



acc. to GHS

Printing date 03/10/2016 Reviewed on 05/10/2022

1 Identification

- · Product identifier
- · Trade name: EXECUTIVE PLUS 7018-1
- · CAS Number: -
- · EINECS Number: -
- · Application of the substance / the mixture Shielded Metal Arc Welding Electrode
- · Details of the supplier of the safety data sheet
- · Supplier: Exocor Ltd
- · 271 Ridley Road
- · St. Catharines Ontario L2S 0B3 Canada
- · Telephone: 888 317-2209
- · Fax: 855 317-2209
- · www.exocor.com

2 Hazard 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
- · Classification system:
- · NFPA ratings (scale 0 4)



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Safety Data Sheet

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· HMIS-ratings (scale 0 - 4)

Health = *0Fire = 0Reactivity = 0REACTIVITY 0

· Other hazards

HEALTH

- · 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	· Dangerous components:							
7439-89-6	iron		50-100% w/w					
7789-75-5	calcium fluoride		5-12.5% w/w					
14808-60-7	silicon dioxide	Carcinogenicity - Category 1A, H350Acute Toxicity (Inhalation) - Category 4, H332	0.1-2.5% w/w					
7439-96-5	manganese		0.1-2.5% w/w					
13463-67-7	titanium dioxide	♦ Carcinogenicity – Category 2, H351	0.1-2.5% w/w					

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 Firefighting 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: Do not allow to enter sewers/ surface or ground water.

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- · 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.

8 Exposure controls/ Personal protection

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

7439-89-6 iron

EV Long-term value: 1* 5** mg/m³

as iron; *salts, water-soluble; **welding fume

7789-75-5 calcium fluoride

EL Long-term value: 2.5 mg/m³ as F

14808-60-7 silicon dioxide

EL Long-term value: 0.025 mg/m³

ACGIH A2; IARC 1

EV Long-term value: 0.10* mg/m³

*respirable fraction

7439-96-5 manganese

EL Long-term value: 0.2 mg/m³

as Mn; R

EV Long-term value: 0.2 mg/m³

as manganese

13463-67-7 titanium dioxide

EL Long-term value: 10* 3** mg/m3

*total dust;**respirable fraction; IARC 2B

EV Long-term value: 10 mg/m3

total dust

- · 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

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· 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: Not required.

· 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: Odorless

· Odor threshold: Not determined.

· **pH-value:** Not applicable.

· Flash point: Not applicable.

· Flammability (solid, gaseous): Not determined.

· 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 densityNot determined.Vapor densityNot applicable.Evaporation rateNot applicable.Water:Insoluble.

· Partition coefficient (n-octanol/water): Not determined.

Dynamic: Not applicable. Kinematic: Not applicable.

· Organic solvents: 0.0 %

· **Other information** No further relevant information available.



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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 Attacks materials containing glass and silicate.
- · 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.

Nickel oxide.

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
- · Acute toxicity:
- Primary irritant effect:
- · on the skin: No irritant effect.
- · on the eye: No irritating effect.
- · Sensitization: No sensitizing effects known.
- · 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.

· Carcinogenic categories

	rnational Agency for Research on Cancer)	2
		3
14808-60-7	silicon dioxide	1
13463-67-7	titanium dioxide	21
NTP (Natio	onal Toxicology Program)	
14808-60-7	silicon dioxide	
OSHA-Ca	(Occupational Safety & Health Administration)	
None of the	ingredients is listed.	

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.

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- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Water hazard class 1 (Self-assessment): slightly 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, TDG, ADN, IMDG, IATA	Void Void
UN proper shipping name DOT, TDG, ADN, IMDG, IATA	Void
Transport hazard class(es)	
DOT, TDG, ADN, IMDG Class	Void
IATA Class	Void -
Packing group DOT, TDG, 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.

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(Contd. of page 6) · Sara · Section 355 (extremely hazardous substances): None of the ingredient is listed · Section 313 (Specific toxic chemical listings): 7439-96-5 manganese 1344-28-1 aluminium oxide 7440-50-8 copper · TSCA (Toxic Substances Control Act): All ingredients are listed. · Proposition 65 · Chemicals known to cause cancer: 14808-60-7 silicon dioxide 13463-67-7 titanium dioxide · Chemicals known to cause reproductive toxicity for females: None of the ingredients is listed. · Chemicals known to cause reproductive toxicity for males: None of the ingredients is listed. · Chemicals known to cause developmental toxicity: None of the ingredients is listed. · Cancerogenity categories · EPA (Environmental Protection Agency) 7439-96-5 manganese D D 7440-50-8 copper · TLV (Threshold Limit Value established by ACGIH) 7789-75-5 calcium fluoride A4 14808-60-7 silicon dioxide A2 13463-67-7 titanium dioxide A4 1344-28-1 aluminium oxide A4 · NIOSH-Ca (National Institute for Occupational Safety and Health) 14808-60-7 silicon dioxide 13463-67-7 titanium dioxide Canadian substance listings: · Canadian Domestic Substances List (DSL) 7439-89-6 iron 7789-75-5 calcium fluoride 14808-60-7 silicon dioxide 7439-96-5 manganese 13463-67-7 titanium dioxide 7440-21-3 silicon 1344-28-1 aluminium oxide 9004-34-6 Cellulose 7782-42-5 Graphite 7440-50-8 copper

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· Canadian Ingredient Disclosure list (limit 0.1%)

None of the ingredients is listed.

· Canadian Ingredient Disclosure list (limit 1%)

14808-60-7 silicon dioxide

7439-96-5 manganese

- · 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.

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Welding Exposure Scenario WES - ENGL

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 hazard. 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.

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 following principle shall be applied:

1- Select the applicable process/material combinations with the lowest class, whenever possible.

2- Set welding process with the lowest 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 verified.

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

EN ISO 15012-1:2004

EN ISO 15012-2:2008

Neasures:
Welding process Reference Numbers according to ISO 4063
Health and safety in welding and allied processes - Requirements testing and marking of equipment or air filtration - Part 1: Testing of the separations 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

FN 149:2001

EN 1835:2000

nozzles
Respiratory protective devices - Filtering half masks to protect against particles - Requirements, testing, marking (FFP1 - FFP2 - FFP3)
Respiratory protective devices. Light duty construction compressed air line breathing apparatus incorporating a helmet or a hood. Requirements, testing, marking (LDH1 - LDH2 - LDH3).
Respiratory protective 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 6.2 on the protection of the health and safety of workers from the risks related to chemical agents at work

EN 143:2000 Directive 1998/24/EC

Article 0.2 of the protection of the result and salety of workers from the insist related to chemical agents at work Benutzung von Alemschutzgeräten (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:

- e 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
- 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, the ventilation requirement is 5-fold
 Filtrating half mask (FFP3), helmet with powered filters (Hz/P2), or helmet with power filters (Hz/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

- 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 forch 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 forch extraction) Local Exhaust Ventilation (LEV) Medium, extraction at source (includes table, hood, arm or forch extraction) Recommended measures to comply with national maximum allowable limits. Extracted furnes, 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 furnes inside

- Not applicable Not recommended



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Welding Exposure Scenario WES - ENGL

EWA2011

Risk Management Measures for individual process / base material combinations

Graw	Class1	Process	Base	Remarks	Ventilation /	PPE ²	PPE ²
Non-confined space Non-con	-1400				Extraction / Filtration ¹⁴		DC>15%
STAW		(2222.2		Non-confined sp	ace ¹⁵		1
Autogeneous 3 All	- 1	GTAW 141					
PAW Foundary Paw		SAW 12	1				
ESW/EGW 72/73 Resistance 2 Stud welding 78 Solid state 521 Sud welding 78 Solid state 521 Sulf welding 78		Autogeneous 3	All	Except Aluminium	GV low ³	n.r.	n.r.
Resistance 2 Stud welding 78 Solid state 521 Stud welding 78 Solid state 521 Solid s							
Resistance 2 Stud welding 78 Solid state 521		ESW/EGW 72/73	i				
Stud welding 78 Solid state 527 Gases Brazing 9 All Except Cd- alloys GV low N.r. n.r. n.r. n.r. GV medium N.a.			1				
Solid state 521			i				
Gases Brazing 9 All Except Cd- alloys GV low? n.r. n.r. n.r.			i				
III GTAW			All	Except Cd- allovs	GV low ³	n.r.	n.r.
Ni- alloys and Stainless S	II.		Aluminium		GV medium⁴	n.a.	FFP2 ⁵
Ni- alloys and Stainless S	III						
Stainless Stainless GV Ow CV FFP2 FFP							
Ni- alloys Second Cu-, be-, V- alloys Except Be-, V-, Cu-, Mr., Ni-alloys and Stainless Except Be-, V-, Cu-, Mr., Ni-alloys and Stainless First Part First Pa				Stainless ⁶	GV low ⁷	Improved	FFP2 ⁵
Ni- alloys Second Cu-, Be-, V- alloys Except Be-, V-, Cu-, Mr., Ni-alloys and Stainless Except Be-, V-, Cu-, Mr., Ni-alloys and Stainless First Part Firs		FCAW 136/137	All	Except Stainless and	LEV low12	helmet16	
Powder Plasma Arc 152 All Except Be-, V. Cu-, Mn-, Ni-alloys and Stainless Stain		1		Ni- alloys 6			1
Powder Plasma Arc 152 All		GMAW 131/135	All				1
Minches Minc							
Stainless Stai		Powder Plasma Arc 152	All	Except Be-, V-, Cu-,			
All processes class Painted / primed / oiled primed / primed				Mn-, Ni-alloys and			
Painted / Pain							
All processes class Painted / primed / oiled primed primed primed	IV	All processes class I			GV low ³		FFP3,
V MMAW 111 Stainless, Ni-, Be, and V- alloys FCAW 136/137 Stainless, Mn- and Ni- alloys GMAW 131 Cu-alloys Powder Plasma Arc 152 Stainless, Mr. Ni-, and Cu- alloys All Ni- high alloyd steel Self shielded FCAW 114 Un-, high alloyd steel All Painted / primed / Painted						FFP2°	TH2/P2,
V MMAW		All processes class III			GV low '		or LDH28
Be. and V. alloys FCAW 136/137 Stainless, Mn- and Ni- alloys Powder Plasma Arc 152 Stainless, Mn-, Ni-, and Cu- alloys Powder Plasma Arc 152 Stainless, Mn-, Ni-, and Cu- alloys Powder Plasma Arc 152 Stainless, Mn-, Ni-, and Cu- alloys Powder Plasma Arc 152 Steff shielded FCAW 114 Un-, high alloys Self shielded FCAW 114 Un-, high alloys dated Self shielded FCAW 114 Painted / P					LEV low12		
Self shielded FCAW 114 Un-, high alloyed steel Self	V	MMAW 111		n.a.	LEV high ¹⁰	TH3/P3,	TH3/P3,
FCAW 136/137 Stainless, Mn- and Ni- alloys						LDH3"	LDH3 ¹¹
Mn- and Ni- alloys GMAW 131 Cu-alloys Stainless, Mn-, Ni-, and Cu-alloys Stainless, Mn-, Ni-, and Cu-alloys Mn-, Ni-, and Mn-, and							
Self shielded FCAW 114 Descripting All Painted / Pointed Painted P		FCAW 136/13/					
GMAW							
Powder Plasma Arc 152							
Mn-, Ni-, and Cu- alloys							
Cu - alloys		Powder Plasma Arc 152					
VI GMAW 131 Be., and V n.a. Reduced (negative) pressured area TH3/P3, alloys TH LDI							
Powder Plasma Arc 152 Un-, high Cored wire, not alloyed steel Containing Ba LeV low ^{1/2} Reduced (regative) pressured area LeV medium 19 Lev high Lev high 19 Lev hi	1//	CMANA/ 121			Barband (namethia) managed avan 9	TU2/D2	TH3/P3,
VII Self shielded FCAW 114 Un-, high alloyed steel Containing Ba LEV medium 13 LEV medium 14 LEV high 15 LEV h	VI			III.a.	I EV low 12		LDH3 ¹¹
All						LDITO	LDITO
Self shielded FCAW 114	VII	Self shielded FCAW 114			Reduced (negative) pressured area		
All Painted						J	T. 10 /D0
All		Self shielded FCAW 114			Reduced (negative) pressured area	1H3/P3,	TH3/P3, LDH3 ¹¹
Primed Containing Pb Arc Gouging and Cutting 8 Thermal Spray All n.a.					LEV nigh"	LDH3	LDH3
Arc Gouging and Cutting		All				1	
Cutting		A C					1
Thermal Spray			All	n.a.			1
Gases Brazing 9 Cd- alloys n.a.			l au	 			
Closed system or Confined space 5 Laser Welding 52						1	
I Laser Welding 52 All Closed system GV medium ⁴ n.a. n.a Electron Beam 51		Gases brazing 9			nod on one 15	1	1
Laser Cutting 84 Electron Beam 51		LL coor Wolding 50				Inc	Inc
Electron Beam 51	1		l All	Ciosea system	Gv medium	II.a.	III.a.
			-			1	
VIII AII Contined space LEV night External air supply LDH3** LDI	7/111		All	Confined once	LEV/high ¹⁰ External air our -1:	I DUS ¹¹	LDH3 ¹¹
	VIII	[~"	l 📶	Commed space	LEV mgn External air supply	LDH3	LUHS

· Date of preparation / last revision 03/10/2016 / -

· Abbreviations and acronyms:

IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation IATA: International Air Transport Association ACGIH: American Conference of Governmental Industrial Hygienists

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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)

NPPA. National File Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
TRGS: Technische Regeln für Gefahrstoffe (Technical Rules for Dangerous Substances, BAuA, Germany)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health
Acute Toxicity (Inhalation) - Category 4: Acute toxicity, Hazard Category 4
Carcinogenicity - Category 1A: Carcinogenicity, Hazard Category 1A
Carcinogenicity - Category 2: Carcinogenicity, Hazard Category 2