

# Safety Data Sheet CASUL Bin 30 AB und Casul Bin 140 AB

# according to Regulation (EC) No 1907/2006

Creation date: 05.05.2017 Revision date: 05.05.2017 Revision No: 1,0 Print date: 09.05.2017

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

#### 1.1. Product identifier

CASUL Bin 30 AB und Casul Bin 140 AB

#### Further trade names

Ca 6 [Al(OH) 6 ] 2 (SO 4 ) 3 x 26 H 2 O, Ettringite (aqueous suspension with organic polymer-based binders) CASUL Bin 30 AB ® CASUL Bin 140 AB ®

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

#### Use of the substance/mixture

Coatings and paints, fillers, putties, thinners, building additive.

#### Uses advised against

Any non-intended use.

#### 1.3. Details of the supplier of the safety data sheet

Company name:	REMONDIS Production GmbH Geschäftsfeld CASUL			
Street:	Brunnenstraße 138			
Place:	D-44536 Lünen			
Telephone:	+49 (0) 2306-106-0	Telefax: +49 (0) 2306-106-228		
Responsible Department:	Dr. Gans-Eichler Chemieberatung GmbH Raesfeldstr. 22 D-48149 Münster	e-mail: info@tge-consult.de Tel.: +49 (0)251/924520-60 www.tge-consult.de		
1.4. Emergency telephone number:	Poison Center Berlin - phone: +49 (0) 30-30686 700			

#### **SECTION 2: Hazards identification**

# 2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

This mixture is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

#### 2.2. Label elements

# Additional advice on labelling

Labelling according to Regulation (EC) No. 1272/2008 [CLP]: none

#### 2.3. Other hazards

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII. No risks worthy of mention. Please observe the information on the safety data sheet at all times.

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

# 3.2. Mixtures

# Chemical characterization aqueous solution

# Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
12004-14-7	Hexacalcium hexaoxotris[sulphato(2-)]dialuminate(12-)			<100%
	234-448-5		01-2119589249-21	

Full text of H and EUH statements: see section 16.

# **Further Information**

Product does not contain listed SVHC substances > 0,1 % according to Regulation (EC) No. 1907/2006 Article 59 (REACH).

# **SECTION 4: First aid measures**

# 4.1. Description of first aid measures

# General information

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

# After inhalation

In case of accident by inhalation: remove casualty to fresh air and keep at rest. In case of respiratory tract irritation, consult a physician.

# After contact with skin

Gently wash with plenty of soap and water. In case of skin irritation, consult a physician.

#### After contact with eyes

Rinse cautiously with water for several minutes. In case of troubles or persistent symptoms, consult an ophthalmologist.

# After ingestion

Rinse mouth thoroughly with water. Let water be drunken in little sips (dilution effect). Do NOT induce vomiting. In all cases of doubt, or when symptoms persist, seek medical advice.

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

No information available.

#### **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

Carbon dioxide (CO2). Dry extinguishing powder. alcohol resistant foam. Atomized water.

# Unsuitable extinguishing media

High power water jet.

# 5.2. Special hazards arising from the substance or mixture

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx). Toxic gases/vapours

# 5.3. Advice for firefighters

In case of fire: Wear self-contained breathing apparatus.

# Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water. Co-ordinate fire-fighting measures to the fire surroundings.

# **SECTION 6: Accidental release measures**

# 6.1. Personal precautions, protective equipment and emergency procedures

Avoid contact with eyes and skin. Wear suitable protective clothing. Special danger of slipping by leaking/spilling product. See protective measures under point 7 and 8.

#### 6.2. Environmental precautions

Discharge into the environment must be avoided.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal. Clean contaminated objects and areas thoroughly observing environmental regulations.

#### 6.4. Reference to other sections

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

# **SECTION 7: Handling and storage**

#### 7.1. Precautions for safe handling

Advice on safe handling Wear suitable protective clothing. (See section 8.)

# Advice on protection against fire and explosion

Usual measures for fire prevention.

#### Further information on handling

General protection and hygiene measures: refer to chapter 8

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

#### Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

#### Advice on storage compatibility

Do not store together with: Explosives. Oxidizing solids. Oxidizing liquids. Radioactive substances. Infectious substances. Food and animal feedingstuff

#### Further information on storage conditions

Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. Recommended storage temperature: 20°C Protect against: Light. UV-radiation/sunlight. heat. moisture.

#### 7.3. Specific end use(s)

refer to chapter 1.

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

#### 8.1. Control parameters

#### **DNEL/DMEL values**

CAS No	Substance					
DNEL type		Exposure route	Effect	Value		
12004-14-7	Hexacalcium hexaoxotris[sulphato(2-)]dialuminate(12-)					
Worker , long-te	rm	inhalation	systemic	10 mg/m <sup>3</sup>		
Worker , acute		inhalation	systemic	10 mg/m <sup>3</sup>		
Worker , long-te	rm	inhalation	local	10 mg/m <sup>3</sup>		
Consumer , lon	g-term	inhalation	systemic	5 mg/m <sup>3</sup>		
Consumer, acu	te	inhalation	systemic	5 mg/m <sup>3</sup>		
Consumer , long-term		oral	systemic 15,2 mg/kg			
Consumer, acu	te	oral	systemic	114 mg/kg bw/day		
7778-18-9	7778-18-9 calcium sulfate					
Consumer , lon	g-term	oral	systemic	1,52 mg/kg		
Consumer , acu	te	oral	systemic	11,4 mg/kg		
Worker , long-te	rm	inhalation	systemic	21,17 mg/m <sup>3</sup>		
Worker , acute		inhalation	systemic	5082 mg/m <sup>3</sup>		
Consumer , long-term		inhalation	systemic	5,29 mg/m <sup>3</sup>		
Consumer, acute		inhalation	systemic	3811 mg/m <sup>3</sup>		

#### **PNEC** values

CAS No	Substance			
Environmental compartment Value				
12004-14-7 Hexacalcium hexaoxotris[sulphato(2-)]dialuminate(12-)				
Freshwater 0,0068 mg/l				
Marine water 0,00068 mg/l				
Micro-organisms in sewage treatment plants (STP) 61,3 mg/l		61,3 mg/l		
7778-18-9 calcium sulfate				
Micro-organisms in sewage treatment plants (STP) 100 mg/l				

# Additional advice on limit values

The biological and toxicological effects of dry CASUL are determined by the gypsum content. All previous tests, which allow comparability, show 100% matching results. In addition to the general dust limits, the OEL for calcium sulfate according to TRGS 900 is also included. However, CASUL ® comes in the delivery state as an aqueous suspension - for which there is no OEL.

#### 8.2. Exposure controls

# Appropriate engineering controls

No special measures are necessary.

# Protective and hygiene measures

Always close containers tightly after the removal of product. When using do not eat, drink, smoke, sniff. Wash hands before breaks and after work.

# Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible). DIN EN 166

#### Hand protection

In case of prolonged or frequently repeated skin contact: Wear suitable gloves. Suitable material: FKM (fluororubber). - Thickness of glove material: 0,4 mm Breakthrough time >= 8 h Butyl rubber. - Thickness of glove material: 0,5 mm Breakthrough time >= 8 h CR (polychloroprenes, Chloroprene rubber). - Thickness of glove material: 0,5 mm Breakthrough time >= 8 h NBR (Nitrile rubber). - Thickness of glove material: 0,35 mm Breakthrough time >= 8 h The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Before using check leak tightness / impermeability. In the case of wanting to use the gloves again, clean them before taking off and air them well.

#### Skin protection

Suitable protective clothing: Lab apron. Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500.

#### **Respiratory protection**

With correct and proper use, and under normal conditions, breathing protection is not required. Respiratory protection necessary at: exceeding exposure limit values Generation/formation of dust Suitable respiratory protection apparatus: Particle filter device (DIN EN 143) - Type: P1-3 The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used! Use only respiratory protection equipment with CE-symbol including four digit test number. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

# **Environmental exposure controls**

No special precautionary measures are necessary.

#### **SECTION 9: Physical and chemical properties**

Colour:         white           Odour:         characteristic           Test method           pH-Value (at 20 °C):         ~11           Changes in the physical         <0 °C           Melling point:         <0 °C           Initial boiling point and boiling range:         >=100 °C           Sublimation point:         not determined           Softening point:         not determined           Pour point:         not determined           Sublimation point:         Not sustaining combustion           Payles on the physical         not determined           Sustaining combustion:         Not sustaining combustion           Explosive            non	9.1. Information on basic physical and che Physical state:	mical properties liquid,Suspension	
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Test method           pH-Value (at 20 °C):         ~11           Changes in the physical         <0 °C			
pH-Value (at 20 °C):       ~11         Changes in the physical       <0 °C         Melting point:       <0 °C         Initial boiling point and boiling range:       >=100 °C         Sublimation point:       not determined         Softening point:       not determined         Pour point:       not determined         Pour point:       not determined         Sublimation point:       not determined         Subination goombustion:       Not sustaining combustion         Explosive          non          Lower explosion limits:       not determined         Upper explosion limits:       not determined         Densory       >100 /850 °C         OXIdizing properties       >100 /850 °C         non        0.62 g/L         Vater solubility:       0.62 g/L       0.62 g/L         Vater solubility:       0.62 g/L       0.62 g/L         Vation coefficient:       not       0.62 g/L         Partition coefficient: <th></th> <th></th> <th>Test method</th>			Test method
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Partition coefficient:     not       Viscosity / dynamic:     not determined			
Viscosity / dynamic: not determined			
	Partition coefficient:	not	
Viscosity / kinematic: not determined	Viscosity / dynamic:	not determined	
	Viscosity / kinematic:	not determined	

Flow time:	not
Vapour density:	not
Evaporation rate:	not
Solvent separation test:	not
Solvent content:	not
9.2. Other information	
Solid content:	not determined

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

No information available.

# 10.2. Chemical stability

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

#### 10.3. Possibility of hazardous reactions

No information available.

#### 10.4. Conditions to avoid

Protect against: UV-radiation/sunlight. heat.

#### 10.5. Incompatible materials

Materials to avoid: Oxidizing agents, strong. Reducing agents, strong.

# 10.6. Hazardous decomposition products

Can be released in case of fire: Carbon monoxide Carbon dioxide (CO2). Nitrogen oxides (NOx). Toxic gases/vapours

# **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

# Toxicocinetics, metabolism and distribution

No data available.

#### Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name						
	Exposure route	Dose		Species	Source		
12004-14-7	Hexacalcium hexaoxotris[sulphato(2-)]dialuminate(12-)						
	oral	LD50	>2000 mg/kg	Rat.	ECHA Dossier		
	dermal	LD50	>2000 mg/kg	Rat.	ECHA Dossier		
	inhalative (4 h) aerosol	LC50	>3,26 mg/l	Rat.	ECHA Dossier		

# Irritation and corrosivity

Based on available data, the classification criteria are not met.

#### Sensitising effects

Based on available data, the classification criteria are not met.

# Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met. Hexacalcium hexaoxotris[sulphato(2-)]dialuminate(12-): Reproductive toxicity: Method: OECD 422. Species: Rat. Exposure duration: 4 d. Results: NOAEL 790 mg/Kg bw/day

# STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

# Aspiration hazard

Based on available data, the classification criteria are not met.

# Specific effects in experiment on an animal

No data available.

# **SECTION 12: Ecological information**

#### 12.1. Toxicity

The product has not been tested.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h]   [d]	Species	Source	
12004-14-7	Hexacalcium hexaoxotris[sulphato(2-)]dialuminate(12-)						
	Acute fish toxicity	LC50	>83 mg/l		Brachydanio rerio (zebra-fish)	ECHA Dossier	
	Acute algae toxicity	ErC50	4,8 mg/l	72 h	Desmodesmus subspicatus	ECHA Dossier	
	Acute crustacea toxicity	EC50	6,8 mg/l	48 h	Daphnia magna	ECHA Dossier	
	Acute bacteria toxicity	(>100 m	g/l)	3 h	Activated sludge	ECHA Dossier	

# 12.2. Persistence and degradability

Hydrolyses to form water-insoluble compounds. The product has not been tested.

# 12.3. Bioaccumulative potential

Hydrolyses to form water-insoluble compounds. No indication of bioaccumulation potential.

#### 12.4. Mobility in soil

No data available.

#### 12.5. Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB.

#### 12.6. Other adverse effects

No data available.

#### Further information

Do not allow to enter into surface water or drains.

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

#### Advice on disposal

Observe in addition any national regulations! Consult the local waste disposal expert about waste disposal. Non-contaminated packages may be recycled. According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process. Control report for waste code/ waste marking according to EAKV: Waste disposal number of waste from residues/unused products WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused 160304 products; inorganic wastes other than those mentioned in 16 03 03 Waste disposal number of used product WASTES NOT OTHERWISE SPECIFIED IN THE LIST; off-specification batches and unused 160304 products; inorganic wastes other than those mentioned in 16 03 03 Waste disposal number of contaminated packaging 150106 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND

# PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging

#### Contaminated packaging

Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**

# Land transport (ADR/RID)

14.1. UN number:

No dangerous good in sense of this transport regulation.

# 14.2. UN proper shipping name: 14.3. Transport hazard class(es):

# 14.4. Packing group:

#### Inland waterways transport (ADN)

14.1. UN number:14.2. UN proper shipping name:14.3. Transport hazard class(es):14.4. Packing group:

# Marine transport (IMDG)

 14.1. UN number:

 14.2. UN proper shipping name:

 14.3. Transport hazard class(es):

 14.4. Packing group:

 Marine pollutant:

#### Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: 14.2. UN proper shipping name: 14.3. Transport hazard class(es): 14.4. Packing group:

# 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

# **14.6. Special precautions for user** refer to chapter 6-8

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code not relevant

# **SECTION 15: Regulatory information**

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

# EU regulatory information

2010/75/EU (VOC): 2004/42/EC (VOC): Information according to 2012/18/EU (SEVESO III):

Additional information

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP]. REACH 1907/2006 Appendix XVII: not relevant

# National regulatory information

Water contaminating class (D):

1 - slightly water contaminating

No information available.

No information available.

Not subject to 2012/18/EU (SEVESO III)

#### 15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:

# **SECTION 16: Other information**

# Changes

Rev. 1.0; 05.05.2017 Initial release.

# Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route AwSV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen CAS Chemical Abstracts Service DNEL: Derived No Effect Level IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) Safety Data Sheet//according to Regulation (EC) No 1907/2006//Print date: 09.05.2017

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no

ICAO: International Civil Aviation Organization ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO) GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) LOAEL: Lowest observed adverse effect level LOAEC: Lowest observed adverse effect concentration LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent NOAEL: No observed adverse effect level NOAEC: No observed adverse effect level NTP: National Toxicology Program N/A: not applicable OSHA: Occupational Safety and Health Administration PNEC: predicted no effect concentration PBT: Persistent bioaccumulative toxic RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail ) SARA: Superfund Amendments and Reauthorization Act SVHC: substance of very high concern TRGS Technische Regeln für Gefahrstoffe TSCA: Toxic Substances Control Act VOC: Volatile Organic Compounds WGK: Wassergefährdungsklasse

# Further Information

Classification according EC regulation 1272/2008 (CLP): - Classification procedure: Health hazards: Calculation method. Environmental hazards: Calculation method. Physical hazards: On basis of test data. and / or calculated and / or estimated.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)