# Silica coated aluminium paste Methoxypropanol solvent

e with



# Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No. 2015/830)

Version: 4	Version date: 01/09/2019	Language: EN
SECTION 1: Identificati	on of the substance/mixture and of t	ne company/undertaking
1.1. Product identifier		
Product description MSDS code		with Methoxypropanol solvent FX7620, EMR EX7620, EMR D3040, EMR D1100, EMR D125, EMR D12A 762E, EMR D93001, EMR DF580, EMR D7678
1.2. Relevant identified use	s of the substance or mixture and uses advised	d against
Relevant identified uses Uses advised against	: Coatings, inks, Packaging, Plast : No use against-indicated identi	
1.3.Details of the supplier o	f the safety data sheet	
Supplier	: Name: TOYAL EUROPE. Street: Route de Lescun. Postal code / City: 64490ACCO Telephone: +33 (0)5 59 98 35 3 Telefax: +33 (0)5 59 98 35 36. E-mail (competent person): Re	35.
1.4Emergency Telephone N	umber	

#### 1.4Emergency Telephone Number

Ireland: +35 (0) 31 837 9964 (medical professionals) +35 (0) 31 809 2166 (public)

Malta: +356 2545 4030

United Kingdom: In England and Wales: dial 111 (NHS 111), In Scotland: dial 111 (NHS 24), In Northern Ireland: Contact your local GP or pharmacist during normal hours. During GP Out-of-Hours (www.gpoutofhours.hscni.net/): Belfast HSC Trust, (North & West) 028 9074 4447, (South & East) 028 9079 6220

South Eastern HSC Trust, (North Down & Ards) 028 9182 2344, (Lisburn & Downpatrick) 028 9260 2204, Dalriada Urgent Care (Northern Trust area) 028 2566 3500, Southern HSC Trust 028 3839 9201, Western Urgent Care 028 7186 5195

For all information in case of transport accident and other emergencies: Emergency Contact (24h/24) GBK/Infotrac ID 103679 : international (001) 352 323 3500

## **SECTION 2: Hazards identification**

## 2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

•	Classification	Hazard statements				
	Flam. Sol. 1	H228	Flammable solid.			
$\diamond$	STOT SE 3	H336	May cause drowsiness or dizziness.			
2.2. Label elem	nents					
Labelling accor	ding to Regulation (EC) No. 1	272/2008 [CLP]				
Hazard pictog	grams					
Signal word		Danger	Danger			
Product ident	tifiers	-				
Hazard Stater	ments	H228 - Flammab	le solid.			
		H336 - May caus	e drowsiness or dizziness.			
Additional inf	ormation	-				
Precautionary	y Statements - General	-	-			
		smoking. P241 - Use explo	<ul> <li>P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.</li> <li>P241 - Use explosion-proof electrical/ventilating/lighting//equipment.</li> <li>P271 - Use only outdoors or in a well-ventilated area.</li> </ul>			

Precautionary Statements - Response

Precautionary Statements - Storage Precautionary Statements - Disposal P312 - Call a POISON CENTER/doctor/.../if you feel unwell. P370+P378 - In case of fire: Use powder to extinguish.

P501 - Dispose of contents/container in accordance with applicable local/regional/national/international regulations.

### 2.3. Other hazards

#### Not available

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

#### 3.1. Substances

Substance	C (%)	Classification	Specific concentration limits	Note
aluminium powder (stabilised)	35% ≤C≤ 75%	Flam. Sol. 1; H228	-	[1]
CAS N °:7429-90-5		Water-react. 2; H261		
N º CE:231-072-3				
IDX N °:013-002-00-1				
N° REACH : 01-2119529243-45-0203				
1-Methoxy-2-propanol, 1-methoxypropan-2-ol	20% ≤C≤ 60%	Flam. Liq. 3: H226	-	-
CAS N °:107-98-2		STOT SE 3: H336		
N º CE:203-539-1				
IDX N °:603-064-00-3				
N° REACH: 01-2119457435-35-XXXX				
silicon dioxide	2% ≤C≤ 20%	-	-	[1]
CAS N °:7631-86-9				
N º CE:231-545-4				
IDX N °:				

[1] Substance for which maximum workplace exposure limits are available.

#### 3.2. Mixtures

#### Not available

3.3. Remark

## Text phrases and H- EUH-: see section 16.

SECTION 4: First aid measure	5
4.1. Description of first aid measure	s
General information	: IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician. Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Remove the affected person from the danger zone and lay down.
Following inhalation	<ul> <li>Remove person to fresh air and keep comfortable for breathing. Remove casualty to fresh air and keep warm and at rest. No resuscitation mouth-to-mouth or mouth-to-nose. Ambu use a mask or respirator.</li> </ul>
Following skin contact	: Wash with soap and water. In case of skin irritation, consult a physician. Remove contaminated, saturated clothing immediately.
Following eye contact	: In case of eye irritation consult an ophthalmologist. Rinse immediately carefully and thoroughly with eye-bath or water.
Following ingestion Self-protection of the first aider	<ul><li>Seek medical advice immediately. Do NOT induce vomiting.</li><li>First aider: Pay attention to self-protection!.</li></ul>
4.2. Most important symptoms and	effects, both acute and delayed
Symptoms Effects	<ul><li>No information available.</li><li>No information available.</li></ul>
4.3. Indication of any immediate me	edical attention and special treatment needed
Notes for the doctor Special treatment	<ul><li>Treat symptomatically.</li><li>Treat symptomatically.</li></ul>
SECTION 5: Firefighting meas	ures
5.1. Extinguishing media	
Suitable extinguishing media	: Carbon dioxide (CO2). Dry powder extinguishing for metal (D). Dry sand. ABC-powder.

Suitable extiliguisting media	·	Carbon dioxide (CO2). Dry powder extinguishing for metal (D). Dr
Unsuitable extinguishing media	:	Water. Mousse anti-alcool, Halocarbures

#### 5.2. Special hazards arising from the substance or mixture

Formation of toxic gases is possible during heating or in case of fire. In case of contact with an acid or a base (or with water), aluminum powders react and potentially create hydrogen. Do not inhale vapors and fumes.

#### **5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Move undamaged containers from immediate hazard area if it can be done safely.

#### 5.4. Additional information

Do not inhale vapors and fumes. Co-ordinate fire-fighting measures to the fire surroundings. Move undamaged containers from immediate hazard area if it can be done safely. Use caution when applying carbon dioxide in confined spaces. carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

#### **SECTION 6: Accidental release measures**

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protection equipment. Remove persons to safety. Provide adequate ventilation. Use appropriate respiratory protection. Remove all sources of ignition. Evacuate area.

#### **6.2.** Environmental precautions

Ensure that waste is collected and contained. Avoid release to the environment. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

#### 6.3. Methods and material for containment and cleaning up

Treat the recovered material as prescribed in the section on waste disposal. Collect in closed and suitable containers for disposal. Clean contaminated objects and areas thoroughly observing environmental regulations. Ventilate affected area. Clean mechanically. Use an absorbent material such as: absorbing material, organic material, sand. Clean contaminated objects and areas thoroughly observing environmental regulations.

#### 6.4. Reference to other sections

Safe handling: see section 7. Disposal: see section 13. Personal protection equipment: see section 8.

6.5. Additional information

#### Not available

#### **SECTION 7: Handling and Storage**

#### 7.1. Precautions for safe handling

Avoid exposure - obtain special instructions before use. Avoid contact with skin, eyes and clothes. Do not breathe dust/fume/gas/mist/vapours/spray. Take off contaminated clothing. When using do not eat or drink. Keep away from heat, hot surfaces, sparks, open flames and all other ignition sources. Do not smoke. Protect from direct sunlight. Use only outdoors or in a well-ventilated area. Use explosion-proof electrical/ventilating/lighting/.../equipment.

#### Protective measures

Avoid contact with skin, eyes and clothes. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Provide earthing of containers, equipment, pumps and ventilation facilities. Use only in well-ventilated areas. Provide adequate ventilation as well as local exhaustion at critical locations. If local exhaust ventilation is not possible or not enough, the entire work area must be ventilated by technical means. Dust should be exhausted directly at the point of origin. Avoid breathing dust.

#### Advices on general occupational hygiene

Wash hands before breaks and after work. Do no eat, drink or smoke when using this product. Remove contaminated, saturated clothing immediately. Work in well ventilated zones or use proper respiratory protection.

#### 7.2. Conditions for safe storage, including any incompatibilities

Ensure adequate ventilation of the storage area. Keep in a cool, well-ventilated place. Storage recommendation to the maximum temperature of 35 °C.

Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/.../equipment. Store in a well-ventilated place. Keep away from heat. Store protected from moisture. Prevent contact with water. Do not store with oxidizing agents, acids and bases, nitrates, alcohols, halogenated hydrocarbons and halogens. Keep in a cool, well-ventilated place. Keep container tightly closed and in a well-ventilated place. Advice on joint storage

Keep away from food, drink and animal feedingstuffs.

7.3. Specific end uses

No particular use.

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

#### 8.1. Control parameters

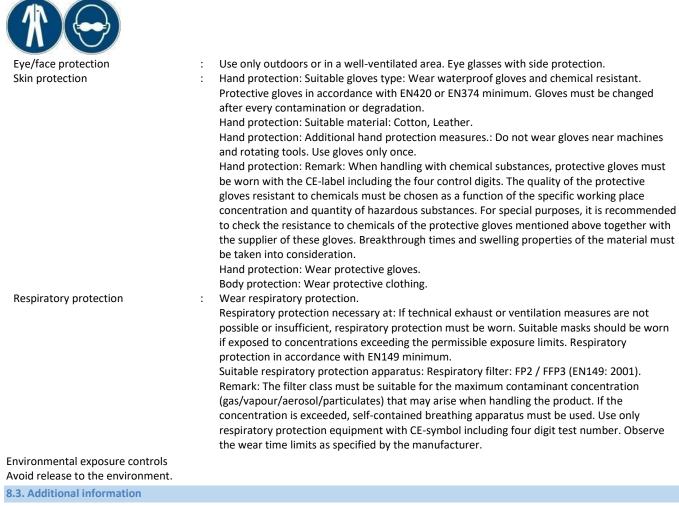
#### **Occupational exposure limits**

Substance	Value	Unit	Туре
1-Methoxy-2-propanol	560	mg/m³	Exposure limit (15 minutes)

CAS: 107-98-2 (GB)			
1-Methoxy-2-propanol	150	ppm	Exposure limit (15 minutes)
CAS: 107-98-2 (GB)			
1-Methoxy-2-propanol	375	mg/m³	Exposure limit (8 hours)
CAS: 107-98-2 (GB)			
1-Methoxy-2-propanol	100	ppm	Exposure limit (8 hours)
CAS: 107-98-2 (GB)			
aluminium powder (stabilised)	4	mg/m³	Exposure limit (8 hours)
CAS: 7429-90-5 (GB)			
aluminium powder (stabilised)	10	mg/m³	Exposure limit (8 hours)
CAS: 7429-90-5 (GB)			
1-Methoxy-2-propanol	560	mg/m³	Exposure limit (15 minutes)
CAS: 107-98-2 (GB)			
1-Methoxy-2-propanol	150	ppm	Exposure limit (15 minutes)
CAS: 107-98-2 (GB)			
1-Methoxy-2-propanol	375	mg/m <sup>3</sup>	Exposure limit (8 hours)
CAS: 107-98-2 (GB)			
1-Methoxy-2-propanol	100	ppm	Exposure limit (8 hours)
CAS: 107-98-2 (GB)			

#### Appropriate engineering controls

Technical measures and the application of suitable work processes have priority over personal protection equipment. Provide adequate ventilation as well as local exhaustion at critical locations. Local ventilation may be necessary to prevent airborne contaminants exceed their exposure limits. Personal protection equipment



#### Not available

**SECTION 9: Physical and chemical Properties** 

## 9.1. Information on basic physical and chemical properties

9.1. Information on basic physical and chem	lical properties
Physical state:	Solid pasty
Colour:	Silver Grey
Odour:	Solvent
Odour threshold:	Not available
PH:	Not available
Melting point/freezing point:	660 ° C (aluminum)
Initial boiling point and boiling range:	2467 ° C (aluminum) °C
Flash point:	30 ° C (methoxypropanol) °C
Evaporation rate:	Not applicable
Flammability:	The product is highly flammable Test after test N1 - Sub-section 33.2.1.4. (UN Recommendations
	on the Transport of Dangeroux Good, Manual of Tests and Criteria: Solids)
Upper/lower flammability or explosive	Not available
limits:	
Vapour pressure:	13.3 hPa (methoxypropanol)
Vapour density:	Not applicable
Relative density:	1.40-1.80 g / cm 3 (calculated)
Solubility(ies):	Insoluble
Partition coefficient: n-octanol/water	Not available
(Log KOC):	
Auto-ignition temperature:	270-290 ° C (methoxypropanol)
Decomposition temperature:	Not applicable
Viscosity:	1.0 mPa.s (dynamic) (methoxypropanol)
Explosive properties:	Not applicable
Oxidising properties:	Not available
9.2. Other safety information	

Not available

## **SECTION 10: Stability and Reactivity**

#### 10.1. Reactivity

No reaction under normal conditions of use and storage.

#### 10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

#### 10.3. Possibility of hazardous reactions

It may generate flammable gases in contact with water, mineral acids, organic acids, caustic substances, isocyanates, mercaptans and other organic sulphides. It may generate toxic gases in contact with azoic combinations, diazo and hydrazines. May ignite on contact with mineral acids, mercaptans and other organic sulphides, and powerful oxidising agents.

10.4. Conditions to avoid

Keep away from moisture.

**10.5.** Incompatible materials

Avoid contact with oxidizing substances: the product could catch fire.

**10.6.** Hazardous decomposition products

In case of contact with an acid or a base (or with water), aluminum powders react and potentially create hydrogen.

10.7. Additional information

Not available

**SECTION 11: Toxicological information** 

#### **11.1.Acute oral toxicity**

#### Data for mixture

Not available

## Substances

## 1-Methoxy-2-propanol (CAS: 107-98-2)

Species : Rat

	subendpoint	Operator	Value	Units
	LD50	>	5000	mg/kg bw
1	1 2 Acute skin toxicity			

Data for mixture

#### Not available

Substances

1-Methoxy-2-propanol (CAS: 107-98-2)

Species	:	Rabbit
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subendpoint	Operator	Value	Units
LD50	=	135000	mg/kg bw

#### **11.3.**Acute inhalation toxicity

Data 1	for	mi	ivtu	r٥
Data			ALG	

Not available

Substances

## 1-Methoxy-2-propanol (CAS: 107-98-2)

Species

	subendpoint	Results / Sex	Operator	Value	Units
	LC50:	-	=	6	mg/L
11.4.Skin corrosion					

## Data for mixture

Duta for mixture
Not available
Substances
Not available

## 11.5.Eye damage

Data for mixture

- Not available Substances
- Not available

11.6.Skin sensitisation

#### Data for mixture

Not available

Substances

Not available

## 11.7.STOT RE

Data for mixture Not available Substances

: Rat

#### Not available

11.8.STOT SE

## Data for mixture

Not available Substances Not available

11.9.Carcinogenicity

#### **Data for mixture**

Not available

## Substances

1-Methoxy-2-propanol (CAS: 107-98-2)

## Conclusion : Not identified as a carcinogen.

11.10.Reproductive and Developmental Toxicity

#### Data for mixture

- Not available Substances
- 1-Methoxy-2-propanol (CAS: 107-98-2)
- Conclusion : Not identified as toxic to reproduction.

11.11.genotoxicity

#### Data for mixture Not available

Substances

#### 1-Methoxy-2-propanol (CAS: 107-98-2)

Conclusion

: Not identified as a mutagen.

#### 12.1. Toxicity

Use the product is not released into the wild.

# Acute aquatic toxicity

Acute aquatic toxicity				
Substances				
aluminium powder (stabilised) (CAS: 7429-90-5)				
Animals / category:FishSpecies:96				
test Duration : h				
subendpoint	Value	Units		
LC50:	2.6	-		
1-Methoxy-2-propanol (CAS: 107-98-2)				
Animals / category : Fish Species : 96				
Species : 96 test Duration : h				
subendpoint	Value	Units		
LC50:	1000	mg/L		
12.2. Persistence and degradability				
The product has not been tested.				
12.3. Bioaccumulative potential				
The product has not been tested.				
Bioconcentration factor (BCF)				
Substances				
1-Methoxy-2-propanol (CAS: 107-98-2)				
Species : Do no	ot bioaccumulate. Log P octanol / water (20 ° C):	0.43		
12.4. Mobility in soil				
The product has not been tested.				
12.5. Results of PBT and vPvB assessment				
This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.				
12.6. Other adverse effects				
No data available.				
12.7. Additional ecotoxicological information				
Not available				
SECTION 13: Disposal considerations				
13.1. Waste treatment methods				

13.1. Waste treatment methods

Send to a hazardous waste incinerator or to a processing unit for physico-chemical agents under the control of the official regulatory bodies. Dispose in accordance with local and national regulations. The allocation of waste identification numbers and their descriptions must be in compliance with the EEC.

Product/Packaging disposal

Waste codes / waste designations according to EWC / AVV: No data.

Properties of waste which render it hazardous: Flammable Solid. Harmful.

Waste treatment options: Appropriate disposal / Product: Waste requiring special supervision. Dispose of waste according to applicable legislation. Delivery to an approved waste disposal company.

Waste treatment options: Appropriate disposal / Package: Non-contaminated packages must be recycled or disposed of. Contaminated packing must be completely emptied and can be reused after proper cleaning. Packing which cannot be properly cleaned must be disposed of. Handle contaminated packages in the same way as the substance itself. Dispose of waste according to applicable legislation.

#### 13.2. Additional information

#### Not available

#### **SECTION 14: Transport information**

	Land transport (ADR/RID)	Inland waterway transport (ADN)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1. UN number	1325	1325	1325	1325
14.2. UN proper shipping name	FLAMMABLE SOLID,	FLAMMABLE SOLID,	FLAMMABLE SOLID,	FLAMMABLE SOLID,
	ORGANIC, N.O.S.	ORGANIC, N.O.S.	ORGANIC, N.O.S.	ORGANIC, N.O.S.

	(1-Methoxy-2- propanol)	(1-Methoxy-2- propanol)	(1-Methoxy-2- propanol)	(1-Methoxy-2- propanol)
14.3. Transport hazard class(es)				
Class or Division	4.1	4.1	4.1	4.1
Hazard label(s)				
14.4. Packing group	Ĩ.	II.	I.	II.
4.5. Environmental hazards				
No data available.				
4.6. Special precautions for user				

No data available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available.

14.8. Additional information

Not available

SECTION 15: Regulatory information

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

Regulations: EN Tables of occupational diseases.

Not available

15.2. Chemical Safety Assessment

No risk assessment was performed.

**15.3. Additional information** 

Not available

**SECTION 16: Other information** 

16.1. Indication of changes

Modification of Section 1.1.

16.2. Abbreviations and acronyms

ADN / ADNR: Regulations concerning the transport of dangerous substances in barges on the waterways. ADR / RID: European Agreement concerning the International Carriage of Dangerous Goods by Road / Regulations concerning the international carriage of dangerous goods by rail. CAS: Chemical Abstract Service Number. CLP: Classification, labeling and packaging. IATA: International Air Transport Association. IMDG: International Maritime Dangerous Goods Code. DPD Dangerous Preparation Directive. UN number: United Nations number. No EC: European Commission Number. VPvB: very persistent and very bioaccumulative substances. LC50: Lethal concentration for 50 percent of the population tested. LD50: Lethal dose for 50 percent of the population tested. NA: Not available. PBT: persistent, bioaccumulative, toxic substances.

16.3. Key literature references and sources for data

Not available

16.4. Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification of the mixture is in accordance with the evaluation method described in Regulation (EC) No 1272/2008.

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

H228	Flammable solid.
H261	In contact with water releases flammable gases.
H226	Flammable liquid and vapour.
H336	May cause drowsiness or dizziness.

## 16.6. Training advice

#### Not available

16.7. Additional information

#### Not available

The information given in this Safety Data Sheet is based on our present knowledge and on european and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsability of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.