Page 1/13

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.02.2022

Version number 35

Revision: 09.11.2021

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

#### · 1.1 Product identifier

- · Trade name: Thermanit 25/09 CuT
- · CAS Number: -
- · EINECS Number: -
- **1.2 Relevant identified uses of the substance or mixture and uses advised against** No further relevant information available.
- Application of the substance / the mixture Rods and Wires for Welding The product is a manufactured article in the sense of Article 3 No. 3, 1907/2006/EC (REACh). The purpose of the present safety data sheet is therefore to provide instruction on safe usage of the product.
- · 1.3 Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

voestalpine Böhler Welding Germany GmbH Hafenstr. 21 59067 Hamm, Germany www.voestalpine.com/welding

· Further information obtainable from:

Research and Development Helena Stabel +49 2381 271 - 578; Helena.Stabel@voestalpine.com

· 1.4 Emergency telephone number:

NCEC

+44 1235 239670

- **SECTION 2: Hazards identification**
- · 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008
   The Product does not meet the criteria for classification in any hazard class according to Regulation (EC) No
  1272/2008 on classification, labelling and packaging of substances and mixtures.
- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · 2.3 Other hazards
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

(Contd. on page 2)

EU

Page 2/13

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.02.2022

Version number 35

Revision: 09.11.2021

(Contd. of page 1)

Trade name: Thermanit 25/09 CuT

Dangerous components:		
CAS: 7440-47-3 EINECS: 231-157-5 Reg.nr.: 01-2119485652-31-XXXX	chromium substance with a Community workplace exposure limit	25-50%
CAS: 7440-02-0 EINECS: 231-111-4 Index number: 028-002-00-7 Reg.nr.: 01-2119438727-29-XXXX	nickel Carc. 2, H351; STOT RE 1, H372 Skin Sens. 1, H317	5-12.5%
CAS: 7439-96-5 EINECS: 231-105-1 Reg.nr.: 01-2119449803-34-XXXX	manganese substance with a Community workplace exposure limit	0.1-2.5%

• Additional information: For the wording of the listed hazard phrases refer to section 16.

#### SECTION 4: First aid measures

• **4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.

**SECTION 3: Composition/information on ingredients** 

- · General information: No special measures required.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: Seek medical treatment.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

#### SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- · Suitable extinguishing agents: Suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- For deletion of fire just use dry powders. Don't use any water or halogenated containing extinguishing agents
- · Protective equipment: No special measures required.

#### SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures
   Ensure adequate ventilation
   Use respiratory protective device against the effects of fumes/dust/aerosol.
   6.2 Environmental procautions: No special measures required
- 6.2 Environmental precautions: No special measures required.
- · 6.3 Methods and material for containment and cleaning up: Pick up mechanically.
- · 6.4 Reference to other sections

See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment.

(Contd. on page 3)

### voestalpine Böhler Welding

Page 3/13

### Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.02.2022

Version number 35

Revision: 09.11.2021

(Contd. of page 2)

Trade name: Thermanit 25/09 CuT

See Section 13 for disposal information.

#### SECTION 7: Handling and storage

- 7.1 Precautions for safe handling Ensure that suitable extractors are available on processing machines • Information about fire - and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: None.
- · 7.3 Specific end use(s) No further relevant information available.

#### SECTION 8: Exposure controls/personal protection

#### · 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

#### 7440-47-3 chromium

IOELV Long-term value: 2 mg/m<sup>3</sup>

as Cr

#### 7439-96-5 manganese

IOELV Long-term value: 0.2\* 0.05\*\* mg/m<sup>3</sup>

as Mn; \*inhalable, \*\*respirable fraction

- · Additional information: The lists valid during the making were used as basis.
- · 8.2 Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Respiratory protection: Filter P2
- Protection of hands:
- EN 12477

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- · Material of gloves Leather gloves
- **Penetration time of glove material** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- · Eye protection: Safety glasses
- · **Body protection:** Protective work clothing

#### **SECTION 9: Physical and chemical properties**

- · 9.1 Information on basic physical and chemical properties
- · General Information
- · Appearance:
- Form:
- Colour:
- · Odour:

Solid Not determined. Odourless

(Contd. on page 4)

EU

### voestalpine Böhler Welding

Page 4/13

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.02.2022

Version number 35

Revision: 09.11.2021

#### Trade name: Thermanit 25/09 CuT

	(Contd. of page
Odour threshold:	Not determined.
pH-value:	Not applicable.
Flash point:	Not applicable.
Flammability (solid, gas):	Not determined.
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Explosion limits: Lower: Upper:	Not determined. Not determined.
Density: Relative density Vapour density Evaporation rate water:	Not determined. Not determined. Not applicable. Not applicable. Insoluble.
Partition coefficient: n-octanol/ Dynamic: Kinematic:	water: Not determined. Not applicable. Not applicable.
Solvent separation test:	
Solids content:	100.0 %
9.2 Other information	No further relevant information available.

#### SECTION 10: Stability and reactivity

- · 10.1 Reactivity No further relevant information available.
- · 10.2 Chemical stability
- · Thermal decomposition / conditions to be avoided:
- No decomposition if used and stored according to specifications.
- · 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- · 10.5 Incompatible materials: No further relevant information available.
- · 10.6 Hazardous decomposition products: No dangerous decomposition products known.

#### **SECTION 11: Toxicological information**

- · 11.1 Information on toxicological effects
- · Acute toxicity Based on available data, the classification criteria are not met.
- · Primary irritant effect:
- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

(Contd. on page 5)

Page 5/13

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.02.2022

Version number 35

Revision: 09.11.2021

(Contd. of page 4)

ΕU

Trade name: Thermanit 25/09 CuT

- · Additional toxicological information:
- · Repeated dose toxicity
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- · Carcinogenicity Based on available data, the classification criteria are not met.
- · Reproductive toxicity Based on available data, the classification criteria are not met.
- · STOT-single exposure Based on available data, the classification criteria are not met.
- · STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.

#### **SECTION 12: Ecological information**

- · 12.1 Toxicity
- · Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- · 12.3 Bioaccumulative potential No further relevant information available.
- · 12.4 Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not hazardous for water.
- · 12.5 Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · 12.6 Other adverse effects No further relevant information available.

#### SECTION 13: Disposal considerations

- · 13.1 Waste treatment methods
- · Recommendation Must be specially treated adhering to official regulations.
- · European waste catalogue
- 12 01 13 welding wastes
- · Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

SECTION 14: Transport informat	ion	
· 14.1 UN-Number · ADR, ADN, IMDG, IATA	Void Void	
<ul> <li>14.2 UN proper shipping name</li> <li>ADR, ADN, IMDG, IATA</li> </ul>	Void	
<ul> <li>14.3 Transport hazard class(es)</li> </ul>		
· ADR, ADN, IMDG, IATA · Class	Void	
· 14.4 Packing group · ADR, IMDG, IATA	Void	
		(Contd. on page 6)

Page 6/13

### Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.02.2022

Version number 35

Revision: 09.11.2021

Trade name: Thermanit 25/09 CuT

	(Contd. of page s
<ul> <li>14.5 Environmental hazards:</li> <li>Marine pollutant:</li> </ul>	No
· 14.6 Special precautions for user	Not applicable.
<ul> <li>14.7 Transport in bulk according to Anne Marpol and the IBC Code</li> </ul>	ex II of Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	- Void

#### **SECTION 15: Regulatory information**

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

No further relevant information available.

- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 27
- DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
- None of the ingredients is listed.
- · Annex II REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

· Regulation (EC) No 273/2004 on drug precursors

7723-14-0 phosphorus

• Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

7723-14-0 phosphorus

· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### **SECTION 16: Other information**

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Additional information:

Recommendations for exposure scenarios, measures for risk management and identification of working conditions under which metals, metal alloys and products made of metal can be safely worked can be found attached. Detailed information can be found on our webpage www.voestalpine.com (Environment, REACH at voestalpine).

(Contd. on page 7)

2A

2

Page 7/13

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 17.02.2022

Version number 35

Revision: 09.11.2021

Trade name: Thermanit 25/09 CuT

	(Contd. of page 6)
Welding Exposure Scenario WES - ENGL Doc -5-2021 Page 1 of 6	
European Welding Association Page 1018	
Guidance and Recommendations for Exposure Scenarios, Risk Management Measures and to identify Operational Conditions under which metals, alloys and metallic articles and mixtures may be safely welded regarding welding fumes and gases exposure	
Welding/Brazing produces fumes, which can affect human health.	
Welding and allied processes generate a varying mixture of fumes (airborne particles) and gases, which, if inhaled or swallowed, constitute a health hazard-	
The degree of risk will depend on the composition of the fume, the concentration of the fume and duration of exposure.	
The fume composition is dependent upon the material being worked, the process and consumables being used, coatings on the work such as paint, galvanizing or plating, oil or contaminants from cleaning and degreasing activities.	
The amount of fumes generated is dependent on the welding process, the welding parameters, the shielding gas, the type of consumable and the potential coating on the work.	
A systematic approach to the assessment of exposure is necessary, taking into account the particular circumstances for the operator and ancillary worker that can be exposed.	
General Rules to reduce exposure to welding fumes and gases	
The employer shall ensure that the risk from welding fumes to the safety and health of workers is eliminated or reduced to a minimum. Start every new work with an Occupational Safety & Health Risk Inventory.	
The following principles shall be applied, unless local regulation say otherwise: <b>1.</b> Substitution: Select the applicable process/base material combinations with the lowest emission, whenever possible Set welding process with the lowest emission parameters (e.g. welding parameters/arc mode transfer, shielding gas composition) *	
<ol> <li>Technological Means: Apply the relevant collective protective measures (general ventilation, local exhaust ventilation) in accordance with class number.</li> </ol>	
<ol> <li>Organizational Measures: Limit the time a worker is exposed to welding fumes, Establish and apply Welding Procedure Specifications</li> <li>Personal Protective Equipment:</li> </ol>	
To protect the worker, wear the relevant personal protective equipment in accordance with the duty cycle	
In addition, compliance with the National Regulations regarding the exposure of welders and related personnel to welding fumes, their components with specific occupational exposure limit, and gaseous substances with specific occupational exposure limits shall be verified. It is therefore strongly recommended to seek clarification of specific national legislation that may apply.	
* In MIG / MAG process , innovative waveform controlled processes generate less welding fumes and particles than conventional processes - The use of such processes can be an additional measure to reduce the exposure of the welder and or workers	
	(Contd. on page 8)
	E

Page 8/13

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 17.02.2022

Version number 35

Revision: 09.11.2021

Trade name: Thermanit 25/09 CuT

Europ	ean Welding Asso		Welding Expo	osure Scenario WE	<b>S - ENGL</b> Doc -5-2021 Page 2 of 6	2	(Contd. of p
Risk Ma	inagement Measures fo	or Individual pro	ocess/base material co	ombinations			
Technol An appr allied pr The indi highest NOTE: T the curr encoura to elimit fume is For eac	ogical means is propos oximate ranking to mil rocess/base material co vidual process/base m emission ones (Class VI The International Institu- tent state of knowledg ages all those responsib- nate the excess risk of minimized, at least to re- ch class, general reco	ed in the table b igate the risk of mbination. aterial combina III). Ite of Welding (I ge, IIW confirms fe to reduce the e lung cancer, we aational guidelin	below. welding fumes and g tions are ranked from IIW) assessed the pub is the statement from exposure to welding fu Iders and their manag es. This IIW statement	al to be welded, a general gases exposure is given for ea in the lowest emission ones ( dication of IARC Monograph : 2011 on "Lung cancer and ume to a minimum. It also reco gers must ensure that exposu t is posted both on IIW and EW iction/Filtration and Person	ch welding or Class I) to the 118. Based on welding" and mmends that re to welding /A website.		
Equipmo	ent are proposed. Process (according to ISO 4063)	Base Materials	Remarks	Ventilation / Extraction / Filtration <sup>14</sup>	PPE <sup>2</sup> DC<15%	PPE <sup>2</sup> DC>15%	
	GTAW	1	Non-confined space		1		
	141           SAW           12           Autogenous           3           PAW           15           ESW/EGW           72/73           Resistance           2           Stud welding           78           Solid state           521	- - - - -	Except Aluminum	GV low <sup>a</sup>	n.r.	n.r.	
	Gases Brazing 9	All	Except Cd- alloys	GV low <sup>3</sup>	n.r.	n.r.	
П	GTAW 141	Aluminum	n.a.	GV medium⁴	n.a.	FFP2⁵	
111	MMAW 111 FCAW 136/137 GMAW 131/135 Powder Plasma Arc 152	All All All All	Except Be-, V-, Mn-, Ni- alloys and Stainless <sup>6</sup> Except Stainless and Ni- alloys <sup>6</sup> Except Cu-, Be-, V- alloys <sup>6</sup> Except Be-, V-, Cu-, Mn-, Ni-alloys and Stainless <sup>6</sup>	GV low <sup>7</sup> LEV low <sup>12</sup>	Improved helmet <sup>16</sup>	FFP2⁵	
IV	All processes class I All processes class III	Painted / primed / oiled / galvanized Painted /	No Pb containing primer	GV low <sup>3</sup>	FFP2 <sup>5</sup>	FFP3 <sup>8</sup> , TH2/P2,	
	A PIOCESSES Class III	primed / oiled /	No Pb containing primer	GV low 7 LEV low <sup>12</sup>	0.00000000	or LDH3	
v	MMAW 111 FCAW 136/137 GMAW 131 Powder Plasma Arc 152	galvanized Stainless, Ni-, Be-, and V- alloys Stainless, Mn- and Ni-alloys Cu-alloys Stainless, Mn-, Ni-, and Cu-	n.a.	LEV high <sup>10</sup>	TH3/P3, LDH3 <sup>11</sup>	TH3/P3, LDH3 <sup>11</sup>	

(Contd. on page 9) - EU

Page 9/13

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 17.02.2022

Version number 35

Revision: 09.11.2021

Trade name: Thermanit 25/09 CuT

Europ	ean Welding Asso	ociation		- <u>-</u>	oc -5-202: Page 3 of (	6
Class <sup>1</sup>	Process (according to ISO 4063)	<b>Base Materials</b>	Remarks	Ventilation / Extraction / Filtration <sup>14</sup>	PPE <sup>2</sup> DC<15%	PPE <sup>2</sup> DC>15%
VI	GMAW 131 Powder Plasma Arc 152	Be-, and V- alloys	Non-confined spa	Reduced (negative) pressured area <sup>9</sup> LEV low <sup>12</sup>	TH3/P3, LDH3 <sup>11</sup>	TH3/P3, LDH3 <sup>11</sup>
VII	Self shielded FCAW 114 Self-shielded FCAW 114	Un-, high alloyed steel Un-, high	Cored wire, not containing Ba Cored wire, containing Ba	Reduced (negative) pressured area <sup>9</sup> LEV medium <sup>13</sup>		
	All	alloyed steel Painted / primed / galvanized	Paint / Primer containing Pb	Reduced (negative) pressured area <sup>9</sup>	TH3/P3,	TH3/P3,
	Arc Gouging and Cutting 8 Thermal Spray	All	n.a.	LEV high <sup>10</sup>	LDH3 <sup>11</sup>	LDH3 <sup>11</sup>
	Gases Brazing	Cd- alloys	n.a.			
	Laser Welding	Clo	esed system or Confin	ed space <sup>15</sup>		1
*)	Laser Weiding 52 Laser Cutting 84 Electron Beam 51	All	Closed system	GV medium⁴	n.a.	n.a.
VIII	All	All	Confined space	LEV high <sup>10</sup> External air supply	LDH3 <sup>11</sup>	LDH311
	Filtrating half mask (FFP3 Reduced (negative) press surrounded area, is main Local Exhaust Ventilatior Helmet with powered filt Local Exhaust Ventilatior Local Exhaust Ventilatior Recommended measure ept unalloyed steel and alum A confined space, despit	Medium (double )) hable is used, mea Low. When no Lo 10), helmet with pow sured Area: A sep tained (LEV) High, extra- ters (THAJ/P3), or H (LEV) Low, extra- (LEV) Low, extra- (LEV) Medium, es s to comply with inum, shall be filt e its name, is not	compared to Low) sures from "Class V" a cal Exhaust Ventilatior vered filters (TH2/P2), c arate, ventilated area ction at source (includ traction at source) ered before release in necessarily small. Exa	re required , the ventilation requirement is 5-fo r helmet with external air supply (LDF where reduced (negative) pressure, as table, hood, arm or torch extracti r supply (LDH3) is table, hood, arm or torch extractio iudes table, hood, arm or torch extraction iudes table, hood, arm or torch extraction to be outside environment. mples of confined spaces include sh	i2) compared to on) action) all material	s
The follo exposur	tional Standards & EU I owing ISO standards an re to welding fumes and ion, national regulation	d European Unio I gases released	by welding and allie		essments o	f

(Contd. on page 10) EU

Page 10/13

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 17.02.2022

Version number 35

Revision: 09.11.2021

Trade name: Thermanit 25/09 CuT

(Contd. on page 11)

Page 11/13

# Safety data sheet according to 1907/2006/EC, Article 31

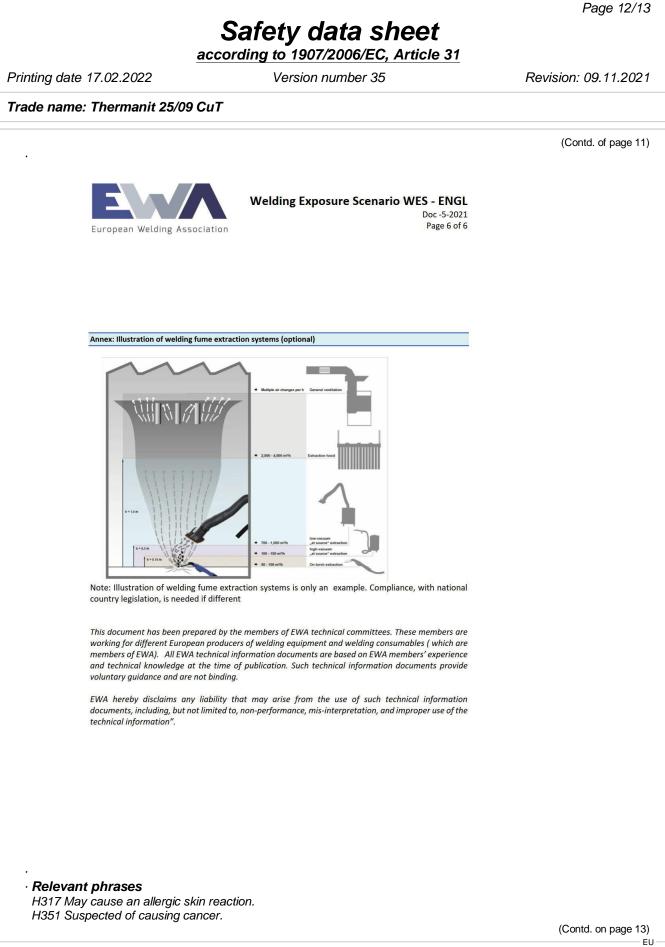
Printing date 17.02.2022

Version number 35

Revision: 09.11.2021

Trade name: Thermanit 25/09 CuT

	Welding Exposure Scenario WES - ENGL Doc -5-2021	
Europea	an Welding Association Page 5 of 6	
Use Descri	ptor System according to REACH Regulation	
	descriptor system is a system developed by ECHA <sup>1</sup> to facilitate chemical risk assessment and supply munication.	
such, they	imes and gases are secondary non-intentional byproducts generated during welding operations. As are not considered as substances or mixtures under REACH definition. They are not intended to be rkers or consumers.	
	occupational exposure to welding fumes and gases may represent a risk similar to the ones of the s and mixtures regulated by REACH.	
the health	ication of hazards, the evaluation of their risks and the putting in place of control measures to secure and safety can be implemented with REACH methodology. n has been applied to welding fumes and gases.	
	n firstly describes the Life Cycle Stage. The EWA welding consumable manufacturers define 2 life cycle nanufacture of the product and b) the application at an industrial site.	
Se Pr Pr Ar Er	, REACH uses five descriptors: ector of use (SU), [NOTE: previously listed SU3 and SU10 have been removed by ECHA <sup>1</sup> ] rocess category (PROC), roduct category (PC), tricle category (AC) and hvironmental release category (ERC) i dentified uses.	
The applica	able descriptors for welding consumables are:	
SU Industrial a	ire of consumables: J14 SU15 PC7 PC38 PROC5 PROC21 PROC22 PROC23 PROC24 PROC25 ERC 2 ERC3 AC7 and Professional welding: J15 SU17 PC7 PC38 PROC21 PROC22 PROC23 PROC24 PROC25 ERC5 ERC8c ERC8f AC1 AC2 AC7	
SU14	Manufacture of basic metals, including alloys	
SU15 SU17	Manufacture of fabricated metal products, except machinery and equipment General manufacturing, e.g. machinery, equipment, vehicles, other transport equipment	
PC7 PC38	Base metals and alloys Welding and soldering products, flux products	
PROC5 PROC21	Mixing or blending in batch processes Low energy manipulation of substances bound in materials and/or articles	
PROC22	Potentially closed processing operations with minerals/metals at elevated temperature. Industrial setting	
PROC23 PROC24	Open processing and transfer operations with minerals/metals at elevated temperature High (mechanical) energy work-up of substances bound in materials and/or articles	
PROC25	Other hot work operations with metals	
ERC2 ERC3	Formulation of preparations Formulation into solid matrix	
ERC5	Industrial use resulting in inclusion into or onto a matrix	
AC1 AC2	Vehicles Machinery, mechanical appliances, electrical/electronic articles	
AC7	Metal articles	
	nce on Information Requirements and Chemical Safety Assessment, Chapter R.12: Use description,	
versio	n 3.0 December 2015 (https://echa.europa.eu/documents/10162/13632/information requirements r12 en.pdf)	



Page 13/13

# Safety data sheet according to 1907/2006/EC, Article 31

Printing date 17.02.2022

Version number 35

Revision: 09.11.2021

Trade name: Thermanit 25/09 CuT

(Contd. of	page 12)
72 Causes damage to organs through prolonged or repeated exposure.	
partment issuing SDS: R&D	
ntact: Helena Stabel	
breviations and acronyms:	
C - National Chemical Emergency Centre (=Carechem24)	
R: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International angerous Goods by Road)	l Carriage
G. International Maritime Code for Dangerous Goods	
A: International Air Transport Association	
S: Globally Harmonised System of Classification and Labelling of Chemicals	
ECS: European Inventory of Existing Commercial Chemical Substances	
ICS: European List of Notified Chemical Substances	
Chemical Abstracts Service (division of the American Chemical Society)	
S: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)	
: Persistent, Bioaccumulative and Toxic	
B: very Persistent and very Bioaccumulative	
Sens. 1: Skin sensitisation – Category 1	
p. 2: Carcinogenicity – Category 2	
NT RE 1: Specific target organ toxicity (repeated exposure) – Category 1	
ata compared to the previous version altered.	
• • • • • • • • • • • • • • • • • • • •	