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# Safety Data Sheet acc. to OSHA HCS

Printing date 03/24/2022 Reviewed on 03/24/2022

### 1 Identification

- · Product identifier
- · Trade name: UTP 7018
- · Application of the substance / the mixture Stick electrodes for welding
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

voestalpine Bohler Welding México, S.A. de C.V. Av. Henry Ford No. 16 Fracc. Ind. San Nicolás, C.P. 54030, Tlalnepantla Edo. de México, México.

· Information department:

R&D Engineer

teresita.ordaz@voestalpine.com

Emergency telephone number: During normal opening times: +52/55/53213070

### 2 Hazard(s) identification

· Classification of the substance or mixture



GHS08 Health hazard

Carc. 1A H350 May cause cancer. Route of exposure: Inhalation.

- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

· Hazard pictograms



GHS08

- · Signal word Danger
- · Hazard-determining components of labeling:

Quartz (SiO2)

titanium dioxide

· Hazard statements

H350 May cause cancer. Route of exposure: Inhalation.

· Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

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



Health = 1 Fire = 0 Reactivity = 0

· HMIS-ratings (scale 0 - 4)



Health = \*0 Fire = 0 Reactivity = 0

- · 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	· Dangerous components:			
471-34-1	calcium carbonate		>25–≤50%	
7789-75-5	calcium fluoride		>25–≤50%	
14808-60-7	Quartz (SiO2)	🕸 Carc. 1A, H350	>2.5–≤10%	
	titanium dioxide	🕸 Carc. 2, H351	>2.5–≤10%	
	manganese		>2.5–≤10%	
7440-21-3	silicon	♦ Flam. Sol. 2, H228	0–≤2.5%	

### 4 First-aid measures

- · Description of first aid measures
- 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: If symptoms persist consult doctor.
- · Information for doctor:
- · 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.

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### 5 Fire-fighting measures

- · Extinguishing media
- · Suitable extinguishing agents: Use fire fighting measures that suit the environment.
- 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 Not required.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

· 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.

· Protective Action Criteria for Chemicals

471-34-1	calcium carbonate	45 mg/m³
7789-75-5	calcium fluoride	15 mg/m³
7439-89-6	iron	3.2 mg/m³
14808-60-7	Quartz (SiO2)	0.075 mg/m
13463-67-7	titanium dioxide	30 mg/m³
7439-96-5	manganese	3 mg/m³
7440-21-3	silicon	45 mg/m³
7440-44-0	carbon	6 mg/m³
1344-28-1	aluminium oxide	15 mg/m³
1309-37-1	diiron trioxide	15 mg/m³
PAC-2:		<u>'</u>
471-34-1	calcium carbonate	210 mg/n
7789-75-5	calcium fluoride	170 mg/n
7439-89-6	iron	35 mg/m <sup>-2</sup>
14808-60-7	Quartz (SiO2)	33 mg/m <sup>3</sup>
13463-67-7	titanium dioxide	330 mg/n
7439-96-5	manganese	5 mg/m³
7440-21-3	silicon	100 mg/n
7440-44-0	carbon	330 mg/n
1344-28-1	aluminium oxide	170 mg/n

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1309-37-1	diiron trioxide	360 mg/m³
PAC-3:		
471-34-1	calcium carbonate	1,300 mg/m³
7789-75-5	calcium fluoride	1,000 mg/m <sup>3</sup>
7439-89-6	iron	150 mg/m³
14808-60-7	Quartz (SiO2)	200 mg/m³
13463-67-7	titanium dioxide	2,000 mg/m <sup>3</sup>
7439-96-5	manganese	1,800 mg/m³
7440-21-3	silicon	630 mg/m³
7440-44-0	carbon	2,000 mg/m <sup>3</sup>
1344-28-1	aluminium oxide	990 mg/m³
1309-37-1	diiron trioxide	2,200 mg/m <sup>3</sup>

# 7 Handling and storage

- · Handling:
- · Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

Information about protection against explosions and fires:

Keep respiratory protective device available.

- · 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: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

- · Additional information about design of technical systems: No further data; see item 7.
- · Control parameters

· Components with limit values	s that require	monitoring at	the workplace:
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#### 471-34-1 calcium carbonate

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

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7700 '		(Contd. of pa
//09-	75-5 calcium fluoride	
	Long-term value: 2.5 mg/m³ as F	
	Long-term value: 2.5 mg/m³ as F	
	Long-term value: 2.5 mg/m³ as F, A4; BEI	
14808	8-60-7 Quartz (SiO2)	
	Long-term value: 0.05* mg/m³ *resp. dust; 30mg/m3/%SiO2+2	
	Long-term value: 0.05* mg/m³ *respirable dust; See Pocket Guide App. A	
	Long-term value: 0.025* mg/m³ *respirable particulate matter, A2	
13463	R-67-7 titanium dioxide	
	Long-term value: 15* mg/m³ *total dust	
REL S	See Pocket Guide App. A	
TLV	Long-term value: (10) NIC-0.2* NIC-2.5** mg/m³ NIC: resp. fraction, *nanoscale,**finescale, A3	
7439-	96-5 manganese	
	Ceiling limit value: 5 mg/m³ as Mn	
	Short-term value: 3 mg/m³ Long-term value: 1 mg/m³ fume, as Mn	
	Long-term value: 0.02* 0.1** mg/m³ as Mn; A4, *respirable **inhalable fraction	
7440-2	21-3 silicon	
	Long-term value: 15* 5** mg/m³ *total dust **respirable fraction	
REL L	Long-term value: 10* 5** mg/m³ *total dust **respirable fraction	
TLV	TLV withdrawn	

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#### · Ingredients with biological limit values:

#### 7789-75-5 calcium fluoride

BEI 2 mg/L

Medium: urine Time: prior to shift

Parameter: Fluoride (background, nonspecific)

3 mg/L

Medium: urine Time: end of shift

Parameter: Fluoride (background, nonspecific)

- · Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

· Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

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

#### · Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

#### · 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.

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### · Eye protection:



Tightly sealed goggles

Information on basic physical and General Information	chemical properties
Appearance:	
Form:	Solid
Color:	According to product specification
Odor:	Characteristic
Odor threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	1,962 °C (35.562 °F)
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.
Vapor pressure:	Not applicable.
Density:	Not determined.
Relative density	Not determined.
Vapor density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
Water:	Insoluble.
Partition coefficient (n-octanol/wat	ter): Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.

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· Solvent content:	,	Johna: or page 7)
VOC content:	0.00 %	
· 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 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: No dangerous decomposition products known.

## 11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:

· LD/LC50 v	· LD/LC50 values that are relevant for classification:		
471-34-1 c	471-34-1 calcium carbonate		
Oral	LD50	6,450 mg/kg (rat)	
7789-75-5	calcium f	luoride	
Oral	LD50	4,250 mg/kg (rat)	
13463-67-	7 titanium	dioxide	
Oral	LD50	>20,000 mg/kg (rat)	
Dermal	LD50	>10,000 mg/kg (rabbit)	
Inhalative	LC50/4 h	>6.82 mg/l (rat)	
7439-96-5	7439-96-5 manganese		
Oral	LD50	9,000 mg/kg (rat)	
7440-21-3	7440-21-3 silicon		
Oral	LD50	3,160 mg/kg (rat)	

- 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 shows the following dangers according to internally approved calculation methods for preparations:

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#### · Carcinogenic categories

· IARC (Interi	national Agency for Research on Cancer)	
7789-75-5	calcium fluoride	3
14808-60-7	Quartz (SiO2)	1
13463-67-7	titanium dioxide	2B
1309-37-1	diiron trioxide	3
· NTP (Nation	nal Toxicology Program)	
14808-60-7	Quartz (SiO2)	K
· OSHA-Ca (0	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.
- 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 2 (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

- 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 not be disposed of together with household garbage. Do not allow product to reach sewage system.

- Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

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UN-Number	
DOT, ADR, ADN, IMDG, IATA	not regulated
UN proper shipping name	
DOT, ADR, ADN, IMDG, IATA	not regulated
Transport hazard class(es)	Not applicable.
DOT, ADN, IMDG, IATA	
Class	not regulated
Packing group	
DOT, IMDG, IATA	not regulated
Environmental hazards:	Not applicable.
Special precautions for user	Not applicable.
Transport in bulk according to Annex	II of
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
UN "Model Regulation":	not regulated

### 15 Regulatory information

- · Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

Section 313 (Specific toxic chemical listings):

7439-96-5 manganese

1344-28-1 aluminium oxide

· TSCA (Toxic Substances Control Act):

All components have the value ACTIVE.

- · Hazardous Air Pollutants
- 7439-96-5 manganese
- Proposition 65
- · Chemicals known to cause cancer:

14808-60-7 Quartz (SiO2)

13463-67-7 titanium dioxide

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

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		(Contd. of page 10)
· Chemicals I	known to cause reproductive toxicity for males:	
None of the	ingredients is listed.	
· Chemicals I	known to cause developmental toxicity:	
None of the	ingredients is listed.	
· Carcinogen	ic categories	
· EPA (Enviro	onmental Protection Agency)	
7439-96-5 r	manganese	D
· TLV (Thresi	hold Limit Value)	
7789-75-5	calcium fluoride	A4
14808-60-7	Quartz (SiO2)	A2
13463-67-7	titanium dioxide	A4
1344-28-1	aluminium oxide	A4
1309-37-1	diiron trioxide	A4
· NIOSH-Ca (	National Institute for Occupational Safety and Health)	·
14808-60-7	Quartz (SiO2)	
13463-67-7	titanium dioxide	

#### GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

### Hazard pictograms



#### · Signal word Danger

#### · Hazard-determining components of labeling:

Quartz (SiO2) titanium dioxide

### · Hazard statements

H350 May cause cancer. Route of exposure: Inhalation.

#### · Precautionary statements

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international

regulations.

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- · National regulations:
- · Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation. Exceptions can be made by the authorities in certain cases.

· 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.

- · Department issuing SDS: Product safety department.
- · Contact: R&D department
- · Date of preparation / last revision 03/24/2022 / -
- Abbreviations and acronyms:

ADR: Accord relatif au transport international 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

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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

BEI: Biological Exposure Limit

Flam. Sol. 2: Flammable solids – Category 2 Carc. 1A: Carcinogenicity – Category 1A

Carc. 2: Carcinogenicity - Category 2

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