Safety Data Sheet MAPEGROUT T 60

Safety Data Sheet dated: 29/06/2020 - version 4



SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Mixture identification:

Trade name: MAPEGROUT T 60

Trade code: 901348

1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended use: Ready prepared cement mortar

Uses advised against: Data not available

1.3. Details of the supplier of the safety data sheet

Company: MAPEI U.K. Ltd - Mapei House Steel Park Road

Halesowen - West Midlands B62 8HD www.mapei.co.uk (office hour 8:30-17:30)

Responsable: sicurezza@mapei.it

1.4. Emergency telephone number

call NHS 111 or a doctor/OHES Environmental Ltd +44(0)1684 299 886

phone: +44(0)121 508 6970 - fax: +44(0)121 5086 960

SECTION 2: Hazards identification





2.1. Classification of the substance or mixture

Regulation (EC) n. 1272/2008 (CLP)

Skin Irrit. 2 Causes skin irritation.

Eye Dam. 1 Causes serious eye damage.

Skin Sens. 1B May cause an allergic skin reaction.

STOT SE 3 May cause respiratory irritation.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Regulation (EC) n. 1272/2008 (CLP)

Pictograms and Signal Words



Danger

Hazard statements:

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.
H335 May cause respiratory irritation.

Precautionary statements:

P261 Avoid breathing dust.

P264 Wash hands thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

P312 Call a POISON CENTER if you feel unwell.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

Special Provisions:

EUH208 Contains calcium aluminate sulfate. May produce an allergic reaction.

Date 29/09/2020 Production Name MAPEGROUT T 60 Page n. 1 of 13

Contains:

Portland cement, Cr(VI) < 2 ppm

calcium oxide

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT/vPvB Ingredients are present

Other Hazards: No other hazards

Prolonged exposition and/or intensive inhalation of respirable free crystalline silica (average diameter less than 10 micron in accordance with ACGIH) can cause pulmonary fibrosis commonly referred to as silicosis.

This preparation contains cement. Contact between cement and body fluids (e.g. sweat and eye fluids) may cause irritation or burns

SECTION 3: Composition/information on ingredients

3.1. Substances

NΑ

3.2. Mixtures

Mixture identification: MAPEGROUT T 60

Hazardous components within the meaning of the CLP regulation and related classification:

Quantity	Name	Ident. Numb.	Classification	Registration Number
≥50 - <75 %	free crystalline silica (Ø >10 μ)	CAS:14808-60-7 EC:238-878-4		
≥25 - <50 %	Portland cement, Cr(VI) < 2 ppm	CAS:65997-15-1 EC:266-043-4	Skin Irrit. 2, H315; Skin Sens. 1B, H317; Eye Dam. 1, H318; STOT SE 3, H335	
≥1 - <2.5 %	calcium oxide	CAS:1305-78-8 EC:215-138-9	STOT SE 3, H335; Skin Irrit. 2, H315; Eye Dam. 1, H318	01-2119475325-36-XXXX
≥0.49 - <1 %	calcium aluminate sulfate	CAS:12005-25-3	Skin Sens. 1, H317	
≥0.025 - <0.05 %	free crystalline silica (Ø <10 μ)	CAS:14808-60-7 EC:238-878-4	STOT RE 2, H373	
< 0.00015 %	formaldehyde	CAS:50-00-0 EC:200-001-8	Acute Tox. 3, H311; Acute Tox. 3, H331; Acute Tox. 3, H301; Skin Corr. 1B, H314; Skin Sens. 1, H317; Muta. 2, H341; Carc. 1B, H350	01-2119488953-20-xxxx

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose of safely.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not induce vomiting, get medical attention showing the SDS and the hazard label.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

4.2. Most important symptoms and effects, both acute and delayed

Eye irritation

Eye damages

Skin Irritation

 Date
 29/09/2020
 Production Name
 MAPEGROUT T 60
 Page n. 2 of 13

4.3. Indication of any immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

(see paragraph 4.1)

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO2).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

5.3. Advice for firefighters

Use suitable breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations

Scoop into containers and seal for disposal.

Retain contaminated washing water and dispose it.

6.4. Reference to other sections

See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Keep away from food, drink and feed.

Incompatible materials:

None in particular.

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

Recommendation(s)

None in particular

Industrial sector specific solutions:

None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

List of components with OEL value

Component	OEL Type	Country	Ceiling	Term	Long Term	Short Term	Short Term	Behaviour Note
				mg/m3	ppm	mg/m3	ppm	

 Date
 29/09/2020
 Production Name
 MAPEGROUT T 60
 Page n. 3 of 13

free crystalline silica (Ø >10 μ)	NDS	POLAND	0.300		frakcja respirabilna
	National	DENMARK	0.3		DENMARK, inhalable aerosol
	National	DENMARK	0.100		DENMARK, respirable aerosol
	SUVA	GERMANY	0.150		50 μg/m³ (Partikel Durchmesser < 12 μm) - TRGS 906
	National	SWITZERLAND	0.15		A
	ACGIH	NNN	0.025		(R), A2 - Pulm fibrosis, lung cancer
	National	NORWAY	0.300		K 7
	National	AUSTRALIA	0.050		
Portland cement, Cr(VI) < 2 ppm	< National	FINLAND	1		FINLAND, respirabel fraktion
	NDS	POLAND	6		frakcja wdychalna
	NDS	POLAND	2		frakcja respirabilna
	SUVA	SWITZERLAND	5		A4 - Not Classifiable as a Human Carcinogen; pulmonary function; respiratory symptoms; asthma
	DFG	GERMANY	15		
	National	SPAIN	4.000		5 mg/m3 TWA (containing <1% of free Silica, respirable dust);10 mg/m3 TWA (containing <1% of free Silica, total dust)
	National	PORTUGAL	10		
	National	BELGIUM	10		
	National	HUNGARY	10		
	Malaysi a OEL	MALAYSIA	10.000		
	National	UNITED KINGDOM	10.000		inhalable dust
	National	UNITED KINGDOM	4.000		respirable dust
	National	CROATIA	10.000	10.000	
	DFG	GERMANY C	15		
	ACGIH	AUSTRALIA	1.000		A4 - Not Classifiable as a Human Carcinogen; pulmonary function; respiratory symptoms; asthma
	Malaysi a OEL	MALAYSIA	10		5 mg/m3 TWA (containing <1% of free Silica, respirable dust);10 mg/m3 TWA (containing <1% of free Silica, total dust)
	National	UNITED KINGDOM	10	30.000	5 mg/m3 TWA (containing <1% of free Silica, respirable dust);10 mg/m3 TWA (containing <1% of free Silica, total dust)
	National	UNITED KINGDOM	4.000		
	National	ROMANIA	10		
	National	CROATIA	4.000	10	

Date 29/09/2020 Production Name MAPEGROUT T 60 Page n. 4 of 13

	ACGIH	1		A4 - Not Classifiable as a Human Carcinogen;pulmonary function;respiratory symptoms;asthma
	National SPAIN	4		
	National FINLAND	5		
	National FINLAND	1		
	National PORTUGAL	1		
	National BELGIUM	1		
	NDS POLAND	6		
	NDS POLAND	2		
	National LATVIA	6		
	National UNITED KINGDOM	10	30	
	National UNITED KINGDOM	10	12	
	National UNITED KINGDOM	4	30	
	National CROATIA	10		
	National CROATIA	4		
calcium oxide	NDS NNN	2		
	NDSCh NNN	6		
	ACGIH NNN	2		URT irr
	National SWEDEN	1	2.5	SWEDEN, Short-term value, 15 minutes average value
	National FINLAND	2		
	National NORWAY	2		NORWAY, T
	National FINLAND	2		
	National NORWAY	2	4	
	DFG GERMANY C		2	
	ACGIH	2		upper respiratory tract irritation
	National SWEDEN	1		
	National FRANCE	2		
	National SPAIN	1	4	
	National GREECE	1	4	
	National DENMARK	1		
	National FINLAND	1	4	
	National GERMANY	1		
	National PORTUGAL	2		
	National NORWAY	1	2	
	National BELGIUM	2		
	NDS POLAND	2		
	NDS POLAND	1		
	NDSCh POLAND		6	
	NDSCh POLAND		4	
	CHE SWITZERLAND		2	
	NDS NETHERLANDS	1	4	
	National CZECH REPUBLIC	1		
	National HUNGARY	1	4	
	Malaysi MALAYSIA a OEL	2		
	National ESTONIA	1	4	
Date 29/09/2020	Production Name MAPE	GROUT T 60		Page n. 5 of 13

	Nationa	I LATVIA		1		4		
	Nationa	I CZECH REPUBLIC	С			4		
	Nationa	I SLOVAKIA		5				
	Nationa	I SLOVENIA		5		5		
		I UNITED KINGDOM		1		4		
	Nationa	I UNITED KINGDOM		1		6		
	Nationa	I UNITED KINGDOM		2		4		
	Nationa	I BULGARIA		1		4		
	Nationa	I ROMANIA		1		4		
	Nationa	I LITHUANIA		1		4		
	Nationa	I CROATIA		1		4		
	Nationa	I DENMARK		2				
	Nationa	I PORTUGAL		2		4		
	Nationa	I BELGIUM		1		4		
	Nationa	I SLOVENIA		1		4		
free crystalline silica (Ø <10 μ)	Nationa	I SWEDEN		0.100				SWEDEN, respirable aerosol
	Nationa	I NORWAY		0.100				K 7
	NDS	POLAND		2.000				frakcja wdychalna
	NDS	POLAND		0.300				frakcja respirabilna
		I DENMARK		0.3		0.600		DENMARK, inhalable aerosol inhalable aerosol
	Nationa	I DENMARK		0.100		0.200		DENMARK, respirable aerosol
	EU	NNN		0.1				A2 (R) - Pulm fibrosis, lung cancer
	ACGIH	NNN		0.025				(R), A2 - Pulm fibrosis, lung cancer
	Nationa	I AUSTRIA		0.150				A
	Nationa	I AUSTRALIA		0.050				
formaldehyde	ACGIH	NNN	С				0.3	DSEN, RSEN, A2 - URT and eye irr
	DFG	GERMANY	С			0.74	0.6	
	ACGIH				0.1		0.3	A1 - Confirmed Human Carcinogen; eye and upper respiratory tract irritation; upper respiratory tract cancer; dermal sensitizer; respiratory sensitizer
	Nationa	I SWEDEN		0.37	0.3			
	Nationa	I FRANCE			0.5		1	
		I SPAIN		0.37	0.3	0.74	0.6	
		I GREECE		2.5	2	2.5	2	
		I DENMARK	С	-		0.4	0.3	
		I FINLAND	-	0.37	0.3			
		I FINLAND	С	0.57	0.0	1.2	1	
		I GERMANY	J	0.37	0.3		-	
		I NORWAY		0.6	0.5			
		II NORWAY	С	0.0	0.5	1.2	1	
	NDS	POLAND	C	0.37		1.2	•	

Date 29/09/2020 Production Name MAPEGROUT T 60 Page n. 6 of 13

NDSCh	POLAND				0.74		
CHE	SWITZERLAND				0.74	0.6	
NDS	NETHERLANDS		0.15		0.5		
Nationa	l CZECH REPUBLIC		0.5				
Nationa	I HUNGARY		0.6		0.6		
Malaysi a OEL	MALAYSIA	С			0.37	0.3	
Nationa	I PORTUGAL	С				0.3	
Nationa	I ESTONIA		0.6	0.5	1.2	1	
Nationa	I LATVIA		0.5				
Nationa	l CZECH REPUBLIC	С			1		
Nationa	I SLOVAKIA	С			0.74		
Nationa	I SLOVAKIA		0.37	0.3			
Nationa	I SLOVENIA		0.62	0.5	0.62	0.5	
Nationa	I UNITED KINGDOM		2.5	2	2.5	2	
Nationa	I BULGARIA		1.0		2.0		
Nationa	I ROMANIA		1.2	1	3	2	
Nationa	l LITHUANIA		0.6	0.5			
Nationa	l LITHUANIA	С			1.2	1	
Nationa	I CROATIA		2.5	2	2.5	2	
EU			0.37	0.3			Binding

Predicted No Effect Concentration (PNEC) values

Component	CAS-No.	PNEC Limit	Exposure Route	Exposure Frequency Remark
calcium oxide	1305-78-8	0.49 mg/l	Fresh Water	
		0.32 mg/l	Marine water	
		3 mg/l	Microorganisms in sewage treatments	
		1080 mg/kg	Soil	
		816 mg/l	Soil	

Derived No Effect Level. (DNEL)

Component	CAS-No.	Worker Worke Industr Profes y ional		Exposure Route	Exposure Frequency Remark
calcium oxide	1305-78-8	4 mg/m3	4 mg/m3	Human Inhalation	Short Term, local effects
		1 mg/m3	1 mg/m3	Human Inhalation	Long Term, local effects

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Suitable materials for safety gloves; EN 374:

Polychloroprene - CR: thickness >=0,5mm; breakthrough time >=480min.

Nitrile rubber - NBR: thickness >=0,35mm; breakthrough time >=480min.

Butyl rubber - IIR: thickness >=0,5mm; breakthrough time >=480min.

Fluorinated rubber - FKM: thickness >=0,4mm; breakthrough time >=480min.

Nitrile gloves are suggested (1,3 mm; 480 min). Not recommended gloves: not waterproof gloves

Respiratory protection:

Personal Protective Equipment should comply with relevant CE standards (as EN 374 for gloves and EN 166 for goggles), correctly maintained and stored. Consult the supplier to check the suitability of equipment against specific chemicals and for user

Date 29/09/2020 Production Name MAPEGROUT T 60 Page n. 7 of 13

information.

A dust mask (P2) should be worn if above exposure limits (EN 149)

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Hygienic and Technical measures

N.A

Appropriate engineering controls:

N.A.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: Solid

Appearance and colour: Powder Grey

Odour: cement like Odour threshold: N.A.

pH: N.A.

pH (water dispersion, 10%): 12,50 Melting point / freezing point: N.A. Initial boiling point and boiling range: N.A.

Flash point: N.A. Evaporation rate: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A. Vapour pressure: N.A. Relative density: N.A.

Solubility in water: partly soluble

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A. Decomposition temperature: N.A.

Viscosity: N.A.

Explosive properties: ==
Oxidizing properties: N.A.
Solid/gas flammability: N.A.

9.2. Other information

No additional information

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

None.

10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

None in particular.

10.6. Hazardous decomposition products

None.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Contains cement. Cement gives a strong alkaline reaction with water and body fluids (e.g. sweat and eye fluids), therefore the contact with skin and eyes should be carefully avoided.

Toxicological information of the mixture:

There is no toxicological data available on the mixture. Consider the individual concentration of each component to assess toxicological effects resulting from exposure to the mixture.

Toxicological information on main components of the mixture:

free crystalline silica (Ø $\,$ a) acute toxicity $\,$ LD50 Oral > 2000 mg/kg

 $>10 \mu)$

LD50 Skin > 2000 mg/kg

 Date
 29/09/2020
 Production Name
 MAPEGROUT T 60
 Page n. 8 of 13

LD50 Oral Rat > 2000 mg/kg calcium oxide a) acute toxicity LD50 Skin Rat > 2500 mg/kg LD50 Oral Rat = 500 mg/kg free crystalline silica (Ø a) acute toxicity LD50 Oral Rat = 500 mg/kg <10 µ) formaldehyde a) acute toxicity LD50 Oral Rat = 100 mg/kg LD50 Skin Rabbit = 270 mg/kg LC50 Inhalation Rat = 0.578 mg/l 4h

If not differently specified, the information required in Regulation (EU)2015/830 listed below must be considered as N.A.

- a) acute toxicity
- b) skin corrosion/irritation
- c) serious eye damage/irritation
- d) respiratory or skin sensitisation
- e) germ cell mutagenicity
- f) carcinogenicity
- g) reproductive toxicity
- h) STOT-single exposure

Toxicological kinetics, metabolism and distribution information

- i) STOT-repeated exposure
- j) aspiration hazard

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

Eco-Toxicological Information:

List of components with eco-toxicological properties			
Component	Ident. Numb.	Ecotox Infos	
calcium oxide	CAS: 1305-78-8 - EINECS: 215-138-9	a) Aquatic acute toxicity: LC50 Fish = 457 mg/L 96	
		a) Aquatic acute toxicity: EC50 Daphnia = 49.1 mg/L 48	
		b) Aquatic chronic toxicity: NOEC Daphnia = 32 mg/L - 14 d	
		a) Aquatic acute toxicity: LC50 Fish = 50.6 mg/L 96	
		a) Aquatic acute toxicity: LC50 Daphnia = 158 mg/L 96	
		a) Aquatic acute toxicity: EC50 Algae = 184.57 mg/L 72	
		b) Aquatic chronic toxicity: NOEC Algae = 48 mg/L 72	
		a) Aquatic acute toxicity: LC50 Fish Cyprinus carpio = 1070 mg/L 96h IUCLID	
formaldehyde	CAS: 50-00-0 - EINECS: 200-001-8	a) Aquatic acute toxicity : LC50 Fish Lepomis macrochirus = 1510 $\mu g/L$ 96h EPA	
		a) Aquatic acute toxicity: LC50 Fish Brachydanio rerio = 41 mg/L 96h IUCLID	
		a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss 100 mg/L 96h EPA	
		a) Aquatic acute toxicity: LC50 Daphnia Daphnia magna = 2 mg/L 48h IUCLID	
		a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 22.6 mg/L 96h EPA	
		a) Aquatic acute toxicity: LC50 Fish Oncorhynchus mykiss 0.032 mL/L 96h EPA	
		a) Aquatic acute toxicity: LC50 Fish Pimephales promelas 23.2 mg/L 96h EPA	
		a) Aquatic acute toxicity: EC50 Daphnia Daphnia magna 11.3 mg/L 48h EPA	

12.2. Persistence and degradability

Date 29/09/2020 **Production Name** MAPEGROUT T 60 Page n. 9 of 13 N.A.

12.3. Bioaccumulative potential

N.A.

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

No PBT/vPvB Ingredients are present

12.6. Other adverse effects

N.A.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

A waste code according to European waste catalogue (EWC) cannot be specified, due to dependence on the usage. Contact an authorized waste disposal service.

Product:

Do not dispose of waste into sewers.

Do not contaminate ponds, waterways or ditches with chemical or used container.

Send to an authorized waste disposal service.

Contaminated packaging:

Empty remaining content.

Dispose of as unused product.

Do not re-use empty containers.

SECTION 14: Transport information

Not classified as dangerous in the meaning of transport regulations.

14.1. UN number

N.A.

14.2. UN proper shipping name

N.A

14.3. Transport hazard class(es)

N.A.

14.4. Packing group

N.A.

14.5. Environmental hazards

NΑ

14.6. Special precautions for user

N.A.

Road and Rail (ADR-RID):

NΑ

ADR-Hazard identification number: NA

Air (IATA):

N.A.

Sea (IMDG) :

N.A.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

N.A.

SECTION 15: Regulatory information

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

VOC (2004/42/EC): N.A. g/l

The product contains Cr (VI) under the limits established by annex. XVII pt.47. Respect the duration according to the information described on the packaging.

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH)

Regulation (EU) 2015/830

Regulation (EC) n. 1272/2008 (CLP)

 Date
 29/09/2020
 Production Name
 MAPEGROUT T 60
 Page n. 10 of 13

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Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
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Provisions related to directive EU 2012/18 (Seveso III):

N.A.

German Water Hazard Class.

1

Code

11201

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product: 40

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Restrictions related to the substances contained: None

SVHC Substances:

No data available MAL-kode: 00-4 (1993)

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

SECTION 16: Other information

Description

H301	loxic if swallowed.			
H311	Toxic in contact with skin.			
H314	Causes severe skin burns and eye damage.			
H315	Causes skin irritation.			
H317	May cause an allergic skin reaction.			
H318	Causes serious eye damage.			
H331	Toxic if inhaled.			
H335	May cause respiratory irritation.			
H341	Suspected of causing genetic defects.			
H350	May cause cancer.			
H373	May cause damage to organs through prolo	nged or repeated exposure.		
Code	Hazard class and hazard category	Description		
3.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Cated		
3.1/3/Inhal	Acute Tox. 3	Acute toxicity (inhalation), Ca		

Couc	riazara ciass ana nazara category	Description
3.1/3/Dermal	Acute Tox. 3	Acute toxicity (dermal), Category 3
3.1/3/Inhal	Acute Tox. 3	Acute toxicity (inhalation), Category 3
3.1/3/Oral	Acute Tox. 3	Acute toxicity (oral), Category 3
3.2/1B	Skin Corr. 1B	Skin corrosion, Category 1B
3.2/2	Skin Irrit. 2	Skin irritation, Category 2
3.3/1	Eye Dam. 1	Serious eye damage, Category 1
3.4.2/1	Skin Sens. 1	Skin Sensitisation, Category 1
3.4.2/1B	Skin Sens. 1B	Skin Sensitisation, Category 1B
3.5/2	Muta. 2	Germ cell mutagenicity, Category 2
3.6/1B	Carc. 1B	Carcinogenicity, Category 1B
3.8/3	STOT SE 3	Specific target organ toxicity — single exposure, Category 3
3.9/2	STOT RE 2	Specific target organ toxicity — repeated exposure, Category 2

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation Classification procedure (EC) Nr. 1272/2008

 Date
 29/09/2020
 Production Name
 MAPEGROUT T 60
 Page n. 11 of 13

3.2/2 Calculation method
3.3/1 Calculation method
3.4.2/1B Calculation method
3.8/3 Calculation method

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This SDS cancels and replaces any preceding release.

Legend to abbreviations and acronyms used in the safety data sheet:

ACGIH: American Conference of Governmental Industrial Hygienists

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

AND: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

ATE: Acute Toxicity Estimate

ATEmix: Acute toxicity Estimate (Mixtures)

BCF: Biological Concentration Factor

BEI: Biological Exposure Index

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CAV: Poison Center

CE: European Community

CLP: Classification, Labeling, Packaging.

CMR: Carcinogenic, Mutagenic and Reprotoxic

COD: Chemical Oxygen Demand

COV: Volatile Organic Compound

CSA: Chemical Safety Assessment

CSR: Chemical Safety Report

DMEL: Derived Minimal Effect Level

DNEL: Derived No Effect Level.

DPD: Dangerous Preparations Directive

DSD: Dangerous Substances Directive

EC50: Half Maximal Effective Concentration

ECHA: European Chemicals Agency

EINECS: European Inventory of Existing Commercial Chemical Substances.

ES: Exposure Scenario

GefStoffVO: Ordinance on Hazardous Substances, Germany.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IARC: International Agency for Research on Cancer

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

IC50: half maximal inhibitory concentration

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

IRCCS: Scientific Institute for Research, Hospitalization and Health Care

KSt: Explosion coefficient.

LC50: Lethal concentration, for 50 percent of test population.

LD50: Lethal dose, for 50 percent of test population.

LDLo: Leathal Dose Low N.A.: Not Applicable

N/A: Not Applicable

N/D: Not defined/ Not available

NA: Not available

NIOSH: National Institute for Occupational Safety and Health

NOAEL: No Observed Adverse Effect Level

OSHA: Occupational Safety and Health Administration.

PBT: Persistent, Bioaccumulative and Toxic

Date 29/09/2020 Production Name MAPEGROUT T 60 Page n. 12 of 13

PGK: Packaging Instruction

PNEC: Predicted No Effect Concentration.

PSG: Passengers

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STEL: Short Term Exposure limit. STOT: Specific Target Organ Toxicity.

TLV: Threshold Limiting Value.

TWATLV: Threshold Limit Value for the Time Weighted Average 8 hour day. (ACGIH Standard).

vPvB: Very Persistent, Very Bioaccumulative.

WGK: German Water Hazard Class.

Paragraphs modified from the previous revision:

- 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING
- 2. HAZARDS IDENTIFICATION
- 3. COMPOSITION/INFORMATION ON INGREDIENTS
- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 9. PHYSICAL AND CHEMICAL PROPERTIES
- 11. TOXICOLOGICAL INFORMATION
- 12. ECOLOGICAL INFORMATION
- 14. TRANSPORT INFORMATION
- 15. REGULATORY INFORMATION
- 16. OTHER INFORMATION

 Date
 29/09/2020
 Production Name
 MAPEGROUT T 60
 Page n. 13 of 13