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SECTION 1 Identification of th	e substance/mix	ture and of	the com	bany/undert	aking	
4.4. Droduct identifier						
1.1. Product identifier		_				
Trade name	: TENAX 35	-	_			
1.2. Relevant identified uses o	f the substance	or mixture a	and uses	advised aga	ainst	
Use	: Electric arc	welding coated	l electrode.			
1.3. Details of the supplier of t	<u>he safety data s</u>	neet				
Company identification	: TALARC P					
	10-16 Syme Brunswick.	Street Vic 3056 Austral	ia			
	Tel: + 61 3					
	sales@talarc	com				
1.4. Emergency telephone nun	nber					
Emergency phone nr	: +61 3 9388	0588				
SECTION 2 Hazards identificat	tion					
2.4. Classification of the subst						
2.1. Classification of the subst	ance or mixture					
Not applicable.						
2.2. Label elements						
Not applicable.						
2.3. Other hazards						
Risk by welding use						
Heat	: Spatter and	d melting metal	can cause bu	ırn injuries.		
Radiation	: UV, IR rad	iations. Arc ray	can severely	damage eyes or	skin.	
Fumes					welding fumes m Imes may cause n	ay cause respiratory
Electricity	: Electric sh	•	e or protorige			
Magnetic fields			should not a	o near welding o	or cutting operation	ns until they have
-					e manufacturer of	
SECTION 3 Composition/infor	mation on ingre	dients				
3.1. Substances						
Not applicable.						
<u>3.2. Mixtures</u>		0.10 L'	50.11			
Substance name Potassium silicate	0.1 - 1 %	CAS No 1312-76-1	EC No 215-199-1	Annex No	Ref REACH	Classification Xi; R36/38

Substance name		Contents	CAS NO	EC NO	Annex No	REI REACH	Classification
Potassium silicate	:	0.1 - 1 %	1312-76-1	215-199-1			Xi; R36/38
							Eye irrit 2 Skin Irrit. 2
Kaolinite	:	1 - 3 %	1318-74-7	215-286-4			Not classified (DSD/DPD)
							Not classified (GHS)
Fluorite (CaF2)	:	3 - 7 %	14542-23-5	238-575-7			Not classified (DSD/DPD)
							Not classified (GHS)
Iron	:	50 - 75 %	7439-89-6	231-096-4			Not classified (DSD/DPD)
							Not classified (GHS)
Magnesium powder (pyrophoric)	:	0.1 - 1 %	7439-95-4	231-104-6	012-001-00-3		F; R15-R17
							Pyr. Sol. 1 Water-react. 1
Manganese	:	1 - 3 %	7439-96-5	231-105-1			Not classified (DSD/DPD)
							Not classified (GHS)

AIR LIQUIDE WELDING FRANCE 13 rue d'Epluches - Saint Ouen l'Aumône BP 70024 95315 Cergy-Pontoise cedex - France

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SECTION 3 Composition/informa	tion on ingre	dients (cor	ntinued)			
Substance name Silicon Dioxide :	0.1 - 1 %	CAS No 7631-86-9	EC No 231-545-4	Annex No	Ref REACH	Classification Not classified (DSD/DPD)
Sincon Dioxide	0.1 - 1 /0	1001-00-0	201-040-4			Not classified (GHS)
SECTION 4 First aid measures						
4.1 Description of first aid measu	ires					
- Inhalation		g becomes diffic deeply. Seek me				to fresh air and get the
- Skin contact		burn with hot mo eek medical atte			. Take off immedia	ately all contaminated
- Eye contact	: In case of	burn with hot me	etal, flush wit	h plenty of water	. Seek medical att	ention immediately.
- Ingestion	: Ingestion u	unlikely. Obtain e	emergency m	edical attention.		
4.2 Most important symptoms an	<u>d effects, bot</u>	<u>h acute and</u>	<u>delayed</u>			
See Heading 2.3.						
4.3. Indication of any immediate	<u>medical att</u> en	<u>tion and sp</u>	ecial trea	<u>tment nee</u> d	ed	
Not applicable.		-			_	
SECTION 5 Firefighting measure	c					
Section of Thenghing measure	3					
5.1. Extinguishing media						
Extinguishing media						
- Suitable	: Powder.					
- Not to be used	: Water.					
Surrounding fires	: Cool neart	oy material.				
5.2. Special hazards arising from	the substand	<u>ce or mixtur</u>	e			
Flammable class	: Not combu	ustible.	_			
5.3. Advice for fire-fighters						
Protection against fire	: Do not ent	er fire area with	out proper pro	tective equipme	nt, including respi	ratory protection.
SECTION 6 Accidental release m	easures					
6.1. Personal precautions, protect	tive equipme	ent and eme	rgency pr	<u>ocedures</u>		
General precautions	: Not applic	able.				
6.2. Environmental precautions						
Environmental precautions	: Not applic	able.				
6.3. Methods and material for co			a			
Not applicable.		a vicanny t	<u>4</u> 2			
6.4. Reference to other sections						
See Heading 8.						



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SECTION 7 Handling and storage

7.1. Precautions for safe handling

Handling

: Provide local exhaust or general room ventilation to minimize fumes concentrations. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

: -

Storage

: Store in dry protected location to prevent any moisture contact. Keep container closed when not in use.

7.3. Specific end use(s)

Not applicable.

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure Limits

8.2. Exposure controls

Personal protection - Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment. Do not breathe gas/fumes/vapour.
- Hand protection	: Welding gloves.
- Skin protection	: Skin protection appropriate to the conditions of use should be provided.
- Eye protection	: Use a protection mask equipped with suitable filter glasses. Interdiction to wear contact lenses.

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid.
Colour	: Grey.
Odour	: Odourless.
Density	: >1
pH value	: Not applicable.
Melting zone [°C]	: ca 1500
Evaporation rate	: Not applicable.
Flash point [°C]	: Not applicable.
Explosion limits - lower [%]	: Not applicable.
Explosion limits - upper [%]	: Not applicable.
Auto-ignition temperature	: Not applicable.
Vapour pressure	: Not applicable.
Solubility in water	: Insoluble.
Partition coefficient : n-octanol / water	: Not applicable.
Viscosity	: Not applicable.
Oxidising properties	: Not applicable.

9.2. Other information

Not applicable.



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SECTION 10 Stability and reactivity	
10.1. Reactivity	
None under normal conditions.	
10.2. Chemical stability	
Stable under normal conditions. (< 300°C	
10.3. Possibility of hazardous react	
Not applicable.	
10.4. Conditions to avoid	
None under normal conditions.	
10.5. Incompatible materials	
Materials to avoid	: Contact with chemical substances like acids ou bases could cause generation of gas.
0.6. Hazardous decomposition pro	oducts
Hazardous decomposition products	Formation of dangerous fumes during use. Welding fumes are classified as "possibly carcinogenic to humans (Group 2B)" by the IARC (International Agency for Research on Cancer) Reasonably expected gaseous products would include carbon oxides, nitrogen oxides and ozone.
Fume Data Sheet	: These hazardous products could include those from the reaction or oxidation of the components listed in section 3 or included in base material.
Fumes Emission Rate	: The amount of fumes generated change with the welding parameters and the diameters of the consummable. Refer to applicable national exposure limits for fume compounds and national exposure limits for fumes.
Other information	: In case of work on parts covered by coatings such as : Lubricant. Solvent, Paint, Metallic compounds, Grease, etc The thermal or photochemical decomposition products of these elements cumulate with the dusts and fumes emitted by the melting of the welding product. The solution to adopt must be, in any case, preceeded by a spot study. Refer to the document "Health and Safety in Welding" published by the International Institute of Welding (IIS/IIW).

SECTION 11 Toxicological information

11.1. Information on toxicological effects				
Toxicity information	: Overexposure to welding fumes may cause : Pulmonary/bronchial disease and/or cause breathing difficulty.			
Acute toxicity	: No data available.			

SECTION 12 Ecological information

12.1. Toxicity

No data available.

12.2. Persistence - degradability

No data available.

12.3. Bioaccumulative potential

No data available.

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.



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SECTION 12 Ecological information (continued)

12.6. Other adverse effects

No data available.

SECTION 13 Disposal considerations

13.1. Waste treatment methods

Disposal Industrial waste number

: Dispose in a safe manner in accordance with local/national regulations.

- : 12 01 13 Welding wastes (Q8)
 - 16 01 17 Ferrous metal (Q1).
 - 16 01 18 Non-ferrous metal (Q1).

SECTION 14 Transport information

- ADR/RID

- IMO-IMDG - IATA

- Not regulated.Not regulated.
- : Not regulated.

SECTION 15 Regulatory information

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

Directive RoHS 2011/65

: Can be used in the fabrication of electric and electronic devices

15.2. Chemical Safety Assessment

Not required.

SECTION 16 Other information

Warning	: Fumes and gases emitted during welding may be dangerous. Good ventilation of the workplace required.
Text of R-Phrases in § 3	: R15 : Contact with water liberates highly flammable gases. R17 : Spontaneously flammable in air. R36/38 : Irritating to eyes and skin.
Further information	 H250 - Catches fire spontaneously if exposed to air. H260 - In contact with water releases flammable gases which may ignite spontaneously. H315 - Causes skin irritation. H319 - Causes serious eye irritation.
Training advice	: Ensure that user is aware of the potential hazards and knows what to do in the event of an accident or an emergency.
Recommended uses and restrictions	: Contact your supplier in case of doubt.
The contents and the format of this safety	data sheet comply with Regulation (EC) No 1907/2006 of the European Parliament.

DISCLAIMER OF LIABILITY : The information in this sheet is based on the knowledge available when it was published. The user must ensure that the information is applicable and exhaustive for the application. The information contained in this sheet is only applicable for this product. The product must not be used for any application that is not allowed, in this case we will not be responsible for any damage caused. The user must respect current Safety, Health and Environmental legislation. This information concerns Safety and is not a substitute to the technical data of the product. This sheet cancels and replaces the previous ones.

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