

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 1/06/2015 Revision date: 25/01/2019 Version: 2.0

SECTION 1: Identification of the substa	Ince/mixture and of the company/undertaking
1.1. Product identifier	,
Product form	: Mixture
Product name	: Cafco MANDOLITE®-CP2
Type of product	: Dry powder
Product group	: Fire protective spray.
1.2. Relevant identified uses of the substan	ce or mixture and uses advised against
1.2.1. Relevant identified uses	
Main use category	: Professional use
Use of the substance/mixture	: Fire protection in buildings.
1.2.2. Uses advised against	
No additional information available	
1.3. Details of the supplier of the safety dat	a sheet
Supplier	Other
Siniat S.A Le Pin	Etex Building Performance N.V.
3 Route de Claye	Bormstraat 24
77181 Le Pin - France	2830 Tisselt - BELGIUM
T +33 1 60 26 64 00	T +32 15 71 81 00 - F +32 15 71 81 09
www.siniat.fr	info@promat-international.com - www.promat-international.com
Other	Other
Etex Building Performance Limited	Etex Building Performance S.p.A.
Gordano House, Marsh Lane, Easton-in-Gordano	Via Perlasca 14
Eastern Road	27010 Vellezzo Bellini (PV) - Italy
BS20 0NE Bristol - United Kingdom	T +39 0382 4575 245 - F +39 0382 4575 250
T +44 1275 377 773	<u>info@promat.it</u> - <u>www.promat.it</u>
marketinguk@promat.co.uk - www.promat.co.uk	
Other	Other
Promat TOP Sp. z.o.o.	Promat s.r.o.
ul. Przeclawska 8	Ckalova 22/784
03-879 Warszawa - Poland	16000 Praha 6 - Bubenec - Czech Republic
T +48-22 212 2280 - F +48-22 212 2290	T +420 224 390 811 - F +420 233 333 576
top@promattop.pl - www.promattop.pl	promat@promatpraha.cz - <u>www.promatpraha.cz</u>
Other	Other
Promat France	Etex Building Performance, Etex Nordic A/S
2 rue Charles-Edouard JEANNERET- CS 90129	Kometvej 36
78306 POISSY Cedex - France	6230 Rodekro - Denmark
T +33 1 39 79 61 60	T +45 7366 1999
<u>info@promat.fr</u> - <u>www.promat.fr</u>	<u>info@promat.nu</u> - <u>www.promat.nu</u>
Other	Other
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Other	Other
Etex Building Performance GmbH	Etex Builing Performance B.V.
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info.at@etexgroup.com - www.promat.at	<u>info@promat.nl</u> - <u>www.promat.nl</u>
Other	Other
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4220 Skofja Loka - Slovenia	8545 Rickenbach Sulz - Switzerland
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info@promat-see.com - www.promat-see.com	office@promat.ch - www.promat.ch
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1.4. Emergency Emergency number	Image: second			e number.
Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals-24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD Msida	+356 2545 6504	
United Kingdom	Guy's & St Thomas' Poisons Unit Medical Toxicology Unit, Guy's & St Thomas' Hospital Trust	Avonley Road SE14 5ER London	+44 20 7188 7188	

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation	H335

Full text of H statements : see section 16

#### Adverse physicochemical, human health and environmental effects

Causes serious eye damage. Causes skin irritation. May cause respiratory irritation. May cause an allergic skin reaction. **2.2. Label elements** 

Labelling according to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP)

	GHS05 GHS07
Signal word (CLD)	
Signal word (CLP)	: Danger
Hazardous ingredients	: Portland cement
Hazard statements (CLP)	<ul> <li>: H315 - Causes skin irritation.</li> <li>H317 - May cause an allergic skin reaction.</li> <li>H318 - Causes serious eye damage.</li> <li>H335 - May cause respiratory irritation.</li> </ul>
Precautionary statements (CLP)	<ul> <li>P261 - Avoid breathing dust, mist, spray.</li> <li>P264 - Wash hands, forearms and face thoroughly after handling.</li> <li>P280 - Wear protective clothing, protective gloves, eye protection, face protection.</li> <li>P305+P351+P338+P310 - IF IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER.</li> <li>P312 - Call a POISON CENTER if you feel unwell.</li> <li>P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.</li> </ul>
Extra phrases	: Skin contact with wet cement, fresh concrete or mortar may cause irritation, dermatitis or burns. May cause damage to products made of aluminium or other non-noble metals.

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#### 2.3. Other hazards Other hazards not contributing to the classification : Depending upon the source of the Portland cement, the product could be contaminated with chromium VI. - In several countries, the soluble chromium VI is legally limited to 0.0002% of the total dry weight. If soluble chromium VI is present in the Portland cement above the 0.0002%, a reduction agent has been added to it to keep the content of soluble chromium VI under the 0,0002%. The activity of this reduction agent is limited in time, what limits the shelf life of the product. The product should be used within 1 year after its production date. Natural contamination of some substances of the preparation with crystalline silica could occur. The inhalation of quartz containing dust, in particular the fine dust fraction(respirable size), in high concentrations or over repeated or prolonged periods of time can be hazardous to health and may lead to chronic lung disease and an increased risk of lung cancer. This risk will be minimal if correct working practices are observed and applied. (Refer to Section 8). According to the International Agency for Research on Cancer (IARC Monograph Volume 100C - 2012) "Crystalline silica inhaled in the form of quartz or cristobalite is carcinogenic to humans(Group 1).".

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

3.1	i. Si	IDS	tan	CE
No	t apr	olica	ble	

3.2. Mixtures				
Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	
Vermiculite	(CAS-No.) 1318-00-9 (EC-No.) 310-127-6	< 60	Not classified	
Portland cement	(CAS-No.) 65997-15-1 (EC-No.) 266-043-4 (REACH-no) 02-2119682167-31	20-40	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335	
Fly ashes	(CAS-No.) 68131-74-8 (EC-No.) 268-627-4 (REACH-no) 01-2119491179-27	<15	Eye Irrit. 2, H319	
Flue dust Portland cement	(CAS-No.) 68475-76-3 (EC-No.) 270-659-9 (REACH-no) 01-2119486767-17	<5	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1B, H317 STOT SE 3, H335	
Cristobalite substance with a Community workplace exposure limit	(CAS-No.) 14464-46-1 (EC-No.) 238-455-4	<0.1	STOT RE 1, H372	
Crystalline silica (quartz) substance with a Community workplace exposure limit	(CAS-No.) 14808-60-7 (EC-No.) 238-878-4	<0.1	STOT RE 1, H372	
Specific concentration limits:				
Name	Product identifier	Specific con	centration limits	
Crystalline silica (quartz)	(CAS-No.) 14808-60-7 (EC-No.) 238-878-4	( 1 <c 10)="" 2,="" <="" h373<br="" re="" stot="">( 10 =<c 1,="" 100)="" <="" h372<="" re="" stot="" td=""></c></c>		

#### Full text of H-statements: see section 16

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: IF exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Rinse throat with water and blow nose to evacuate dust. If nose or airways become inflamed, seek medical advice.
First-aid measures after skin contact	: Remove all dust as much as possible. Take off contaminated clothing. Rinse the skin immediately with plenty of water and soap. If skin irritation or rash occurs: Get medical advice/attention. In case of allergy, seek medical advise.
First-aid measures after eye contact	: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth out with water. Do not induce vomiting without medical advice.
4.2. Most important symptoms and effects,	both acute and delayed
Symptoms/effects after inhalation	: May cause irritation to the respiratory tract and to other mucous membranes.

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Symptoms/effects after skin contact	: The Portland cement components may lead to transient irritation of skin, eyes or respiratory system. When moistened by water or sweat, the Portland cement component may lead to skin inflammation, contact dermatitis or even delayed onset burns due to high alcalinity. May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Risk of serious damage to eyes.
Symptoms/effects after ingestion	: Not expected to present a significant ingestion hazard under anticipated conditions of normal use.
4.2 Indication of any immediate modi	and attention and analial treatment needed

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

SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: All extinguishing media can be used.
5.2. Special hazards arising from the substa	ince or mixture
Reactivity in case of fire	: Product is not explosive. The product is non-combustible.
Hazardous decomposition products in case of fire	: Toxic fumes may be released. Carbon oxides (CO, CO2).
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures 6.1. Personal precautions, protective equipment and emergency procedures		
6.1.1. For non-emergency personnel		
Protective equipment	: Wear recommended personal protective equipment.	
Emergency procedures	: Do not breathe dust. Avoid contact with skin and eyes. Dampen down any dust or use vacuum cleaner with correct filter.	
Measures in case of dust release	: Prevent spread of dust.	
6.1.2. For emergency responders		
No additional information available		
6.2. Environmental precautions		
	r soil. Dampen down any dust before putting into skips or use vacuum cleaner with correct	
filter.		
6.3. Methods and material for containment a	ind cleaning up	
For containment	: Use closed containers to avoid dust release.	
Methods for cleaning up	: Dampen down any dust or use vacuum cleaner with correct filter. Minimise generation of dust.	
Other information	: Dispose of materials or solid residues at an authorized site.	
6.4. Reference to other sections		
See sections 7, 8 and 11.		

SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Use only outdoors or in a well-ventilated area. Use always respiratory protective equipment when exposures are likely or can be foreseen to exceed the Occupational Exposure Limits or Workplace Exposure Limits in the UK (refer to local regulations). Avoid all unnecessary exposure. Avoid contact with skin and eyes. Ensure prompt removal from eyes, skin and clothing.
Handling temperature	: 4 - 45 °C
Hygiene measures	: Use good housekeeping practices to avoid rendering dust airborne. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Take off contaminated clothing and wash it before reuse. Contaminated work clothing should not be allowed out of the workplace.
7.2. Conditions for safe storage, including a	ny incompatibilities
Storage conditions	: Store locked up. Protect from moisture. Keep bags closed when not in use. Keep away from food, drink and animal feeding stuffs. Store in dry, covered and frost proof area.
Incompatible materials	: Avoid contact with aluminium.
Maximum storage period	: 12 months The packaging is marked with the packing date, the storage conditions and the storage period appropriate to maintain the activity of the reducing agent and to keep the content of soluble chromium VI below the limit indicated in section 2.
7.3. Specific end use(s)	
Fire protection in buildings.	

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SECTION 8: Exposure controls/personal protection 8.1. Control parameters			
Crystalline silica (quartz) (14808-60-7)			
EU	Local name	Silica crystaline (Quartz)	
EU	Notes	(Year of adoption 2003)	
EU	Regulatory reference	SCOEL Recommendations	
Ireland	Local name	Quartz, respirable dust, (see Silica, crystalline)	
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	0,1 mg/m³	
Ireland	Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018	
United Kingdom	Local name	Silica	
United Kingdom	WEL TWA (mg/m³)	0,1 mg/m <sup>3</sup> respirable crystalline	
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE	
Iceland	Local name	Kvars	
Iceland	OEL (8 hours ref) (mg/m <sup>3</sup> )	0,3 mg/m³ heildarryk	
Iceland	OEL (8 hours ref) (ppm)	0,1 ppm örfínt ryk	
Iceland	Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)	

Cristobalite (14464-46-1)			
EU Local name Silica crystaline (Cristobalite)		Silica crystaline (Cristobalite)	
EU	Notes	(Year of adoption 2003)	
EU	Regulatory reference	SCOEL Recommendations	
Ireland	Local name	Cristobalite, respirable dust, (see Silica, Crystalline)	
Ireland	OEL (8 hours ref) (mg/m³)	0,1 mg/m³	
Ireland	Regulatory reference	Code of Practice for the Chemical Agents Regulations 2018	

Portland cement (65997-15-1)		
Ireland	Local name	Portland Cement (Cement (Portland))
Ireland	OEL (8 hours ref) (mg/m <sup>3</sup> )	1 mg/m <sup>3</sup> R (Respirable Fraction)
Ireland	Regulatory reference     Code of Practice for the Chemical Agents Regulations 2018	
United Kingdom	Local name	Portland cement
United Kingdom WEL TWA (mg/m <sup>3</sup> ) 10 mg/m <sup>3</sup> inhalable dust 4 mg/m <sup>3</sup> respirable dust		
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE
Occupational Exposure Limits / Workplace : - in UK: Inhalable: 10 mg/m <sup>3</sup> . Respirable: 4 mg/m <sup>3</sup>		

Exposure Limits for particles not otherwise classified or regulated (nuisance dust)

- in Ireland: Inhalable: 10 mg/m<sup>3</sup>. Respirable: 4 mg/m<sup>3</sup>

Additional information

: Exposure limit values have been established by many authorities. Check on limit values that apply in your local situation. Ensure all national/local regulations are observed.

## 8.2. Exposure controls

Appropriate engineering controls:

Provide adequate ventilation to minimize dust concentrations. Ensure exposure is below occupational exposure limits (where available).

#### Hand protection:

Use alkali resistant gloves.

#### Eye protection:

Safety glasses with side shields. Use splash goggles when eye contact due to splashing is possible. Foresee eye cleaning on the workplace.

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#### Skin and body protection:

Use loose work clothes with closed sleeves. Preventive skin protection creams can be used, but not after skin contact with the product.

#### **Respiratory protection:**

Use appropriate respiratory equipment when exposures are likely or can be foreseen to exceed the Occupational Exposure Limits or Workplace Exposure Limits for the UK (e.g. for exposures up to 10 times the OEL (WEL) use at least a P2 type dust mask. For higher exposure, use a P3 type mask). Respiratory equipment required during spraying.

### Environmental exposure controls:

Avoid release to the environment. Do not allow to enter drains or water courses.

SECTION 9: Physical and chemical properties			
9.1. Information on basic physical and chemical properties			
Physical state	: Solid		
Appearance	: Flaky powder.		
Colour	: Grey.		
Odour	: odourless.		
Odour threshold	: No data available		
рН	: No data available		
pH solution	: 12 - 12,5 (in aqueous solution).		
Relative evaporation rate (butylacetate=1)	: No data available		
Melting point	: > 1430 °C		
Freezing point	: Not applicable		
Boiling point	: No data available		
Flash point	: Not applicable		
Auto-ignition temperature	: Not applicable		
Decomposition temperature	: No data available		
Flammability (solid, gas)	: Non flammable.		
Vapour pressure	: No data available		
Relative vapour density at 20 °C	: No data available		
Relative density	: No data available		
Solubility	: Water: Slightly soluble		
Log Pow	: No data available		
Viscosity, kinematic	: No data available		
Viscosity, dynamic	: No data available		
Explosive properties	: No data available		
Oxidising properties	: No data available		
Explosive limits	: Not applicable		
9.2. Other information			

No additional information available

SECTION 10: Stability and reactivity
10.1. Reactivity The product is non-reactive under normal conditions of use, storage and transport.
10.2. Chemical stability
Stable under normal conditions. Shelf life is maximum 12 months.
10.3. Possibility of hazardous reactions
No dangerous reactions known under normal conditions of use.
10.4. Conditions to avoid
Humidity during storage.
10.5. Incompatible materials
Strong acids.
10.6. Hazardous decomposition products
Under normal conditions of storage and use, hazardous decomposition products should not be produced. Alkaline mixture.
SECTION 11: Toxicological information

11.1. Information on toxicological effects		
Acute toxicity (oral)	: Not classified	
Acute toxicity (dermal)	: Not classified	
Acute toxicity (inhalation)	: Not classified	

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Portland cement (65997-15-1)	
LD50 oral	> 2000 mg/kg mouse
LD50 dermal rabbit	> 2000 mg/kg LD0 : 2000 mg/kg
Skin corrosion/irritation	: Cement powder or a mixture of cement with water can cause irritant contact dermatitis, and/or delayed onset of skin burns. These burns can be very serious in prolonged contact with skin.
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: May cause sensitisation of susceptible persons by skin contact
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential adverse human health effects and symptoms	: Inhaling cement dust may aggravate existing respiratory system disease(s) and/or medical conditions such as emphysema or asthma and/or existing skin and/or eye conditions.

SECTION 12: Ecological information				
12.1. Toxicity				
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.			
Acute aquatic toxicity	: Not classified			
Chronic aquatic toxicity	: Not classified			
12.2. Persistence and degradability				
No additional information available				
12.3. Bioaccumulative potential				
No additional information available				
12.4. Mobility in soil				
No additional information available				
12.5. Results of PBT and vPvB assessment				
No additional information available				
12.6. Other adverse effects				
Additional information	: Accidental spillage of cement powder in waste water, results in a low increase in the pH. Hydrated cement is a stable material that definitely sets its compounds and makes them insoluble Do not allow entry to drains, sewers, water courses or soil.			

SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Waste treatment methods	: To avoid classification as hazardous waste, the product can be cured with water. After curing the product can be handled as non-hazardous waste.
Product/Packaging disposal recommendations	: Dispose in a safe manner in accordance with local/national regulations.
European List of Waste (LoW) code	: 10 13 14 - waste concrete and concrete sludge 17 01 01 - concrete Please refer to the European list (Decision N° 2014/955/CE as modified) to identify the wastes appropriate waste number.

SECTION 14: Transport information n accordance with ADN / ADR / IATA / IMDG / RID				
ADR	IMDG	ΙΑΤΑ	ADN	RID
14.1. UN number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
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14.5. Environmental haz	ards			
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary informatio	n available			I
14.6. Special precaution	s for user			
Overland transport				
Not regulated				
Transport by sea				
Not regulated				
Air transport Not regulated				
Inland waterway transport				
Not regulated				
Rail transport				
Not regulated				
<b>14.7. Transport in bulk a</b> Not applicable	according to Annex II of	Marpol and the IBC Code		
SECTION 15: Regulat	ory information			
15.1. Safety, health and	environmental regulation	ons/legislation specific for	the substance or mixtur	e
15.1.1. EU-Regulations				
The following restrictions are	applicable according to Anr	ex XVII of the REACH Regulati	on (EC) No 1907/2006:	
47. Chromium VI compounds	8	Cafco MANDO	DLITE®-CP2	
Other information, restriction and prohibition regulations       : REGULATION (EC) n° 1907/2006 - REACH - Annex XVII, RESTRICTIONS MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN D SUBSTANCES, PREPARATIONS AND ARTICLES, 47:         1 Cement and cement-containing preparations shall not be used or placed if they contain, when hydrated, more than 0,0002 % soluble chromium VI of weight of the cement.         2 If reducing agents are used the packaging of cement or cement-containing shall be legibly and indelibly marked with information on the packing date, a storage conditions and the storage period appropriate to maintaining the ac reducing agent and to keeping the content of soluble chromium VI below the in paragraph 1.         15.1.2. National regulations		ECERTAIN DANGEROUS used or placed on the market nromium VI of the total dry ment-containing preparation acking date, as well as on th taining the activity of the		
No additional information ava				
15.2. Chemical safety as No chemical safety assessm				
SECTION 16: Other in				
Indication of changes:				
This sheet has been revised	completely (changes were n	ot marked).		
Full text of H- and EUH-sta	atements:			
Eye Dam. 1	Serious eye dam	age/eye irritation, Category 1		
Eye Irrit. 2	Serious eye dam	age/eye irritation, Category 2		
Skin Irrit. 2	Skin corrosion/irr	itation, Category 2		
Skin Sens. 1	Skin sensitisation	n, Category 1		
Skin Sens. 1B	Skin sensitisation	n, category 1B		
STOT DE 1	Specific toract or	gan toxicity Popoatod oxpos	ura Catagory 1	

STOT RE 1

Specific target organ toxicity - Repeated exposure, Category 1

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H315	Causes skin irritation.	
H317	May cause an allergic skin reaction.	
H318	Causes serious eye damage.	
H319	Causes serious eye irritation.	
H335	May cause respiratory irritation.	
H372	Causes damage to organs through prolonged or repeated exposure.	
H373	May cause damage to organs through prolonged or repeated exposure.	

Safety Data Sheet applicable for regions

: CY;GB;GI;IE;IS;MT

### SDS EU (REACH Annex II) custom

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