



SAFETY DATA SHEET

This Safety Data Sheet complies with Annex II of 830/2015 amending EC No. 1907/2006, CLP directive 1272/2008, also in accordance with ISO 11014-1 and ANSI Z400.1

136-028

Shield-Bright 308L

Issued: 2018-01-14

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

1.1. Product identifier

Trade name Shield-Bright 308L 35FA09982V

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

Use Arc Welding

1.3. Details of the supplier of the safety data sheet

SDS created by TDS Team

Supplier ESAB DENTON

Street address 2800 Airport Road
Denton, TX 76207

Telephone 1-800-372-2123

Email sdsrequest@esab.com

Web site www.esab.com

1.4. Emergency telephone number

Emergency phone number 1-800-372-2123

Available outside office hours No

Other

Classification(s):
AWS A5.22; E308LT1-1
AWS A5.22; E308LT1-4

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Description This product is not classified as hazardous.

2.2. Label elements

More information This product does not require labeling.



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2.3. Other hazards

This product contains nickel, which is classified as toxic by prolonged inhalation, a skin sensitizer and a suspect carcinogen. Nickel powder is harmful for the environment. This product contains potassium fluorosilicate, which is classified as toxic by inhalation, skin contact and ingestion. This product contains titanium dioxide which is possibly carcinogenic. This product contains quartz, but normally not in an inhalable fraction. Quartz can cause silicosis and may cause cancer. Avoid eye contact or inhalation of dust from this product. Skin contact is normally no hazard but should be avoided to prevent possible allergic reactions. Persons with a pacemaker should not go near welding or cutting operations until they have consulted their doctor and obtained information from the manufacturer of the device.

When this product is used in a welding process, the most important hazards are welding fumes, heat, radiation and electric shock.

Fumes: Overexposure to welding fumes may result in symptoms like metal fume fever, dizziness, nausea, dryness or irritation of the nose, throat or eyes. Chronic overexposure to welding fumes may affect pulmonary function. Prolonged inhalation of nickel and chromium compounds above safe exposure limits can cause cancer. Overexposure to manganese and manganese compounds above safe exposure limits can cause irreversible damage to the central nervous system, including the brain, symptoms of which may include slurred speech, lethargy, tremor, muscular weakness, psychological disturbances and spastic gait

Heat: Spatter and melting metal can cause burn injuries and start fires.

Radiation: Arc rays can severely damage eyes or skin.

Electricity: Electric shock can kill.

Other

Emergency Overview: Metal wires in varying colors. This product is normally not considered hazardous when transported. Gloves should be worn when handling to prevent cuts and abrasions.



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SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical name	CAS No. EC No. REACH No.	Concentration	Classification	R-phrase H-phrase
IRON	7439-89-6 231-096-4 Registered	40 - 70%	- -	- -
Chromium*	7440-47-3 231-157-5 -	10 - 30%	- -	- -
Titanium oxide**	13463-67-7 236-675-5 -	7 - 13%	- -	- -
Nickel powder	7440-02-0 231-111-4 -	5 - 10%	- Carc. 2, Aquatic Chronic 3, Skin Sens. 1, STOT RE 1	- H317, H351, H372, H412
Manganese	7439-96-5 231-105-1 -	1 - 5%	- -	- -
Zirconium oxide	1314-23-4 215-227-2 -	1 - 5%	- -	- -
Copper	7440-50-8 231-159-6 -	0,1 - 1%	- -	- -
Molybdenum	7439-98-7 231-107-2 -	0,1 - 1%	- -	- -
Potassium silicofluoride	16871-90-2 240-896-2 -	0,1 - 1%	- -	- -
Quartz*	14808-60-7 238-878-4 -	0,1 - 1%	- STOT RE 1	- H372
Silicon	7440-21-3 231-130-8 -	0,1 - 1%	- -	- -
Sodium Oxide	12401-86-4 215-208-9 -	0,1 - 1%	- -	- -
Zirconium	7440-67-7 231-176-9 -	0,1 - 1%	- -	- -

Product based on

This product is a preparation of flux-cored wire.



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SECTION 4: First aid measures

4.1. Description of first aid measures

Electric shock: Disconnect and turn off the power. Use a nonconductive material to pull victim away from contact with live parts or wires. If not breathing, begin artificial respiration, preferably mouth-to-mouth. If no detectable pulse, begin Cardio Pulmonary Resuscitation (CPR). call emergency physician to the scene of the accident.

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

For skin burns from arc radiation, promptly flush with cold water. Get medical attention for burns or irritations that persist. To remove dust or particles wash with mild soap and water.

Eye contact

For radiation burns due to arc flash, see physician. To remove dusts or fumes flush with water for at least fifteen minutes. If irritation persists, obtain medical assistance.

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

Not applicable

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

Not applicable

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

No specific recommendations for welding consumables. Welding arcs and sparks can ignite combustible and flammable materials. Use the extinguishing media recommended for the burning materials and fire situation.

5.2. Special hazards arising from the substance or mixture

Not applicable

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Wear self-contained breathing apparatus as fumes or vapors may be harmful.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear hand, head, eyes, ear and body protection like welders gloves, helmet or face shield with filter lens, safety boots, apron, arm and shoulder protection. Keep protective clothing clean and dry.

6.2. Environmental precautions

Refer to section 13.

6.3. Methods and material for containment and cleaning up

Solid objects may be picked up and placed into a container. Liquids or pastes should be scooped up and placed into a container. Wear proper protective equipment while handling these materials. Do not discard as refuse.



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6.4. Reference to other sections

Refer to section 8/13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Preventive handling precautions

Handle with care to avoid stings and cuts. Wear gloves when handling welding consumables. Avoid exposure to dust. Do not ingest. Some individuals can develop an allergic reaction to certain materials. Retain all warning and identity labels.

7.2. Conditions for safe storage, including any incompatibilities

Keep separate from chemical substances like acids and strong bases, which could cause chemical reactions.

7.3. Specific end use(s)

Arc Welding

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). For information about welding fume analysis refer to Section 10.



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National occupational exposure limits

Ingredient	CAS no.	EC No.	Exposure limit mg/m ³ -ppm		Short-term exposure limit mg/m ³ -ppm		Ceiling exposure limit mg/m ³ -ppm		Remark	Source	Year
Silicates	1312-76-1	215-199-1	-	-	-	-	-	-	-	OS HA	2016
Manganese	7439-96-5	231-105-1	-	-	-	-	5	-	as Mn (metal and fume)	OS HA	2016
Limestone	1317-65-3	215-279-6	15	-	-	-	-	-	Total dust	OS HA	2016
Limestone	1317-65-3	215-279-6	5	-	-	-	-	-	respirable fraction	OS HA	2016
Titanium oxide	13463-67-7	236-675-5	15	-	-	-	-	-	Total dust	OS HA	2016
Quartz	14808-60-7	238-878-4	-	-	-	-	-	-	30 mg/m ³ /%SiO ₂ +2, total dust, 10 mg/m ³ /%SiO ₂ +2, respir. dust(quartz, tripoli), Value calculated from respir. dust for mola for quartz(cristobalite, tridymite)	OS HA	2016
Fluorides	7789-75-5	232-188-7	2,5	-	-	-	-	-	-	OS HA	2016
Aluminium silicate	12141-46-7	235-253-8	15	-	-	-	-	-	total dust	OS HA	2016
Aluminium silicate	12141-46-7	235-253-8	5	-	-	-	-	-	respirable fraction	OS HA	2016
Chromium	7440-47-3	231-157-5	1	-	-	-	-	-	metal	OS HA	2016
Chromium	7440-47-3	231-157-5	0,5	-	-	-	-	-	as Cr(Cr(II) and Cr(III) inorganic compounds)	OS HA	2016
Chromium	7440-47-3	231-157-5	0,005	-	-	-	-	-	as Cr(VI)(water sol. and insoluble inorganic compounds)	OS HA	2016
Nickel powder	7440-02-0	231-111-4	1	-	-	-	-	-	as Ni	OS HA	2016
Iron	7439-89-6	231-096-4	-	-	-	-	-	-	NA	OS HA	2016



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8.2. Exposure controls

Not applicable

Other

Avoid exposure to welding fumes, radiation, spatter, electric shock, heated materials and dust. Train welders to avoid contact with live electrical parts and insulate conductive parts.



Ventilation

Ensure sufficient ventilation, local exhaust, or both, to keep welding fumes and gases from breathing zone and general area. Use special care when welding painted or coated steels since hazardous substances from the coating may be emitted. Use respirator or air supplied respirator when welding or brazing in a confined space, or where local exhaust or ventilation is not sufficient to keep exposure values within safe limits.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Steel wire
Appearance, colour	Varying color
Appearance, physical state	Solid
Auto-ignition temperature	Not applicable
Decomposition temperature	No data available
Evaporation rate	Not applicable
Explosive properties	Not applicable
Flammability (solid, gas)	Not applicable
Flash point	Not applicable
Initial boiling point and boiling range	No data available
Melting point	>1000°C / >1800°F
Melting point / freezing point	Not applicable
Odour	Not applicable
Odour treshold	Not applicable
Oxidising properties	Not applicable
Partition coefficient: n-octanol / water	Not applicable
pH	Not applicable



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pH value	Not applicable
Relative density	No data available
Solubility	No data available
Upper / lower flammability or explosive limits	No data available
Vapour density	Not applicable
Vapour pressure	Not applicable
Viscosity	Not applicable
Volatility	Not applicable

9.2. Other information

Not applicable

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity	Contact with chemical substances like acids or strong bases could cause generation of gas.
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10.2. Chemical stability

Chemical stability	This product is stable under normal conditions.
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10.3. Possibility of hazardous reactions

Possibility of hazardous reactions	Not applicable
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10.4. Conditions to avoid

Conditions to avoid	This product is only intended for normal welding purposes.
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10.5. Incompatible materials

Incompatible materials	Not applicable
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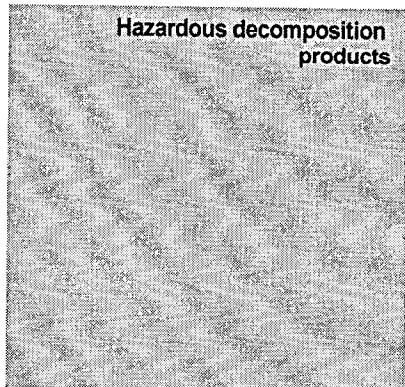
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10.6. Hazardous decomposition products



When this product is used in a welding process, hazardous decomposition products would include those from the volatilization, reaction or oxidation of the materials listed in Section 3 and those from the base metal and coating.

The amount of fumes generated from this product varies with welding parameters and dimensions, but is generally no more than 5 to 15 g/kg consumable. Fumes from this product may contain compounds of the following chemical elements: Fe, O, Mn, Zr, Cr, Ni, F, Na, Si, K, Mo, Cu, and Ti. The rest is not analyzed, according to available standards.

Fume Analysis/weight % less than

- Fe/20
- Mn/10
- F/10
- Ti/10
- Si/10
- Ni/5
- Cr/15

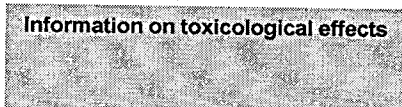
Other

Refer to applicable national exposure limits for fume compounds, including those exposure limits for fume compounds found in Section 8. A significant amount of the chromium in the fumes can be hexavalent chromium, which has a very low exposure limit in some countries. Manganese and nickel have low exposure limits, in some countries, that may be easily exceeded.

Reasonably expected gaseous products would include carbon oxides, nitrogen oxides and ozone. Air contaminants around the welding area can be affected by the welding process and influence the composition and quantity of fumes and gases produced.

SECTION 11: Toxicological information

11.1. Information on toxicological effects



Inhalation of welding fumes and gases can be dangerous to your health. Classification of welding fumes is difficult because of varying base materials, coatings, air contamination and processes. The International Agency for Research on Cancer has classified welding fumes as possibly carcinogenic to humans (Group 2B).



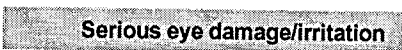
Acute toxicity

Overexposure to welding fumes may result in symptoms like metal fume fever, dizziness, nausea, dryness or irritation of the nose, throat or eyes.



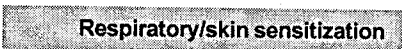
Skin corrosion/irritation

No data available



Serious eye damage/irritation

No data available



Respiratory/skin sensitization

No data available



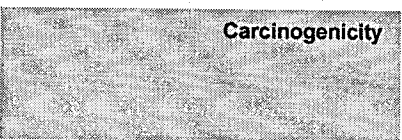
Germ cell mutagenicity

No data available



Genotoxicity

No data available



Carcinogenicity

*This product contains substance(s) that may cause cancer, which is/are classified as Carcinogenic to humans as per IARC. **This product contains substance(s) that may cause cancer, which is/are classified as Possibly carcinogenic to humans as per IARC. This product contains or produces a chemical known to the state of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code § 25249.5 et seq.)



Repeated dose toxicity

No data available



Reproductive toxicity

No data available



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STOT-single exposure	No data available
STOT-repeated exposure	No data available
Aspiration hazard	No data available
LD50 Oral	No data available
LD50 Dermal	No data available
LC50 Inhalation	No data available
Routes of exposure	No data available
Symptoms related to the physical, chemical and toxicological characteristics	No data available
Mixture versus substance information	No data available
Delayed and immediate effects as well as chronic effects from short and long-term exposure	No data available
Interactive effects	No data available
Toxicity in case of skin contact	No data available
Absence of specific data	No data available
Toxicity in case of eye contact	No data available
Mixtures	No data available
Toxicity in case of ingestion	No data available

Other

Acute effects	No data available
Long term effect	Chronic toxicity: Overexposure to welding fumes may affect pulmonary function. Prolonged inhalation of nickel and chromium compounds above safe exposure limits can cause cancer. Overexposure to manganese and manganese compounds above safe exposure limits can cause irreversible damage to the central nervous system, including the brain, symptoms of which may include slurred speech, lethargy, tremor, muscular weakness, psychological disturbances and spastic gait. Prolonged inhalation of titanium dioxide above safe exposure limits can cause cancer. Inhalable quartz is a respiratory carcinogen however the process of welding converts crystalline quartz to the amorphous form which is not considered to be a carcinogen.
Information to doctor	No data available



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SECTION 12: Ecological information

12.1. Toxicity

Acute toxicity	No data available
Toxicity	No data available
Aquatic	No data available
Soil	No data available
Acute fish toxicity	No data available
Acute algae toxicity	No data available
Acute crustacean toxicity	No data available
Chronical toxicity	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

12.2. Persistence and degradability

Persistence and degradability	No data available
Decay/transformation	No data available

12.3. Bioaccumulative potential

Bioaccumulative potential	No data available
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12.4. Mobility in soil

Mobility	No data available
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12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment	No data available
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12.6. Other adverse effects

Other adverse effects	No data available
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Other

Welding consumables and materials could degrade/weather into components originating from the consumables or from the materials used in the welding process. Avoid exposure to conditions that could lead to accumulation in soils or groundwater. This product contains Nickel powder which is classified as harmful to aquatic organisms by 1272/2008 CLP Directive and may cause long-term adverse effects in the aquatic environment.



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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal considerations

Discard any product, residue, disposable container or liner in an environmentally acceptable manner, in full compliance with federal and local regulations. Use recycling procedures if available. USA RCRA: Unused products or product residue containing chromium is considered hazardous waste if discarded, RCRA ID Characteristic Toxic Hazardous Waste D007. <https://rcrainfo.epa.gov/rcrainfoweb/action/modules/main/glossary/waste;jsessionid=A98F2456754BC0CE970C52F4E3AA429F> Residues from welding consumables and processes could degrade and accumulate in soils and groundwater. Welding slag from this product typically contain mainly the following components originating from the powder filling of the flux cored wire: Fe, O, Mn, Zr, Cr, Ni, F, Na, Si, K, Mo, Cu, and Ti.

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

Not applicable

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

EU regulations

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL. of 19 November 2008. on waste and repealing certain Directives.

European Parliament and Council Directive 94/62/EC of 20 December 1994 on packaging and packaging waste.

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Other regulations, limitations and legal regulations

Poland Regulations:

ACT of 25 February 2011 on the chemical substances and their mixtures(OJ # 63, poz. 322).

Regulation of the Minister of Labour and Social Policy of 6 June 2014 on Maximum Permissible Concentration and Intensity of Agents Harmful to Health in the Working Environment (Dz. u. z. 2014, poz 817).

The Act on Waste of 14 December 2012, Journal of Laws of 2013, item 21 with amendments

Act of 13th June 2013 on packaging management and packaging waste (Journal of Laws of 2013, item 888).

Regulation of the Minister of the Environment of 9 December 2014 on waste catalogue (Journal of Laws of 2014, item 1923).

Regulation of the Minister of Economy of 21 December 2005. Concerning essential requirements for personal protective equipment (Journal. Laws No. 259, item. 2173).

Regulation of the Minister of Health of 2 February 2011 on tests and measurements of factors harmful to health in the working environment (the Journal of Laws 2011, no. 33, item 166).

USA Regulations :

USA: This product contains or produces a chemical known to the state of California to cause cancer and birth defects (or other reproductive harm). (California Health & Safety Code § 25249.5 et seq.)

CERCLA/SARA Title III Reportable Quantities (RQs) and/or Threshold Planning Quantities (TPQs): Product is a solid solution in the form of a solid article. Spills or releases resulting in the loss of any ingredient at or above its RQ require immediate notification to the National Response Center and to your Local Emergency Planning Committee.

EPCRA/SARA Title III 313 Toxic Chemicals: The following metallic components are listed as SARA 313 "Toxic Chemicals" and potential subject to annual SARA 313 reporting. See Section 3 for weight percent.

Manganese: 1.0% de minimis concentration

Nickel powder : 0.10% de minimis concentration

Chromium: 1.0% de minimis concentration

Canada: WHMIS classification: Class D; Division 2, Subdivision A

International Inventories:

Australia: The substance(s) in this product is/are in compliance with the inventory requirements of Australian Inventory of Chemical Substances (AICS)

United States EPA Toxic Substance Control Act: All constituents of this product are on the TSCA inventory list or are excluded from listing.

Canadian Environmental Protection Act (CEPA): All constituent(s) of this product is/are on the Domestic Substance List (DSL).

15.2. Chemical safety assessment

Chemical safety assessment

No data available

Other

Read and understand the manufacturer's instructions, your employer's safety practices and the health and safety instructions on the label. Observe any federal and local regulations. Take precautions when welding and protect yourself and others.

WARNING: Welding fumes and gases are hazardous to your health and may damage lungs and other organs. Use adequate ventilation.

ELECTRIC SHOCK can kill. **ARC RAYS** and **SPARKS** can injure eyes and burn skin.

Wear correct hand, head, eye and body protection.

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SECTION 16: Other information

Changes to previous revision

This Safety Data Sheet has been revised due to modifications to Sections 1-16.

References to key literature and data sources

Refer to ESAB "Welding and Cutting - Risks and Measures", F52-529 "Precautions and Safe Practices for Electric Welding and Cutting" and F2035 "Precautions and Safe Practices for Gas Welding, Cutting and Heating" available from ESAB, and to:

USA: Contact ESAB at www.esabna.com or 1-800 ESAB-123 if you have any questions about this SDS.

USA: American National Standard Z49.1 "Safety in Welding and Cutting", American Welding Society, 550 North Le Jeune Road, Miami Florida 33135. Safety and Health Fact Sheets available from AWS at www.aws.org.

USA: OSHA Publication 2206 (29 C.F.R. 1910), U.S. Government Printing Office, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954

USA: American Conference of Governmental Hygienists (ACGIH), Threshold Limit Values and Biological Exposure Indices, 6500 Glenway Ave., Cincinnati, Ohio 45211, USA.

USA: NFPA 51B "Standard for Fire Prevention During Welding, Cutting, and Other Hot Work" published by the National Fire Protection Association, 1 Batterymarch Park, Quincy, MA 02169.

UK: WMA Publication 236 and 237, "Hazards from Welding Fume", "The arc welder at work, some general aspects of health and safety".

Germany: Unfallverhütungsvorschrift BGV D1, "Schweißen, Schneiden und verwandte Verfahren".

Canada: CSA Standard CAN/CSA-W117.2-01 "Safety in Welding, Cutting, and Allied Processes".

This product has been classified according to the hazard criteria of the CPR and the SDS contains all the information required by the CPR.

Phrase meaning

H317 - May cause an allergic skin reaction. Kan förårsage allergisk hudreaktion

H351 - Suspected of causing cancer.

H372 - Causes damage to the lungs through prolonged or repeated exposure by inhalation.

H412 - Harmful to aquatic life with long lasting effects.

Other

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 this product.

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

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