

This Safety Data Sheet complies with Annex II of 830/2015 amending EC No. 1907/2006,Commision Regulation (EU) 2019/521 amending CLP directive 1272/2008, also in accordance with ISO 11014-1 and ANSI Z400.1

Issued: 2021-01-28

## **OK AristoRod 69**

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

1.1. Product identifier

Trade name OK AristoRod 69

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 AB
Street address	Box 8004 402 77 Göteborg Sweden
Telephone	+46 31 509000
Email	sdsrequest@esab.com
Web site	www.esab.com

#### 1.4. Emergency telephone number

Emergency phone number	44-870-8200418 and 44-2038073798
Available outside office hours	Yes
Other	

Other Classification(s): SFA/AWS A5.28: ER110S-G EN ISO 16834-A: G Mn3Ni1CrMo

## **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

The product is not classified

#### 2.2. Label elements

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 nickel, which is classified as toxic by prolonged inhalation, a skin sensitizer and a Other hazards suspect carcinogen. Nickel powder is harmful for the environment. In the form that nickel is present in this product it does not contribute to a hazard classification of 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. 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. disturbances and spastic gait. This product contains substances that may be sensitizing. 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 - -	90 - 100%	-	-	-
MANGANESE	7439-96-5 231-105-1 - -	1 - 2%	-	-	-
Nickel powder**	7440-02-0 231-111-4 - -	1 - 2%	Skin Sens. 1, STOT RE 1, Aquatic Chronic 3, Carc. 2	H317, H351, H372, H412 - -	-
Silicon	7440-21-3 231-130-8 - -	0 - 1%	-	-	-
COPPER	7440-50-8 231-159-6 - -	0 - 0.5%	-	-	-
CHROMIUM	7440-47-3 231-157-5 - -	0 - 0.5%	-	-	-

Product based on This product is a continuous solid metal wire.

## **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.
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



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**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*

 Personal precautions, protective
 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.

 procedures
 Procedures

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 as refuse. 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.

#### 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	Short-term exposure limit ppm / mg/m <sup>3</sup>	Source	Remark	Year
IRON(REACh Registered)	7439-89-6 231-096-4	-	-	UK WEL	-	2020
Manganese	7439-96-5 231-105-1	- 0.05	-	UK WEL	Respirable fraction	2020
Nickel powder**	7440-02-0 231-111-4	- 0.5	-	UK WEL	Sk, Carc (nickel oxides and sulphides) Sen (nickel sulphate)	2020
Silicon	7440-21-3 231-130-8	- 4	-	UK WEL	Respirable dust	2020
Copper	7440-50-8 231-159-6	- 1	- 2	UK WEL	Dust and mists	2020
Manganese	7439-96-5 231-105-1	- 0.2	-	UK WEL	Inhalable Fraction	2020
Nickel powder**	7440-02-0 231-111-4	- 0.1	-	UK WEL	Sk, Carc (nickel oxides and sulphides) Sen (nickel sulphate)	2020
Silicon	7440-21-3 231-130-8	- 10	-	UK WEL	Inhalable dust	2020
Copper	7440-50-8 231-159-6	- 0.2	-	UK WEL	Fume	2020



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<b>J</b>		ppm / mg/m³	Short-term exposure limit ppm / mg/m³	Source	Remark	Year
Chromium	7440-47-3 231-157-5	- 0.5	-	UK WEL	-	2020

#### 8.2. Exposure controls

Safety gloves	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. Train welders to avoid contact with live electrical parts and insulate conductive parts.
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

Appearance, physical state	Solid, non-volatile with varying color.
Appearance, colour	Not applicable
Odour	Not applicable
Odour treshold	Not applicable
pH value	Not applicable
Melting point / freezing point	>1000°C / >1800oF
Initial boiling point and boiling range	Not applicable
Flash point	Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	Not applicable
Upper / lower flammability or explosive limits	Not applicable
Vapour pressure	Not applicable



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Vapour density	Not applicable
Relative density	Not applicable
Solubility	Not applicable
Partition coefficient: n-octanol / water	Not applicable
Ignition temperature	Not applicable
Decomposition temperature	Not applicable
Viscosity, kinematic	Not applicable
Viscosity, dynamic	Not applicable
Explosive properties	Not applicable
Oxidising properties	Not applicable
9.2. Other information	
	Not applicable

## **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

Not applicable

10.4. Conditions to avoid

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

10.5. Incompatible materials

Not applicable

#### 10.6. Hazardous decomposition products

 Hazardous decomposition
 When this product is used in a welding process, hazardous decomposition products would include those

 products
 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.
 Bare rod.



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#### Other

**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

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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/skin sensitization	No data available		
Germ cell mutagenicity	No data available		
Genotoxicity	No data available		
Carcinogenicity			
Product / Substance name CAS / EC no.		Other	
		Other **This product contains substance(s) that may cause cancer, which is/are classified as Possibly carcinogenic to humans as per IARC.	
CAS / EC no. NICKEL POWDER**	No data available	**This product contains substance(s) that may cause cancer, which	
CAS / EC no. NICKEL POWDER** 7440-02-0 / 231-111-4	No data available No data available	**This product contains substance(s) that may cause cancer, which	
CAS / EC no. NICKEL POWDER** 7440-02-0 / 231-111-4 Repeated dose toxicity		**This product contains substance(s) that may cause cancer, which	
CAS / EC no. NICKEL POWDER** 7440-02-0 / 231-111-4 Repeated dose toxicity Reproductive toxicity	No data available	**This product contains substance(s) that may cause cancer, which	
CAS / EC no. NICKEL POWDER** 7440-02-0 / 231-111-4 Repeated dose toxicity Reproductive toxicity STOT-single exposure	No data available No data available	**This product contains substance(s) that may cause cancer, which	
CAS / EC no. NICKEL POWDER** 7440-02-0 / 231-111-4 Repeated dose toxicity Reproductive toxicity STOT-single exposure STOT-repeated exposure	No data available No data available No data available	**This product contains substance(s) that may cause cancer, which	
CAS / EC no. NICKEL POWDER** 7440-02-0 / 231-111-4 Repeated dose toxicity Reproductive toxicity STOT-single exposure STOT-repeated exposure Aspiration hazard	No data available No data available No data available No data available	**This product contains substance(s) that may cause cancer, which	



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#### Other

# 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. disturbances and spastic gait.

## **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** 

Product / Substance name CAS / EC no.	Remark
NICKEL POWDER**	This product contains Nickel powder which is classified as harmful to
7440-02-0 / 231-111-4	aquatic organisms by 1272/2008 CLP Directive and 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	

12.4. Mobility in soil

Mobility No data available

#### 12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB No data available assessment

12.6. Other adverse effects

Other adverse effects No data available



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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: Unused products or product residue containing chromium is considered hazardous waste if discarded, RCRA ID Characteristic Toxic Hazardous Waste D007. (https://rcrapublic.epa.gov/rcrainfoweb/action/modules/main/glossary/waste) 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 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

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 **EU** regulations 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	Poland Regulations:
and legal 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 Copper: 1.0% de minimis concentration Chromium: 1.0% de minimis concentration Nickel Powder: 0.1% 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 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 Not 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.

## **SECTION 16: Other information**

Changes to previous revision	This Safety Data Sheet has been revised due to modification(s) to section(s) 1-16 Previous Revision of SDS as per Regulation – April 2019; Latest Revision of SDS as per Regulation – May 2020
References to key literature and data sources	Refer to ESAB "Welding & Cutting - Risks and Measures", F52-529 "Precautions and Safe Practices for ARC WELDING, CUTTING & GOUGING" and F2035 "Precautions and Safe Practices for Gas Welding, Cutting and Heating" available from ESAB Website. www.esab.com
Phrase meaning	<ul> <li>Skin Sens. 1 - Skin sensitisation, hazard category 1</li> <li>STOT RE 1 - Specific Target Organ Toxicity — Repeated exposure, hazard category 1</li> <li>Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic hazard category 3</li> <li>Carc. 2 - Carcinogenicity, hazard category 2</li> <li>H317 May cause an allergic skin reaction.</li> <li>H351 Suspected of causing cancer.</li> <li>H372 Causes damage to organs through prolonged or repeated exposure.</li> <li>H412 Harmful to aquatic life with long lasting effects.</li> </ul>



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#### 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. 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 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.