

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Pictogram



Signal word

Danger

Hazard statements

H351 Suspected of causing cancer.
H360 May damage fertility or the unborn child.
H362 May cause harm to breast-fed children.
H372 Causes damage to organs through prolonged or repeated exposure.

Precaution statements

P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P263 Avoid contact during pregnancy/while nursing.
P264 Wash hands and other parts of the body thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P308 + P313 IF exposed or concerned: Get medical advice/attention.
P314 Get medical advice/attention if you feel unwell.
P405 Store locked up.
P501 Dispose of contents/container to according to local regulations.

2.3. Other hazards

Not applicable

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No.	Concentration	Classification	R-phrase H-phrase
Lead	7439-92-1 231-100-4	68 - 70%	- STOT RE 1	- H351, H360, H362, H372
Tin	7440-31-5 231-141-8	28 - 31%	- -	- -
Water soluble organic substance	Business secret -	2 - 2,5%	- -	- -

SECTION 4: First aid measures

4.1. Description of first aid measures

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Inhalation

If breathing has stopped, perform artificial respiration and obtain medical assistance immediately! If breathing is difficult, provide fresh air and call physician.

Skin contact

Wash affected skin with water and mild soap.

Eye contact

Rinse opened eye for several minutes under running water. Remove contact lenses. If symptoms persist, consult a doctor.

Ingestion

Induce vomiting if person is conscious. Obtain medical attention.

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

Inhalation may damage respiratory tract

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

Let medical staffs know involved matter, to take measures to protect themselves.

Other

Information to rescue personnel

Provide general measures, according to the treatment of symptoms

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

dry chemical, carbon dioxide, sandy soil

Unsuitable extinguishing media

Once-through water

5.2. Special hazards arising from the substance or mixture

Heated to break down, or under the condition of fire, will release carbon monoxide, carbon dioxide, aliphatic aldehydes.

5.3. Advice for firefighters

Not applicable

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoiding contact with eye and skin, and inhalation

6.2. Environmental precautions

Do not allow to enter sewers/ surface or ground water. Inform respective authorities in case of seepage into water course or sewage system.

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6.3. Methods and material for containment and cleaning up

Not applicable

6.4. Reference to other sections

Not applicable

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Develop healthy habit, avoid contact with skin and eyes. Washing after handling, equipped personal protection device. Washing hands and avoiding inhalation.

7.2. Conditions for safe storage, including any incompatibilities

Far away from fire source, strong acid and alkali, Store in Dry and cool space

7.3. Specific end use(s)

Not applicable

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits

Use industrial hygiene monitoring equipment to ensure that exposure does not exceed applicable national exposure limits. The following limits can be used as guidance. Unless noted, all values are for 8 hour time weighted averages (TWA).

National occupational exposure limits

Ingredient	CAS no.	EC No.	Exposure limit mg/m ³ -ppm		Short-term exposure limit mg/m ³ -ppm		Remark	Source	Year
Tin	7440-31-5	231-141-8	2	-	-	-	as Sn	OSHA	2016
Lead	7439-92-1	231-100-4	0,05	-	-	-	-	OSHA	2016
Water soluble organic substance	Business secret	-	-	-	-	-	-	-	-

8.2. Exposure controls

Technical precaution measures

According to good industrial hygiene and safety practice, wash hands after handling or in break.

Eye / face protection

May flash or contact eyes, please wear glasses

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Other skin protection Please in anti-static overalls

Respiratory protection Avoid inhalation of steam, please wear mask

Other

sanitary measures: Before break and after handling washing hands immediately. Operation based on good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	silvery Solid wire
Appearance, colour	Not applicable
Appearance, physical state	Solid
Auto-ignition temperature	Not Available
Boiling point	Not Available
Boiling range	Not Available
Decomposition temperature	Not applicable
Density	9.7g/cm ³ at 20°C
Evaporation rate	Not Available
Explosive properties	Not applicable
Flammability (solid, gas)	Not applicable
Flash point	Not applicable
Initial boiling point and boiling range	Not Available
Melting point / freezing point	258/183°C
molecular formula	Not Available
molecular weight	Not Available
Odour	Not applicable
Odour treshold	Not applicable
Oxidising properties	Not applicable

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Partition coefficient: n-octanol / water	Not applicable
pH value	Not Available
Relative density	Not applicable
Solubility	Not Available
Solubility in water	Insoluble in water
Surface tension	Not Available
Upper / lower flammability or explosive limits	Not applicable
Vapour density	Not applicable
Vapour pressure	Not applicable
Viscosity	Not Available

9.2. Other information

Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Not applicable

10.2. Chemical stability

Chemical stability Under the condition of normal operation and storage stability

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No hazardous reaction under normal use

10.4. Conditions to avoid

Conditions to avoid High temperature

10.5. Incompatible materials

Incompatible materials strong acids strong alkalis

10.6. Hazardous decomposition products

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Hazardous decomposition products

Carbonic oxide, carbon dioxide, aliphatic aldehydes

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Information on toxicological effects	Not Available
acute toxicity	Not applicable
skin corrosion/irritation	Not classified
serious eye damage/irritation	Not classified
Respiratory/skin sensitization	Not classified
germ cell mutagenicity	Not classified
Genotoxicity	Not applicable
carcinogenicity	Not classified
reproductive toxicity	Not classified
STOT-single exposure	Not classified
STOT-repeated exposure	Not classified
Aspiration hazard	Not applicable
LD50 Oral	rat 5mg/kg (IUCLID)
LD50 Dermal	Not Available
LC50 Inhalation	rat 40000 ppm 4 hr. (RTECS)

SECTION 12: Ecological information

12.1. Toxicity

Acute fish toxicity Not Available

Acute algae toxicity Not Available

12.2. Persistence and degradability

Persistence and degradability Not Available

12.3. Bioaccumulative potential

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Bioaccumulative potential Not Available

12.4. Mobility in soil

Mobility Not Available

12.5. Results of PBT and vPvB assessment

Not applicable

12.6. Other adverse effects

Other adverse effects Not Available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations According to local regulation

Packaging Not Available

SECTION 14: Transport information

14.1. UN number

Not applicable

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

Not applicable

14.6. Special precautions for user

Special precautions for user See 2.2

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

Not applicable

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SECTION 15: Regulatory information

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

Other regulations, limitations and legal regulations

if recorded by chemical catalogues of other countries

IECSC: No recorded

EINECS: No recorded

EPA TSCA: No recorded

DSL/NDL: No recorded

Below laws, regulations and standards, make relevant stipulation for safe handling, storage, transportation, loading and unloading, classification and mark of chemicals.

the production safety law of the people's republic of china

the occupational disease prevention law of the people's republic of china

the environmental protection law of the people's republic of china

Hazardous chemical materials safety management regulation

Safety production license

15.2. Chemical safety assessment

Not applicable

Other

Dispose should be accord with relevant law and regulation

SECTION 16: Other information

Changes to previous revision

All information based on our current date, the SDS (the chemical safety data sheet) is only for this product.

Phrase meaning

STOT RE 1 - Specific Target Organ Toxicity — Repeated exposure, hazard category 1

H351 - Suspected of causing cancer.

H360 - May damage fertility or the unborn child.

H362 - May cause harm to breast-fed children.

H372 - Causes damage to organs through prolonged or repeated exposure.

Other

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Additional information

ESAB requests the users of this product to study this Safety Data Sheet (SDS) and become aware of product hazards and safety information. To promote safe use of this product a user should: notify its employees, agents and contractors of the information on this SDS and any product hazards/safety information.

furnish this same information to each of its customers for the product.

request such customers to notify employees and customers for the same product hazards and safety information.

The information herein is given in good faith and based on technical data that ESAB believes to be reliable. Since the conditions of use is outside our control, we assume no liability in connection with any use of this information and no warranty, expressed or implied is given.

Contact ESAB for more information.