acc. to OSHA HCS

Printing date 01/12/2016

Reviewed on 12/21/2015

#### 1 Identification

- · Product identifier
- · Trade name: BOEHLER SG 2
- · CAS Number: -
- · EINECS Number: -
- · Application of the substance / the mixture Rods and Wires for Welding
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

voestalpine Böhler Welding Austria GmbH Böhler-Welding-St. 1 8605 Kapfenberg

Telefon: +43 (0) 3862 301-28-299 Fax: +43 (0) 3862 301-95-299 www.voestalpine.com/welding

· Information department:

Research and Development

DI Stefan Schormann

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· Emergency telephone number: +43 3862 301-0

### 2 Hazard(s) identification

· Classification of the substance or mixture

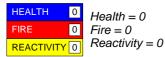
The product is not classified according to the Globally Harmonized System (GHS).

- · Label elements -
- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · NFPA ratings (scale 0 4)



Health = 0 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



- · Other hazards
- · Results of PBT and vPvB assessment
- PBT: Not applicable.vPvB: Not applicable.

#### 3 Composition/information on ingredients

- · Chemical characterization: Mixtures
- · Description: Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:					
CAS: 7439-96-5 EINECS: 231-105-1	manganese		0.1-2.5%		
CAS: 7440-21-3 EINECS: 231-130-8	silicon	Flam. Sol. 2, H228	0.1-2.5%		

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· nonhazardous components:

CAS: 7439-89-6 iron EINECS: 231-096-4 50-100%

#### 4 First-aid measures

- · Description of first aid measures
- · 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.
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed No further relevant information available.

#### 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Suitable to surrounding conditions
- · Special hazards arising from the substance or mixture No further relevant information available.
- Advice for firefighters -
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

· Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation

Use respiratory protective device against the effects of fumes/dust/aerosol.

- · Environmental precautions: No special measures required.
- · Methods and material for containment and cleaning up: Pick up mechanically.
- · Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

#### 7 Handling and storage

- · Handling:
- · Precautions for safe handling Ensure that suitable extractors are available on processing machines
- · Information about protection against explosions and fires: No special measures required.
- · 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.
- Specific end use(s) No further relevant information available.

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#### 8 Exposure controls/personal protection

- · Control parameters
- · Components with limit values that require monitoring at the workplace:

#### 7439-96-5 manganese

PEL | Ceiling limit value: 5 mg/m3

as Mn

REL Short-term value: 3 mg/m<sup>3</sup>

Long-term value: 1 mg/m3

fume, as Mn

TLV Long-term value: 0.02\* 0.1\* mg/m³ as Mn; \*respirable \*\*inhalable fraction

#### 7440-21-3 silicon

PEL Long-term value: 15\* 5\*\* mg/m³
\*total dust \*\*respirable fraction

REL Long-term value: 10\* 5\*\* mg/m³ \*total dust \*\*respirable fraction

TLV | TLV withdrawn

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Breathing equipment: Filter P2
- · Protection of hands:

Heat protection gloves (non-combustible)

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

#### · 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

Wear hand, head, and body protection which help to prevent injury from radiation, sparks, and electrical shock. See ANSI Z49.1. At a minimum this includes welder's gloves and a protective face shield, and may include arm protectors, aprons, hats, shoulder protection, and well as dark substantial clothing. Train the welder not to touch live electrical parts and to insulate himself from work and ground.

#### 9 Physical and chemical properties

- · Information on basic physical and chemical properties
- · General Information
- · Appearance:

Form: Solid

**Color:** According to product specification

Odor: OdorlessOdor threshold: Not determined.

· **pH-value:** Not applicable.

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not determined.

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		(Contd. of page 3
Decomposition temperature:	Not determined.	
· Auto igniting:	Product is not selfigniting.	
· Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits:		
Lower:	Not determined.	
Upper:	Not determined.	
Relative density	Not determined.	
Vapor density	Not applicable.	
Evaporation rate	Not applicable.	
Water:	Insoluble.	
Partition coefficient (n-octanol/wa	ater): Not determined.	
Dynamic:	Not applicable.	
· Kinematic:	Not applicable.	
· Organic solvents:	0.0 %	
· VOC content:	0.0 g/l / 0.00 lb/gl	
· Other information	No further relevant information available.	

#### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided:

No decomposition if used and stored according to specifications.

- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products:

Reasonably expected fume constituents of this product would include:

Cupper oxide.

copper oxide.

Chromoxide.

The present OSHA PEL (Permissible Exposure Limit) - published in the U.S. Federal Register 71, pages: 10099-10385 - for hexavalent Chromium (Cr +6) is 0.005 mg/m3 which will result in a significant reduction from the 5 mg/m3 general welding fume (NOC) level. It applies to soluble chromates of the types found in covered stainless electrode fumes.

Reasonably expected gaseous constituents would include Carbon monoxide and Carbon dioxide. Ozone and nitrogen oxides may be formed by the radiation from the arc. One recommended way to determine the composition and quantity of fumes and gases to which workers are exposed is to take an air sample from inside the welder's helmet if worn or in the worker's breathing zone. See ANSI/AWS F1.1 and ANSI/AWS F1.2-1992. In order to determine and evaluation of the existing problem areas, the standards EN ISO15011 –parts 1,4 can also be applied.

#### 11 Toxicological information

- · Information on toxicological effects
- · Additional toxicological information:

The product is not subject to classification according to internally approved calculation methods for preparations: When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

Workers exposed to hexavalent chrome (CrVI) are at an increased risk of developing lung cancer. It is also possible that occupational exposure to (CrVI) may result in asthma, and damage to the nasal epithelia and skin. To avoid any risk follow the requirements of the OSHA rule for hexavalent chromium published on February 28, 2006 in the U.S. Federal Register, pages:10099-10385 which established an 8-hour time-weighted average (TWA) exposure limit of 5 micrograms of hexavalent chrome per cubic meter of air (5  $\mu$ g/m³). This is a considerable reduction from

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the previous PEL of 1 milligram per 10 cubic meters of air (1 mg/10 m³, or 100 μg/m³) reported as Probably Chromium(VI)oxide, which is equivalent to a limit of 52 μg/m³ as (Cr+6)). This rule also contains ancillary provisions for worker protection such as requirements for exposure determination, preferred exposure control methods, including a compliance alternative for a small sector for which the new PEL is infeasible, respiratory protection, protective clothing and equipment, hygiene areas and practices, medical surveillance, recordkeeping, and start-up dates that include four years for the implementation of engineering controls to meet the PEL.

· Carcinogenic categories

IARC (Int	ernational Agency for Research on Cancer)	
7440-47-3	chromium	3
7440-38-2	arsenic	1
NTP (Nati	ional Toxicology Program)	W
	a (Occupational Safety & Health Administration)	K
7440-38-2	arsenic	

#### 12 Ecological information

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Generally not hazardous for water
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.
- · Other adverse effects No further relevant information available.

#### 13 Disposal considerations

- · Waste treatment methods
- · Recommendation: Must be specially treated adhering to official regulations.
- · Uncleaned packagings:
- · **Recommendation:** Disposal must be made according to official regulations.

· UN-Number		
· DOT, ADR, ADN, IMDG, IATA	Void	
· UN proper shipping name		
· DOT, ADR, ADN, IMDG, IATA	Void	
· Transport hazard class(es)		
· DOT, ADR, ADN, IMDG		
Class	Void	
· Class	Void	
	-	
		(Contd. on page

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· Packing group · DOT, ADR, IMDG, IATA	Void
· Environmental hazards: · Marine pollutant:	No
· Special precautions for user	Not applicable.
· Transport in bulk according to Annex MARPOL73/78 and the IBC Code	II of Not applicable.
· Transport/Additional information:	Not dangerous according to the above specifications.
· UN "Model Regulation":	- Void

### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara	
· Section 3	355 (extremely hazardous substances):
7440-47-3	chromium
7723-14-0	phosphorus
· Section 3	313 (Specific toxic chemical listings):
7439-96-5	manganese
7440-47-3	chromium
7440-50-8	
7723-14-0	phosphorus
7440-62-2	vanadium
7440-38-2	arsenic
7429-90-5	aluminium powder (pyrophoric)
· TSCA (To	oxic Substances Control Act):
7439-89-6	iron
7439-96-5	manganese
7440-21-3	silicon
7440-44-0	carbon
7440-47-3	
	molybdenum
7440-50-8	
	phosphorus
7704-34-9	
7440-62-2	
7440-32-6	
7440-38-2	
7429-90-5	aluminium powder (pyrophoric)

#### Proposition 65

7440-31-5 tin 7727-37-9 nitrogen

7440-38-2 arsenic	

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	Is known to cause reproductive toxicity for females: e ingredients is listed.		
	ls known to cause reproductive toxicity for males:		
None of th	e ingredients is listed.		
Chemica	ls known to cause developmental toxicity:		
None of th	e ingredients is listed.		
Cancara	genity categories		
	· · · · · ·		
•	rironmental Protection Agency)		
	manganese	D	
	chromium	D	
7440-50-8		D	
7723-14-0	phosphorus	D	
7440-38-2	arsenic	A	
7440-42-8	boron	1 (0	ora
TLV (Thr	eshold Limit Value established by ACGIH)	<u> </u>	
7440-47-3	chromium		Α
7439-98-7	molybdenum		Α
7440-38-2	arsenic		Α
	aluminium powder (pyrophoric)		A

- · GHS label elements Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

#### 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).

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Welding Exposure Scenario WES - ENGL

EWA2011

Recommendations for Exposure Scenarios, Risk Management Measures and to identify Operational Conditions under which metals, alloys and metallic articles may be safely welded

Welding/Brazing produces fumes which can affect human health and the environment. Fumes are a varying mixture of airborne gases and fine particles which, if inhaled or swallowed, constitute a health heazerd. The degree of risk will depend on the composition of the fume, 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. 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. and ancillary worker that can be exposed

Considering the emission of fumes when welding, brazing or cutting of metals, it is recommended to (1) arrange risk management measures through applying general information and guidelines provided by this exposure scenario and (2) using the information provided by the Safety Data Sheet, issued in accordance with REACH, by the welding consumable manufacturer.

The employer shall ensure that the risk from welding fumes to the safety and health of workers is eliminated or reduced to a minimum. The

- 1- Select the applicable process/material combinations with the lowest class, whenever possible 2- Set welding process with the lowest emission parameter.
- 2. Set welcang process with the workest emission parameter.
  3. Apply the relevant collective protective measure in accordance with class number. In general, the use of PPE is taken into account after all other measures is applied.
  4. Wear the relevant personal protective equipment in accordance with the duty cycle.

In addition, compliance with the National Regulations regarding the exposure to welding fumes of welders and related personnel shall be

In the table "Risk Management Measures for individual process / material combinations" below, reference is made to the following standards

for collective and personal protection measures: ISO 4063 Welding process Reference Numbers according to ISO 4063 EN ISO 15012-1:2004 Health and safety in welding and allied processes - Requirem

Health and safety in welding and allied processes - Requirements testing and marking of equipment or air filtration - Part 1: Testing of the separation efficiency for welding fume Health and safety in welding and allied processes - Requirements, testing and marking of equipment for air filtration - Part 2: Determination of the minimum air volume flow rate of captor hoods and EN ISO 15012-2:2008

nozzles
Respiratory profective devices - Filtering half masks to profect against particles - Requirements, testing, marking (FFP1 - FFP2 - FFP3)

Light fully construction compressed air line breathing apparatus EN 149:2001

EN 1835:2000

testing, marking (FFP1 - FFP2 - FFP3)
Respiratory prodective devices. Light duty construction compressed air line breathing apparatus incorporating a helmet or a hood. Requirements, testing, marking (LDH1 - LDH2 - LDH3).
Respiratory prodective devices. Powered filtering devices incorporating a helmet or a hood. Requirements, testing, marking (TH1 - TH2 - TH3).
Respiratory protective devices—Particle filters—Requirements, testing, marking (P1, P2, P3)
Article 2. on the protection of the health and safety of workers from the risks related to chemical

agents at work
Benutzung von Atemschutzgeräten (Berufsgenossenschaftliche Regel für Sicherheit und Gesundheit
bei der Arbeit)
Schweisstechnische Arbeiten (Technische Regeln für Gefahrstoffe)

Also in the table "Risk Management Measures for individual process / material combinations", reference is made to footnotes.

The description of these footnotes:

Class: approximate ranking to mitigate risk by selecting process/material combinations with the lowest value. Identified collective and individual risk management measures shall be applied

Personal Protective Equipment (PPE) required avoiding exceeding the National Exposure Limit Value (DC: Duty cycle expressed on 8 bours).

- hours)
  General Ventilation (GV) Low. With additional Local Exhaust Ventilation (LEV) and extracted air to the outside, the GV or LEV capacity may be reduced to 1/5 of the original requirement.
  General Ventilation (GV) Medium (double compared to Low)
  Filtrating half mask (FFP2)
  When an alloyed consumable is used, measures from "Class V" are required
  General Ventilation (GV) Low. When no Local Exhaust Ventilation requirement is 5-fold
  Filtrating half mask (FFP3), helmet with powered filters (TH2/P2), or helmet with external air supply (LDH2)
  Reduced (negative) pressured Area: A separate, ventilated area where reduced (negative) pressure, compared to the surrounded area, is maintained

- Reduced (negative) pressured Area: A separate, ventilated area where reduced (negative) pressure, compared to the surrounded area, is maintained Local Exhaust Ventilation (LEV) High, extraction at source (includes table, hood, arm or torch extraction) Helmet with powered filters (TH3/P3), or helmet with external air supply (LDH3) Local Exhaust Ventilation (LEV) Low, extraction at source (includes table, hood, arm or torch extraction) Local Exhaust Ventilation (LEV) Low, extraction at source (includes table, hood, arm or torch extraction) Recommended measures to comply with national maximum allowable limits. Extracted fumes, for all materials except unalloyed steel and aluminium, shall be filtered before release in the outside environment. A confined space, despite its name, is not necessarily small. Examples of confined spaces include ship, silos, vats, utility vaults, tanks, etc. Improved helmet, designed to avoid direct flow of welding fumes inside Not applicable

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Welding Exposure Scenario WES - ENGL

EWA2011

#### Risk Management Measures for individual process / base material combinations

Class1	Process	Base	Remarks	Ventilation /	PPE <sup>2</sup>	PPE <sup>2</sup>
0.000	(according to ISO 4063)	Materials		Extraction / Filtration <sup>14</sup>	DC<15%	DC>15%
	(2222,2312,222,222,		Non-confined sp	ace <sup>15</sup>		1
	GTAW 141					
	SAW 12	All				
	Autogeneous 3		Except Aluminium	GV low <sup>3</sup>	n.r.	n.r.
	PAW 15					
	ESW/EGW 72/73					
	Resistance 2					
	Stud welding 78					
	Solid state 521					
	Gases Brazing 9	All	Except Cd- allovs	GV low <sup>3</sup>	n.r.	n.r.
п	GTAW 141	Aluminium	n.a.	GV medium <sup>4</sup>	n.a.	FFP2 <sup>5</sup>
iii	MMAW 111	All	Except Be-, V- , Mn-,	Gvinedidin	11.a.	FFFZ
	IVIIVIAVV 777	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Ni- alloys and			
			Stainless <sup>6</sup>	GV low <sup>7</sup>	Improved	FFP2 <sup>5</sup>
	FCAW 136/137	All	Except Stainless and	LEV low <sup>12</sup>	helmet16	1'''2
	1 CAW 1507157	^	Ni- alloys 6	LL 1 10W	Homitot	
	GMAW 131/135	All	Except Cu-, Be-, V-	1		
	GIVIAW 1517155	^"	alloys <sup>6</sup>			
	Powder Plasma Arc 152	All	Except Be-, V-, Cu-,			
	T OWGET T TO STITLE FOR TO Z	[23]	Mn-, Ni-alloys and			
			Stainless 6			
IV	All processes class I	Painted /	No Pb containing	GV low <sup>3</sup>		FFP3.
	/ III processes siass :	primed / oiled	primer		FFP2 <sup>5</sup>	TH2/P2.
	All processes class III	Painted /	No Pb containing	GV low '	⊣	or LDH2 <sup>8</sup>
	, p	primed / oiled	primer	LEV low12		
V	MMAW 111	Stainless, Ni	n.a.	LEV high <sup>10</sup>	TH3/P3.	TH3/P3,
		Be-, and V-		g	LDH3 <sup>11</sup>	LDH3 <sup>11</sup>
		allovs				
	FCAW 136/137	Stainless.	1			
		Mn- and Ni-				
		alloys				
	GMAW 131	Cu-alloys	1			
	Powder Plasma Arc 152	Stainless,	1			
		Mn-, Ni-, and				
		Cu- alloys				
VI	GMAW 131	Be-, and V-	n.a.	Reduced (negative) pressured area	TH3/P3, LDH3 <sup>11</sup>	TH3/P3,
	Powder Plasma Arc 152	alloys		LEV low12	LDH3 <sup>11</sup>	LDH3 <sup>11</sup>
VII	Self shielded FCAW 114	Un-, high	Cored wire, not	Reduced (negative) pressured area	+	
VII	Gen sillelueu FCAW 114	alloyed steel	containing Ba	LEV medium <sup>13</sup>	1	
	Self shielded FCAW 114	Un-, high	Cored wire	Reduced (negative) pressured area	TH3/P3.	TH3/P3.
	Gell silleided I CAVV 114	alloyed steel	containing Ba	LEV high <sup>10</sup>	LDH3 <sup>11</sup>	LDH3 <sup>11</sup>
	All	Painted /	Paint / Primer	LEV IIIgii	LDIIS	LEDITIO
	[~"	primed	containing Pb			
	Arc Gouging and	All	n.a.	1	1	
	Cutting 8	/ WI	·····		1	
	Thermal Spray	All	n.a.	1	1	
	Gases Brazing 9	Cd- alloys	n.a.	1	1	
			losed system or Confi	ined space <sup>15</sup>	-	
	Laser Welding 52	All	Closed system	GV medium <sup>4</sup>	n.a.	n.a.
•	Laser Cutting 84	l			1	1
	Electron Beam 51				1	
VIII	All	All	Confined space	LEV high <sup>10</sup> External air supply	LDH3 <sup>11</sup>	LDH3 <sup>11</sup>
	l´ "'	,	Common space	ZZZg Z.ziui un suppry	1255	1 -5

- · Department issuing SDS: Research and Development
- · Contact: DI Stefan Schormann
- · Date of preparation / last revision 01/12/2016 / 3
- Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)

VOC: Volatile Organic Compounds (USA, EU)

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PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative NIOSH: National Institute for Occupational Safety OSHA: Occupational Safety & Health TLV: Threshold Limit Value PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit Flam. Sol. 2: Flammable solids, Hazard Category 2

· \* Data compared to the previous version altered.