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	Issued on: 16. 11. 2006
	Revised on: 5. 10. 2011
	Version: 2

1. Identification of the substance/mixture and of the company/undertaking

1.1.	Product identifier (Product registration number):	Cegips, gypsum (01-2119444918-26-0164)	Identification no.: P077941
1.2.	Relevant identified uses of the substance/mixture and uses advised against:	Binding agents, fertilisers, fillers, soil conditioner.	
1.3.	Details of the supplier of the safety data sheet (manufacturer, importer, only representative, downstream user or distributor):		
1.3.1.	Supplier name:	CINKARNA CELJE, d.d.	Division: Titanium dioxide
1.3.2.	Supplier address and phone:	Kidričeva 26, 3001 Celje - Slovenija, +386 3 427 60 00	
1.3.3.	E-Mail (competent person):	anja.pfeifer@cinkarna.si	
1.4.	Emergency phone number:	+386 3 427 61 12 (Cinkarna Celje)	

2. Hazards identification

2.1.	Classification of substance or mixture: (Regulation (EC) No 1272/2008, Directive 67/548/ECC or Directive 1999/45/EC)	This substance is not classified as hazardous or dangerous.
2.2.	Label elements:	Labelling according regulation (EC) No 1272/2008.
2.3.	Other hazards:	No special remarkable hazards. Large quantities of dust may be produced during dry-state pulverization.

3. Composition/information on ingredients

3.1.	Substances/ mixture:
/3.2	

In accordance with EC Regulation n. 1272/2008

Chemical name	Index : N.a. EC n. : 231 - 900 - 3 CAS n. : 7778 – 18 - 9	Concentration (wt/vol/max. conc. %)	Hazard statements (H)	Hazard class and hazard category
Calcium sulfate dehydrate, gypsum		> 95 %		
Calcium carbonate	Index no: n.a. EC n.: 215 – 279 – 6 CAS n.: 1317 – 65 - 3	< 5 %		

In accordance with Directive 67/548/EEC

Chemical name	Index : N.a. EC n. : 231 - 900 - 3 CAS n. : 7778 – 18 - 9	Concentration (wt/vol/max. conc. %)	Hazard symbol	Risk statements R
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	CAS n.: 1317 – 65 - 3			
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4. First aid measures

4.1.	Description of first aid measures:	
	Inhalation:	Following inhalation of large quantities of dust remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.
	Skin contact:	If some discomfort appears immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.
	Eyes/mycosis contact:	Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.
	Ingestion:	Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention.
4.2	Most important symptoms and effects, acute and delayed:	No specific symptoms or effects have been reported.
4.3.	Indication of any immediate medical attention and special treatment needed:	N.a.

5. Firefighting measures

5.1.	Extinguishing media	
	Appropriate media:	Use any means suitable for extinguishing surrounding fire.
	Inappropriate media:	None.
5.2.	Specific hazards arising from the substance or mixture:	None.
5.3.	Advice for firefighters:	Product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings. No special protective equipment needed for fire – fighters.

6. Accidental release measures

6.1.	Personal precautions protective equipment and emergency procedures	
6.1.1.	For non-emergency persons:	Ventilate area of leak or spill. Wear appropriate personal protective equipment. Avoid generation of dust. Special danger of slipping by leaking/spilling product.
6.1.2.	For emergency responders:	Ventilate area of leak or spill. Wear appropriate personal protective equipment. Avoid generation of dust. Special danger of slipping by leaking/spilling product.
6.2.	Environmental precautions:	No special environmental measures are necessary.
6.3.	Methods and material for containment and cleaning:	
6.3.1.	Appropriate spillage retaining techniques (fencing, covering drains, retaining procedures):	All containment for dry substances suitable.
6.3.2.	Appropriate cleaning procedures	Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.
6.4.	Reference to other sections:	None.

7. Handling and storage

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7.1.	Precautions for safe handling	
7.1.1.	Recommendations shall be specified to:	Avoid inhalation of dust. Wear appropriate personal protective equipment.
	Safe handling of substance or mixture:	No special provisions if the product is used appropriately.
7.1.2.	General working hygiene (prohibited eating, drinking and smoking within working area; washing hands ...)	Do not to eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.
7.2.	Conditions for safe storage, including any incompatibilities	Non-combustible solids. For further information go to: storage according to BREF: "Emissions from storage" http://eippcb.jrc.es/reference/
	Other advice	Keep/ store only in original container.
	- specific designs for storage rooms or vessels (including retention walls and ventilation):	None.
7.3.	Specific end use(s):	Worse case exposure scenarios for humans and the environment are attached in Annex I of this data sheet.

8. Exposure control/ personal protection

8.1.	Control parameters	
8.1.1.	Limit values (MV):	6 (A) mg/m ³
	DNEL	Workers: - Inhalation; 5082 mg/m ³ (acute systemic effects), 21.17 mg/m ³ (long term systemic) General population: - Inhalation; 3811 mg/m ³ (acute systemic effects), 5.29 mg/m ³ (long term systemic) - Oral; 11.4 mg/kg _{bw} /day (acute systemic effects), 1.52 mg/kg _{bw} /day <8long term systemic)
	PNEC	Aquatic: not acutely toxic to fish, invertebrates, algae and microorganisms at the concentrations tested in the studies. Acute toxicity of calcium sulfate to fish, invertebrates, algae and microorganisms are generally greater than the highest concentrations tested and are greater than the maximum solubility of calcium sulfate in water. Sediment: not applicable due to ubiquitous nature of calcium and sulfate ions in the environment. Soil: not applicable due to ubiquitous nature of calcium and sulfate ions in the environment. STP: 100 mg/l
8.2.	Exposure control	Refer to exposure scenarios in annex I and section 7.
8.2.1.	Appropriate engineering controls:	Local exhaust ventilation for indoor use. Chimney filters for industrial use.
8.2.2.	Personal protective equipment:	
	- respiratory protection:	Wear protective mask in case of high dust generation.
	- skin protection:	Protective clothing.
	- hand protection:	Protective gloves.

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	- eye/face protection:	Wear protective glasses and respiratory mask in case of large quantities of dust generation.
	Other:	Refer to exposure scenarios.
8.2.3.	Environment exposure control:	Refer to exposure scenarios.

9. Physical and chemical properties

9.1.	Information on basic physical and chemical properties:	
	- appearance	Solid. Crystalline powder granulate.
	- color	Color varies white. Beige. Light yellow.
	- odor:	Neutral.
	pH:	In aqueous solution about 7.
	Melting/freezing point:	1450 °C
	Boiling point and boiling range :	N.a.
	Flash point:	N.a.
	flammability (solid, gas):	Not flammable.
	Upper/lower flammability or explosive limit:	N.a.
	Vapor pressure:	N.a.
	Relative density:	2.96 g/cm ³
	Solubility:	Water solubility about 2 g/l
	partition coefficient: n-octanol-water	Product is inorganic.
	Decomposition temperature:	Into CaSO ₄ x ½ H ₂ O and H ₂ O about 140 °C (about 413 K) Into CaSO ₄ and H ₂ O about 700 °C (about 973 K) Into CaO and SO ₃ about 1450 °C (about 1723 K)
	Explosion properties:	Not explosive.
	Oxidation properties:	Not oxidizing.
9.2.	Other information:	None.

10. Stability and reactivity

10.1.	Reactivity:	Materials to avoid: no materials known.
10.2.	Chemical stability:	The substance is stable under normal ambient and anticipated storage handling conditions of temperature and pressure.
10.3.	Possible hazardous reactions:	Mixing with an aqueous solution of sodium carbonate will result in formation of carbon dioxide.
10.4.	Conditions to avoid:	Avoid contamination by sulfur-reducing bacteria and water under anaerobic conditions.
10.5.	Incompatible materials:	No incompatible materials known.
10.6.	Hazardous decomposition products:	Decomposition takes place from temperatures above 1450 °C. Decomposition under formation of sulfur trioxide and calcium oxide.

11. Toxicological data

11.1.	Information on toxicological effects	
	- Acute toxicity:	Oral: LD ₅₀ (rat) > 1581mg/kg _{bw}

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		Dermal: no dermal toxicity envisaged due to low potential for absorption. Inhalation: LC ₅₀ (rat) > 2.61 mg/l
	- skin corrosion/irritation:	Not irritating.
	- Serious eye damage/irritation:	Not irritating.
	- respiratory or skin sensitization:	Not a skin sensitizer.
	- germ cell mutagenicity:	Not mutagenic.
	- Carcinogenicity:	No risk of carcinogenicity posed by calcium sulfate.
	- Toxicity for reproduction:	No signs of reproductive toxicity observed.
	- STOT – single exposure:	No organ toxicity observed in acute tests.
	- STOT – repeated exposure:	N.a.
	- Inhalation hazards:	No aspiration hazard envisaged.

12. Ecological information

12.1.	Toxicity:	Acute fish toxicity: LC ₅₀ > 79 mg/l Acute daphnia toxicity: EC ₅₀ > 79 mg/l Acute algae toxicity: E ₅₀ > 79 mg/l Toxicity to STP microorganisms: EC ₅₀ > 790 mg/l After neutralization, toxicity is no longer observed. The product can hydrolyse into calcium and sulfate ions. The stated effect can be caused partly by the hydrolysed products. The ecological data were measured on the hydrolysed product.
12.2.	Persistence and degradability:	The product hydrolyses quickly in the presence of water to Calcium and Sulfate ions. The individual components are poorly eliminated from water. The methods for determining the biological degradability are not applicable to inorganic substances. Inorganic product which is not eliminable from water through biological cleaning process.
12.3.	Accumulation in organisms:	Based on the n-octanol/water partition coefficient significant accumulation in organisms is not expected. No indication to bioaccumulation potential. The ecological data were measured on the hydrolysed product. According to experiences this product is inert and not degradable biologically.
12.4.	Mobility in soil:	Water-soluble solids. Natural constituent in soils. If product enters soil, it will be mobile and may contaminate groundwater.
12.5.	PBT and vPvB assessment results:	This substance does not meet the criteria for classification as PBT or vPvB.
12.6.	Other adversative effects:	None.

13. Disposal considerations

13.1.	Waste treatment methods:	Waste codes / waste designations according to EWC: 06 11 01
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14. Transport information

14.1.	UN number:	None.
14.2.	UN proper shipping (technical name if required):	N.a.
14.3.	Transport hazard class:	N. a.
14.4.	Packaging group:	N.a.

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14.5.	Hazard to environment:	None.
14.6.	Special precautions for user:	None.
14.7.	Bulk transport by MARPOL 73/78 Annex II and IBC Code:	N.a.
14.8.	Tunnel code:	N.a.
14.9.	Classification code:	N.a.
14.10.	Hazard label:	N.a.

15. Regulatory information

15.1.	Rules and regulations regarding health, safety, and environmental hazard specific to the substance or mixture:	This substance is not classified as hazardous according to regulation No 1272/2008 and 286/2011.
15.2.	Chemical safety assessment:	For this substance a chemical safety assessment is provided in Annex.

16. Other information

	Amendments made in the revised edition:	Safety data sheet amendment in all sections due to change of legislation.
	List of relevant R phrases, hazard statements, safety phrases and/or precautionary statements. Write out the full text of any statement which are not written out in full under Sections 2 to 15:	None.
	Training of personnel:	Training instructions on health and safety issues are available on www.eurogypsum.org
	Sources:	Regulation (ES) no. 1272/2008, Regulation (ES) no.453/2010, Regulation (ES) no.286/2011, Regulation (ES) no.1907/2006, UL RS no.102/2010, ZVZD – 1 UL RS no.43/2011
	A key or legend to abbreviation and acronyms used in the safety data sheet:	PBT – persistent, bioaccumulative, toxic chemical vPvB – very persistent and very bioaccumulative STOT – specific target organ toxicity DNEL – derived no effect level PNEC – predicted no effect concentration A – alveolar fraction STP – sewage treatment plant BW – body weight

Data specified above are based on research and experience of the supplier at the time of compiling the present MSDS. The supplier may not assume responsibility in case the buyer/user should fail to use the product in accordance with the relevant suggestions and recommendations. No information contained in the present SMDS may release the buyer/user from liability to strictly follow any legal requirements regarding his business activities.