

## SAFETY DATA SHEET

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

Issued: 2020-05-18

### All-State RC No. 20

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

### 1.1. Product identifier

**Trade name** All-State RC No. 20

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

**Use** Hot Spraying

### 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** +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

**Danger classes** Skin sensitisation, hazard category 1, sub-category 1A  
Skin sensitisation, hazard category 1, sub-category 1B  
Carcinogenicity, hazard category 2  
Specific Target Organ Toxicity — Single exposure, hazard category 1

**Hazard phrases** H317, H351, H372, H412, H413

### 2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

**Danger codes**



**Signal word**

Danger

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#### Hazard phrases

H317 May cause an allergic skin reaction.  
H351 Suspected of causing cancer.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.  
H413 May cause long lasting harmful effects to aquatic life.

#### Safety phrases

P261 Avoid breathing .  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P302 + P352 IF ON SKIN: Wash with plenty of water/.  
P333 +P313 If skin irritation or rash occurs: Get medical advice/attention.  
P321 Specific treatment (see on this label).  
P362 + P364 Take off contaminated clothing and wash it before reuse.  
P501 Dispose of contents/container to .  
P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P308 + P313 IF exposed or concerned: Get medical advice/attention.  
P405 Store locked up.  
P260 Do not breathe .  
P264 Wash thoroughly after handling.  
P270 Do not eat, drink or smoke when using this product.  
P314 Get medical advice/attention if you feel unwell.  
P273 Avoid release to the environment.

#### 2.3. Other hazards

Not applicable

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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-phrases M factor acute M factor chronic	Note
Nickel powder**	7440-02-0 231-111-4 - -	60 - 100%	Skin Sens. 1, STOT RE 1, Aquatic Chronic 3, Carc. 2	H317, H351, H372, H412 - -	-
CHROMIUM	7440-47-3 231-157-5 - -	10 - 30%	-	- - -	-
Boron	7440-42-8 231-151-2 - -	1 - 5%	-	- - -	-
IRON(REACH Registered)	7439-89-6 231-096-4 - -	1 - 5%	-	- - -	-
MOLYBDENUM	7439-98-7 231-107-2 - -	1 - 5%	-	- - -	-
SILICON	7440-21-3 231-130-8 - -	1 - 5%	-	- - -	-
COPPER	7440-50-8 231-159-6 - -	1 - 5%	-	- - -	-
COBALT**	7440-48-4 231-158-0 - -	0.1 - 1%	Skin Sens. 1, Aquatic Chronic 4, Resp. Sens. 1	H317, H334, H413 - -	-
MANGANESE	7439-96-5 231-105-1 - -	0.1 - 1%	-	- - -	-
TUNGSTEN	7440-33-7 231-143-9 - -	0.01 - 1%	-	- - -	-

Product based on

These Products are Powders

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## 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 CPR Call a physician immediately.

General: Move to fresh air and call for medical aid.

#### 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 hot spraying consumables. Hot spraying operations can ignite combustible and flammable materials. Use the extinguishing media recommended for the burning materials and fire situation. Wear self-contained breathing apparatus as fumes or vapors may be harmful.

### 5.2. Special hazards arising from the substance or mixture

Not applicable

### 5.3. Advice for firefighters

Not applicable

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### Personal precautions, protective equipment and emergency procedures

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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#### 6.2. Environmental precautions

**Environmental precautions** Refer to section 13.

#### 6.3. Methods and material for containment and cleaning up

Not applicable

#### 6.4. Reference to other sections

**Reference to other sections** Refer to section 8/13

## SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Preventive handling precautions** Wear gloves when handling hot spraying 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

**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)** Hot Spraying

## 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/m <sup>3</sup>	Short-term exposure limit ppm / mg/m <sup>3</sup>	Ceiling exposure limit ppm / mg/m <sup>3</sup>	Source	Remark	Year
Nickel Powder **	7440-02-0 231-111-4	- 1	- -	- -	OSHA	as Ni	2019
Nickel Powder **	7440-02-0 231-111-4	- 1.5	- -	- -	ACGIH	elemental	2019
Nickel Powder **	7440-02-0 231-111-4	- 0.2	- -	- -	ACGIH	insoluble inorganic compounds	2019
Nickel Powder **	7440-02-0 231-111-4	- 0.1	- -	- -	ACGIH	soluble inorganic compounds	2019
CHROMIUM	7440-47-3 231-157-5	- 1	- -	- -	OSHA	as Metal	2019

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Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m <sup>3</sup>	Short-term exposure limit ppm / mg/m <sup>3</sup>	Ceiling exposure limit ppm / mg/m <sup>3</sup>	Source	Remark	Year
CHROMIUM	7440-47-3 231-157-5	- 0.5	- -	- -	OSHA	as Cr(Cr(II) and Cr(III) inorganic compds)	2019
CHROMIUM	7440-47-3 231-157-5	- 0.03	- -	- -	ACGIH	Water Soluble, Chromium (III) compounds (as Cr)	2019
CHROMIUM	7440-47-3 231-157-5	- 0.0002	- -	- -	ACGIH	Chromium (VI) compounds	2019
CHROMIUM	7440-47-3 231-157-5	- 0.0005	- -	- -	ACGIH	Water Soluble, Chromium (VI) compounds	2019
Boron	7440-42-8 231-151-2	- -	- -	- -	OSHA	-	2019
Boron	7440-42-8 231-151-2	- -	- -	- -	ACGIH	-	2019
COPPER	7440-50-8 231-159-6	- 0.1	- -	- -	OSHA	as Cu (Fume)	2019
COPPER	7440-50-8 231-159-6	- 1	- -	- -	OSHA	as Cu (dust,mist)	2019
COPPER	7440-50-8 231-159-6	- 0.2	- -	- -	ACGIH	Fume (as Cu)	2019
COPPER	7440-50-8 231-159-6	- 1	- -	- -	ACGIH	Dusts and mists (as Cu)	2019
COPPER	7440-50-8 231-159-6	- 0.1	- -	- -	ACGIH	Cotton dust	2019
Iron (REACH Registered)	7439-89-6 231-096-4	- -	- -	- -	OSHA	No PEL	2019
Iron (REACH Registered)	7439-89-6 231-096-4	- -	- -	- -	ACGIH	-	2019
Molybdenum	7439-98-7 231-107-2	- 5	- -	- -	OSHA	as Mo (sol. compds)	2019
Molybdenum	7439-98-7 231-107-2	- 15	- -	- -	OSHA	Total dust (metal and insol. compds.)	2019
Molybdenum	7439-98-7 231-107-2	- 0.5	- -	- -	ACGIH	Soluble compounds; Respirable fraction	2019
Molybdenum	7439-98-7 231-107-2	- 10	- -	- -	ACGIH	Insoluble compounds	2019
Molybdenum	7439-98-7 231-107-2	- 3	- -	- -	ACGIH	Insoluble compounds; Respirable fraction	2019
Silicon	7440-21-3 231-130-8	- 15	- -	- -	OSHA	Total Dust	2019
Silicon	7440-21-3	-	-	-	OSHA	Respirable	2019

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Ingredient	CAS No. EC No.	Exposure limit ppm / mg/m <sup>3</sup>	Short-term exposure limit ppm / mg/m <sup>3</sup>	Ceiling exposure limit ppm / mg/m <sup>3</sup>	Source	Remark	Year
	231-130-8	5	-	-		Fraction	
Cobalt **	7440-48-4 231-158-0	- 0.1	- -	- -	OSHA	(as Co) Metal dust and fume	2019
Cobalt **	7440-48-4 231-158-0	- 0.02	- -	- -	ACGIH	as Co	2019
MANGANESE	7439-96-5 231-105-1	- -	- -	- 5	OSHA	as Mn	2019
MANGANESE	7439-96-5 231-105-1	- 0.02	- -	- -	ACGIH	as Mn	2019
MANGANESE	7439-96-5 231-105-1	- 0.1	- -	- -	ACGIH	for elemental and inorganic compounds	2019
TUNGSTEN	7440-33-7 231-143-9	- -	- -	- -	OSHA	No PEL	2019
TUNGSTEN	7440-33-7 231-143-9	- -	- -	- -	ACGIH	-	2019

#### 8.2. Exposure controls

##### Technical precaution measures

Ensure sufficient ventilation, local exhaust, or both, to keep hot spraying fumes and gases from breathing zone and general area. Keep working place and protective clothing clean and dry. Train welders to avoid contact with live electrical parts and insulate conductive parts.  
Check condition of protective clothing and equipment on a regular basis.

##### 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-2); 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

##### Personal protective equipment

Use respirator or air supplied respirator when hot spraying in a confined space, or where local exhaust or ventilation is not sufficient to keep exposure values within safe limits. Use special care when hot spraying painted or coated steels since hazardous substances from the coating may be emitted.  
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.

## SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

##### Appearance, physical state

Not applicable

##### Appearance, colour

Light to dark grey fine metal powder.

##### Odour

Not applicable

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<b>Odour threshold</b>	Not applicable
<b>pH value</b>	Not applicable
<b>Melting point / freezing point</b>	Not applicable
<b>Initial boiling point and boiling range</b>	Not applicable
<b>Flash point</b>	Not applicable
<b>Evaporation rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Not applicable
<b>Upper / lower flammability or explosive limits</b>	Not applicable
<b>Vapour pressure</b>	Not applicable
<b>Vapour density</b>	Not applicable
<b>Relative density</b>	Not applicable
<b>Solubility</b>	Not applicable
<b>Partition coefficient: n-octanol / water</b>	Not applicable
<b>Auto-ignition temperature</b>	Not applicable
<b>Decomposition temperature</b>	Not applicable
<b>Viscosity, kinematic</b>	Not applicable
<b>Viscosity, dynamic</b>	Not applicable
<b>Explosive properties</b>	Not applicable
<b>Oxidising properties</b>	Not applicable

#### 9.2. Other information

Not applicable

## SECTION 10: Stability and reactivity

#### 10.1. Reactivity

<b>Reactivity</b>	Contact with chemical substances like acids or strong bases could cause generation of gas.
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#### 10.2. Chemical stability

<b>Chemical stability</b>	This product is stable under normal conditions.
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#### 10.3. Possibility of hazardous reactions

Not applicable



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#### 10.4. Conditions to avoid

Not applicable

#### 10.5. Incompatible materials

Not applicable

#### 10.6. Hazardous decomposition products

##### Hazardous decomposition products

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 also have low exposure limits, in some countries, that may be easily exceeded.

##### Other

##### Other

These products are only intended for normal hot spraying purposes.

## SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Information on toxicological effects

Inhalation of hot spraying fumes and gases can be dangerous to your health. Classification of hot spraying 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

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 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

##### 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

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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
Toxicity in case of inhalation	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	
Other	No data available
Acute effects	No data available
Long term effect	No data available
Information to doctor	No data available

## 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

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#### Chronical toxicity

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.  
This product contains cobalt, which is classified by CLP Directive Regulation (EC) No 1272/2008, as toxic to aquatic organisms 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 assessment

No data available

#### 12.6. Other adverse effects

##### Other adverse effects

No data available

#### Other

##### Other

No data available

##### Biological decay

No data available

##### Additional instructions

No data available

## 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.

## SECTION 14: Transport information

#### 14.1. UN number

Not applicable

#### 14.2. UN proper shipping name

Not applicable

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#### 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

## 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: 0.1% de minimis concentration  
Chromium: 1.0% de minimis concentration  
Copper: 1.0% de minimis concentration  
Cobalt: 0.1% de minimis concentration 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

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. 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 modifications to Sections 1-16.  
Previous Revision of SDS as per Regulation - January 2018; Latest Revision of SDS as per Regulation - April 2019

##### 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](http://www.esab.com)

##### Phrase meaning

Skin Sens. 1 - Skin sensitisation, hazard category 1  
Aquatic Chronic 4 - Hazardous to the aquatic environment — Chronic hazard category 4  
Resp. Sens. 1 - Respiratory sensitisation, hazard category 1  
STOT RE 1 - Specific Target Organ Toxicity — Repeated exposure, hazard category 1  
Aquatic Chronic 3 - Hazardous to the aquatic environment — Chronic hazard category 3  
Carc. 2 - Carcinogenicity, hazard category 2  
H317 May cause an allergic skin reaction.  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
H351 Suspected of causing cancer.  
H372 Causes damage to organs through prolonged or repeated exposure.  
H412 Harmful to aquatic life with long lasting effects.  
H413 May cause long lasting harmful effects to aquatic life.

## SAFETY DATA SHEET

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

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### All-State RC No. 20

Other

#### Additional information

USA: Contact ESAB at [www.esabna.com](http://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", 550 North Le Jeune Road, Miami Florida 33135. Safety and Health Fact Sheets available from AWS at [www.aws.org](http://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 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 products -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.