

This Safety Data Sheet complies with Annex II of 830/2015 amending EC No. 1907/2006,Commision Regulation (EU) 2020/878 amending CLP directive 1272/2008, also in accordance with ISO 11014-1 and ANSI Z400.1

Issued: 2022-06-16

Pipeweld 80DH

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

1.1. Product identifier

Trade name Pipeweld 80DH

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

Relevant identified uses Arc Welding

1.3. Details of the supplier of the safety data sheet

SDS created by	TDS Team
Supplier	ESAB AB
Street address	Box 8004 402 77 Göteborg Sweden
Telephone	+46 31 509000
Email	NoReply.tds@esab.com
Web site	www.esab.com

1.4. Emergency telephone number

Emergency phone number	+1 703-741-5970 & 1-800-424-9300
Available outside office hours	Yes
Other	

Other Classification: EN ISO 2560-A: E 46 4 B 45 H5 SFA/AWS A5.5: E8045-P2 H4R

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Description The product is not classified as hazardous according to applicable GHS hazard classification criteria.

2.2. Label elements

More information The product does not require labelling in accordance with CLP Regulation (EC) No 1272/2008.



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2.3. Other hazards This product contains titanium dioxide which is possibly carcinogenic. Avoid eye contact or inhalation of Other hazards dust from the 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. 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

Other

Emergency Overview: Metal wire or rods in varying colours. This product is normally not considered hazardous as shipped. 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. Index No.	Concentration	Classification	H-phrase M factor acute M factor chronic	Note
IRON(REACh Registered)	7439-89-6 231-096-4 - -	40 - 50%	-	-	-
Limestone	1317-65-3 215-279-6 - -	20 - 30%	-		-
TITANIUM OXIDE**	13463-67-7 236-675-5 - -	5 - 10%	-		-
MANGANESE	7439-96-5 231-105-1 - -	2 - 5%	-	-	-
Silicon	7440-21-3 231-130-8 - -	2 - 5%	-	-	-
Silicates	1344-09-8 215-687-4 - -	2 - 5%	-	-	-
FLUORIDES	7789-75-5 232-188-7 - -	1 - 2%	-		-

Product based on

This product is a preparation of core wire with extruded coating. The core wire type is mild steel.

Substance additional information

For the complete text of H- / EUH-statements mentioned in this section, see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

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.



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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	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

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

Suitable extinguishing media

ia 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

No data available

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

 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

Environmental precautions Refer to section 13.

6.3. Methods and material for containment and cleaning up

Methods and material for containment and cleaning up placed into a container. Wear proper protective equipment while handling these materials. Do not discard as refuse.

6.4. Reference to other sections

Reference to other sections Refer to section 8/13



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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	e, including any incompatibilities
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)	

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).

National occupational exposure limits

Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m³	Ceiling exposure limit ppm / mg/m³	Source	Remark	Year
Manganese	7439-96-5 231-105-1	- 0.02	-	ACGIH	as Mn	2019
FLUORIDES	7789-75-5 232-188-7	-	-	OSHA	No PEL	2019
SILICATE BINDER (SODIUM SILICATE)	1344-09-8 215-687-4	-	-	OSHA	No PEL	2019
MANGANESE	7439-96-5 231-105-1	-	- 5	OSHA	-	2019
Manganese	7439-96-5 231-105-1	- 0.1	-	ACGIH	for elemental and inorganic compounds	2019
TITANIUM OXIDE**	13463-67-7 236-675-5	- 15	-	OSHA	Total dust	2019
IRON(REACh Registered)	7439-89-6 231-096-4	-	-	OSHA	NO PEL	2019
Fluorides	7789-75-5 232-188-7	-	-	ACGIH	-	2019
SILICATE BINDER (SODIUM SILICATE)	1344-09-8 215-687-4	-	-	ACGIH	-	2019
Limestone	1317-65-3 215-279-6	-	-	ACGIH	-	2019



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Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m³	Ceiling exposure limit ppm / mg/m³	Source	Remark	Year
Silicon	231-130-8 231-130-8	- 15	-	OSHA	Total dust	2019
Limestone	1317-65-3 215-279-6	- 15	-	OSHA	Total dust	2019
Titanium dioxide**	13463-67-7 236-675-5	- 10	-	ACGIH	-	2019
Iron (REACh Registered)	7439-89-6 231-096-4	-	-	ACGIH	-	2019
Silicon	7440-21-3 231-130-8	-	-	ACGIH	-	2019
Silicon	7440-21-3 231-130-8	- 5	-	OSHA	Respirable Fraction	2019
Limestone	1317-65-3 215-279-6	- 5	-	OSHA	Respirable Fraction	2019

8.2. Exposure controls

Hand protection	Abrasion (Cycles):(Type A-2 (500));(Type B-1 (100)); Cut (Factor):(Type A-1 (1.2));(Type B-1 (1.2)); Tear (Newton):(Type A-2 (25));(Type B-1 (10)); Puncture (Newton):(Type A-2 (60));(Type B-1 (20)); Burning
	Behaviour:(Type A-3);(Type B-2); Contact Heat:(Type A-1);(Type B-1); Convective Heat:(Type A-2);(Type B); Small Splashes:(Type A-3);(Type B-2); Dexterity:(Type A-1 (11));(Type B-4 (6.5)) Type B gloves are recommended when high dexterity is required as for TIG welding, while type A gloves are
	recommended for other welding processes. The contact temp (oC) is 100 and the threshold time (seconds) >15.

Other

Other	Avoid exposure to welding fumes, radiation, spatter, electric shock, heated materials and dust.
Ventilation	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. Use special care when welding painted or coated steels since hazardous substances from the coating may be emitted. Ensure sufficient ventilation, local exhaust, or both, to keep welding fumes and gases from breathing zone and general area.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Solid, non-volatile with varying color.
Colour	No data available
Odour	No data available
Melting point / freezing point	>1300°C / >2300oF
Boiling point or initial boiling point and boiling range	No data available
Flammability	No data available



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No data available Lower and upper explosion limit No data available Flash point No data available Auto-ignition temperature **Decomposition temperature** No data available No data available pН No data available **Kinematic viscosity** Not applicable Viscosity, dynamic No data available Solubility Water solubility Not applicable Partition coefficient n-No data available octanol/water No data available Vapour pressure Density and/or relative density No data available **Relative density** Not applicable **Relative vapour density** No data available Not applicable **Evaporation Rate** Not applicable **Explosive properties** Not applicable **Oxidising properties** VOC % Not applicable 9.2. Other information

No data available

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity

Non Reactive unless gets in contact with chemical substances like acids or strong bases could cause generation of gas

10.2. Chemical stability

Chemical stability Stable at normal conditions

10.3. Possibility of hazardous reactions

No data available

10.4. Conditions to avoid

Conditions to avoid This product is only i

This product is only intended for normal welding purposes.



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10.5. Incompatible materials

No data available

10.6. Hazardous decomposition products

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 / Coated wire / Coated rod / Bare wire / Bare rod.
Other	
Other	Refer to applicable national exposure limits for fume compounds, including those exposure limits for fume compounds found in Section 8. Manganese has a low exposure limit, 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 hazard classes as defined in Regulation (EC) No 1272/2008

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 carcinogenic to humans (Group 1).
Acute toxicity	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 or skin sensitisation	No data available.
Germ cell mutagenicity	No data available.
Genotoxicity	No data available.
Carcinogenicity	

Product / Substance name CAS / EC no.	Other
TITANIUM OXIDE** 13463-67-7 / 236-675-5	**This product contains substance(s) that may cause cancer, which is/are classified as Possibly carcinogenic to humans as per IARC. This product can expose you to Titanium dioxide which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

Repeated dose toxicity No

No data available.

Reproductive toxicity No data available.

STOT-single exposure No data available.



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

11.2. Information on other hazards

No data available

Other

Acute effects	No data available.
Long term effect	Chronic toxicity: Overexposure to welding fumes may affect pulmonary function. 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.
Information to doctor	No data available.

SECTION 12: Ecological information

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12.2. Persistence and degradability		
	No data available	
12.3. Bioaccumulative potential		
	No data available	
12.4. Mobility in soil		
	No data available	
12.5. Results of PBT and vPvB assessment		
	No data available	
12.6. Endocrine disrupting properties		
	No data available	
12.7. Other adverse effects		
	No data available	
Other		
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.

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: This product is not considered hazardous waste if discarded.
	Residues from welding consumables and processes could degrade and accumulate in soils and groundwater.

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



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14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

 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. 	EU regulations	 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
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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 Family, Labour and Social Policy of 12th June 2018 on the Maximum Admissible Concentrations and Intensities of Harmful to Health Agents in the Working Environment (Dz. U. No 1286) The Act on Waste of 14 December 2012, Journal of Laws of 2013, item 21 with amendments
	The Act of Waste of 14 December 2012, Journal of Laws of 2010, Reff 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
	International Inventories:
	Australia: The substance(s) in this product is/are in compliance with the inventory requirements of Australia- Inventory of Industrial Chemicals (AIIC)
	United States EPA Toxic Substance Control Act: All constituents of this product are on the TSCA inventory list under active substances
	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.



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Other

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 hand, eyes and body protection. Keep protective clothing clean and dry.

SECTION 16: Other information	
Changes to previous revision	This Safety Data Sheet has been revised due to modification(s) to section(s) 16 Latest Revision of SDS as per Regulation and exposure limits – October 2021.
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: www.esab.com
Other	
Additional information	 USA: Contact ESAB at www.esabna.com or 1-800 ESAB-123 if you have any questions about this SDS. American National Standard Z49.1 "Safety in Welding and Cutting", ANSI/AWS F1.5 "Methods for Sampling and Analyzing Gases from Welding and Allied Processes", ANSI/AWS F1.1 "Method for Sampling Airborne Particles Generated by Welding and Allied Processes", AWSF3.2M/F3.2 "Ventilation Guide for Weld Fume", American Welding Society, 550 North Le Jeune Road, Miami Florida 33135. Safety and Health Fact Sheets available from AWS at www.aws.org. OSHA Publication 2206 (29 C.F.R. 1910), U.S. Government Printing Office, Superintendent of Documents, P.O. Box 371954, Pittsburgh, PA 15250-7954 American Conference of Governmental Hygienists (ACGIH), Threshold Limit Values and Biological Exposure Indices, 6500 Glenway Ave., Cincinnati, Ohio 45211, 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: Accident prevention regulation BGV D1, "Welding, Cutting and related procedures". 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. 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 hazards sand sontractors of the information on this SDS and any product hazards. The 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 nerein is given in good faith and based on t