

# Safety Data Sheet



according to Regulation (EC) No 1907/2006 (REACH) and  
Regulation (EU) 2015/830

Trade name: *airdry CUP GREEN*  
Version: *19.04.1*  
Revision date: *12.04.2019*  
Print date: *12.04.2019*

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

### 1.1 Product identifier

Trade name / designation:

*airdry CUP GREEN*

Index No.:

*Not applicable*

EC No.:

*Not applicable*

CAS No.:

*Not applicable*

REACH No.:

*Not applicable*

Other means of identification:

*Not applicable*

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

Relevant identified uses:

*Desiccant, Dehumidifier*

Uses advised against:

*Not intended use*

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

Name:

*ThoMar OHG*

Address:

*Basedower Weg 10, DE - 21483 Lüttau*

Information contact:

Phone:

*+49(0)4153-55900-00*

Fax:

*+49(0)4153-55900-99*

E-Mail:

*sds@thomar.de*

### 1.4 Emergency Telephone Number

Phone:

*+49(0)4153-55900-50*

Office hours:

*Monday - Thursday: 08:00-17:00 / Friday: 08:00-16:00*

Language:

*German, English*

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

*Eye Irrit. 2 H319; Skin Sens.1 H317; Aquatic Chronic 3 H412*

### 2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

*GHS07*

[CLP/GHS]:

Hazard pictograms:



Signal word:

*Attention*

Hazard components for labeling:

*Calcium Chloride*

*1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphthyl)ethan-1-one*

*D-Limonene*

Hazard statements:

*H319 Causes serious eye irritation*

*H317 May cause serious eye irritation.*

*H412 Harmful to aquatic life with long lasting effects.*

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Precautionary statements: *P305+P351+P338: IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.*  
*P302+P352: IF ON SKIN: Wash with plenty of water.*  
*P102: Keep out of reach of children.*

Additional labelling:

## 2.3 Other hazards

Information on whether the substance or mixture meets the criteria for PBT or vPvB

PBT: *Not applicable*  
vPvB: *Not applicable*

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Substance name: *Not applicable*  
CAS No.: *Not applicable*  
REACH No.: *Not applicable*  
Hazard impurities: *Not applicable*

### 3.2 Mixtures

Hazardous ingredients: *Calcium chloride anhydrous*  
Content ration: *>50%*  
CAS No.: *10043-52-4*  
REACH No.: *01-2119494219-28-xxxx*  
Classification according to Regulation (EC) No 1272/2008 [CLP]: *Eye Irrit. 2; H319*

Hazardous ingredients: *1-(1,2,3,4,5,6,7,8-octahydro-2,3,8,8-tetramethyl-2-naphathyl)ethan-1-one*  
Content ration: *1-5%*  
CAS No.: *54464-57-2*  
REACH No.: *Not applicable*  
Classification according to Regulation (EC) No 1272/2008 [CLP]: *Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1, H317*

Hazardous ingredients: *D-Limonene*  
Content ration: *<1%*  
CAS No.: *5989-27-5*  
REACH No.: *Not applicable*  
Classification according to Regulation (EC) No 1272/2008 [CLP]: *Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1B, H317*

Hazardous ingredients: *2-tert-butylcyclohexyl acetate*

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Content ration: *<1%*  
CAS No.: *88-41-5*  
REACH No.: *Not applicable*  
Classification according to Regulation (EC) No 1272/2008 [CLP]: *Aquatic Chronic 2, H411*

Hazardous ingredients: *1,b,2,2,3-pentamethylcyclopent-3-ene-1-butanol*  
Content ration: *<1%*  
CAS No.: *65113-99-7*  
REACH No.: *Not applicable*  
Classification according to Regulation (EC) No 1272/2008 [CLP]: *Aquatic Chronic 2, H411*

*For the wording of the listed hazard warnings refer to section 16.*

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Following inhalation: *Supply fresh air; consult a doctor in case of pain.*  
Following skin contact: *Wash skin immediately with soap and water. Get medical attention if any discomfort continues*  
Following eye contact: *Rinse opened eye. Get medical attention if any discomfort continues.*  
Following ingestion: *Rinse mouth with water, do not swallow, drink plenty of water (maximum of 2 glasses). Immediately consult a doctor.*

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

*Could cause irritant effects to the skin and mucous membrane. May cause GI tract irritation if higher quantities are ingested.*

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

*No further information available.*

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: *According to surrounding fire.*  
Unsuitable extinguishing media: *No further information available.*

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

*Release of hydrogen chloride (HCl) possible.*

### 5.3 Advice for fire-fighters

*No further information available.*

## SECTION 6: Accidental release measures

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## 6.1 Personal precautions, protective equipment and emergency procedures

*Avoid formation of dust, do not inhale dust, avoid substance contact, ensure sufficient ventilation*

## 6.2 Environmental precautions

*Usual care in handling*

## 6.3 Methods and material for containment and cleaning up

*Pick up mechanically. Avoid any dust formation.*

## 6.4 Reference to other sections

*See section 7 for safe handling information.  
See section 8 for information about personal protective equipment.  
See section 13 for disposal information.*

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Fire preventions: *No particular measures are necessary when used properly.*  
Aerosol and dust generation preventions: *Do not open/destroy the product*  
Environmental precautions: *No particular measures are necessary when used properly.*  
Advice on general occupational hygiene: *No particular measures are necessary when used properly.*

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

Technical measures and storage conditions: *Store in dry condition*  
Requirements for storage rooms and vessels: *Store in closed containers, this product is hygroscopic*  
Storage class: *10-13*

### Specific end uses

industry- or sector-specific guidance : *No further information available.*

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limits and biological limit values: *The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.*

### 8.2 Exposure controls

Appropriate engineering controls: *No further information available.*  
Personal protective equipment:  
Eye / Face protection: *Avoid skin contact, use eye protector if necessary.*  
Skin protection: *Avoid skin contact, use protective gloves if necessary.*  
Respiratory protection: *Avoid generation of dusts, use dust mask if necessary.*  
Thermal hazards: *Not necessary*

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Environmental exposure controls: *Not necessary*

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance (Form/Colour): *Granulate, whitish*  
Odour: *Odourless*  
Odour threshold: *Not determined*  
pH-value at 20 °C: *8-10 in aqueous solution*  
Melting point/freezing point: *ca. 770°C/Not determined*  
Boiling point/Boiling range: *>999°C*  
Flash point: *Not applicable*  
Evaporation rate: *Not applicable*  
Flammability (solid, gaseous): *Not determined*  
Upper/lower flammability or explosive limits: *Not determined*  
Vapour pressure: *Not applicable*  
Vapour density: *Not applicable*  
Relative density: *Not determined*  
Solubility(ies): *Soluble*  
Partition coefficient: *Not determined*  
n-octanol/water: *Not determined*  
Auto-ignition temperature: *Not determined*  
Decomposition temperature: *Not determined*  
Viscosity: *Not applicable*  
Explosive properties: *Not determined*  
Oxidising properties: *Contains salt , avoid contact in the case of sensitive surfaces*

### 9.2 Other information

*No further information available.*

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

*No further information available.*

### 10.2 Chemical stability

*No decomposition if used according to specifications.*

### 10.3 Possibility of hazardous reactions

*No further information available.*

### 10.4 Conditions to avoid

*No further information available.*

### 10.5 Incompatible materials

*No further information available.*

### 10.6 Hazardous decomposition products

*None if instructions for storage and handling are followed*

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## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity: *No further information available.*  
Skin corrosion/irritation: *No further information available.*  
Eye damage/irritation: *Causes serious eye irritation*  
Sensitisation to the respiratory tract/skin: *No further information available.*  
Germ cell mutagenicity: *No further information available.*  
Carcinogenicity: *No further information available.*  
Reproductive toxicity: *No further information available.*  
Specific target organ toxicity (single exposure): *No further information available.*  
Specific target organ toxicity (repeated exposure): *No further information available.*  
Irritation to respiratory tract: *No further information available.*  
Symptoms related to the physical, chemical and toxicological characteristics: *No further information available.*

## SECTION 12: Ecological information

### 12.1 Toxicity

*No further information available.*

### 12.2 Persistence and degradability

*No further information available.*

### 12.3 Bioaccumulative potential

*No further information available.*

### 12.4 Mobility in soil

*No further information available.*

### 12.5 Results of PBT and vPvB assessment

PBT: *Not applicable*

vPvB: *Not applicable*

### 12.6 Other adverse effects

*No further information available.*

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product / Packaging disposal: *Must be recycled or disposed of according to the regulations.*

Waste codes / waste designations according to EWC / AVV: *06 00 00 WASTES FROM INORGANIC CHEMICAL PROCESSES*

Waste treatment options: *No further information available.*

Other disposal recommendations: *No further information available.*

## SECTION 14: Transport information

### 14.1 UN No.

*Void*

### 14.2 UN Proper shipping name

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ADR/RID: *Not classified*  
IMDG-Code / ICAO-TI / IATA-DGR: *Not classified*

#### 14.3 Transport hazard class(es)

*Not classified*

#### 14.4 Packing group

*Not relevant.*

#### 14.5 Environmental hazards

Hazard label(s): *None*

#### 14.6 Special precautions for user

*None*

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

*Not applicable*

### SECTION 15: Regulatory information

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

##### EU regulations

*Not applicable*

##### National regulations

Water hazard class: *Class 1 according AwSV attachment 1 (German regulation)*

#### 15.2 Chemical Safety Assessment:

*A Chemical Safety Assessment has not been carried out*

### SECTION 16: Other information

#### 16.1 Indication of changes

*marked with an asterisk*

#### 16.2 Abbreviations and acronyms:

ADR *European Agreement concerning the International Carriage of  
Dangerous Goods by Road*  
CAS *Chemical Abstracts Service (division of the American Chemical  
Society)*  
CLP *Classification, Labelling and Packaging of Chemicals*  
IATA-DGR *International Air Transport Association*  
IBC-Code *International Code for the Construction and Equipment of Ships  
carrying Dangerous Chemicals in Bulk*  
ICAO-TI *Technical Instructions For The Safe Transport of Dangerous  
Goods by Air*  
IMDG *International Maritime Code for Dangerous Goods*  
LC50 *Lethal concentration, 50 percent*  
LD50 *Lethal dose, 50 percent*

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MARPOL *International Convention for the Prevention of Pollution from Ships*  
PBT/vPvB *Persistent, bioaccumulative and toxic /very persistent and very bioaccumulative*  
RID *Regulations Concerning the International Transport of Dangerous Goods by Rail*  
GisChem *<https://ssl.gischem.de/gemischrechner/index.htm>*

## 16.3 Key literature references and sources for data

*GisChem, Vendor data sheet*

## 16.4 Classification for mixtures and used evaluation method according to regulation (EC)

*GisChem, Vendor data sheet*

## 16.5 Relevant R-, H- and EUH-phrases (number and full text)

*H226 Flammable liquid and vapour*  
*H304 May be fatal if swallowed and enters airways.*  
*H315 Causes skin irritation.*  
*H317 May cause an allergic skin reaction.*  
*H319 Causes serious eye irritation*  
*H400 Very toxic to aquatic life.*  
*H410 Very toxic to aquatic life with long lasting effects.*  
*H411 Toxic to aquatic life with long lasting effects.*

## 16.6 Training advice

*Not intended*

## 16.7 Further information

*None*

## \*ANNEX: Exposure Scenario

### Exposure scenario – Formulation and/or distribution of calcium chloride (ES3)

#### ES3 Section 1 - Exposure Scenario Title

Title *Formulation and/or distribution of Calcium Chloride;  
CAS:10043-52-4*

Use Descriptor *Sector of Use: Industrial SU10 (SU1, SU2, SU3, SU4, SU5, SU6b, SU8, SU11, SU12, SU13, SU14, SU15, SU19, SU20, SU0- C23.5/ C23.6)*  
*Process Categories: PROC1, PROC2, PROC3, PROC5, PROC 6, PROC8a, PROC8b, PROC9, PROC14, PROC15*  
*Environmental Release Categories: ERC2*



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Processes, tasks, activities covered *Formulation and distribution, packing and re-packing (including drums and small packs) of the Calcium Chloride and its mixtures in batch or continuous operations, including storage, materials transfers, mixing, large and small scale packing, loading (including marine vessel/barge, rail/road car and IBC loading), maintenance and associated laboratory activities. e.g. production of adsorbents, cosmetics, metals, fertilizers, plant protection, cement, haemodialysis solution and general distributor activities with Calcium Chloride*

## ES3 Section 2 - Operational conditions and risk management measures

*Field for additional statements to explain scenario if required.*

### ES3 Section 2.1 - Control of worker exposure

#### Product characteristics

Physical form of product *Solid, medium dustiness [OC2]*

Concentration of substance in product *Covers percentage substance in the product up to 100 % (unless stated differently) [G13].*

Amounts used *Not applicable*

Frequency and duration of use *Covers daily exposures up to 8 hours (unless stated differently) [G2]*

Human factors not influenced by risk management *Not applicable*

Other Operational Conditions affecting worker exposure *Assumes use at not more than 20°C above ambient temperature, unless stated differently [G15]. Assumes a good basic standard of occupational hygiene is implemented [G1]*

Contributing Scenarios *Risk Management Measures  
Note: list RMM standard phrases according to the control hierarchy indicated in the ECHA template: 1. Technical measures to prevent release, 2. Technical measures to prevent dispersion, 3. Organisational measures, 4. Personal protection.*

General measures (irritants) [G19] *Avoid all skin contact with product, clean up contamination/spills as soon as they occur. Wear gloves (tested to EN374) if hand contamination likely, wash off any skin contamination immediately. Provide basic employee training to prevent / minimise exposures and to report any skin problems that may develop [E3]. Use suitable eye protection [PPE26].*

General exposures [CS1]  
Continuous process [CS54] *No specific measures identified [E118].*

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General exposures [CS1] Continuous process [CS54] With sample collection [CS56]	<i>No specific measures identified [E118].</i>
General exposures [CS1] Use in contained batch processes [CS37] Mixing operations (open systems) [CS30]	<i>No specific measures identified [E118].</i>  <i>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) [E11], or: Wear a respirator conforming to EN140 with Type A/P2 filter or better [PPE29].</i>
Calendering (including Banburys) [CS64]	<i>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) [E11], or: Wear a respirator conforming to EN140 with Type A/P2 filter or better [PPE29].</i>
Bulk open loading and unloading [CS503] Non-dedicated facility [CS82]	<i>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) [E11], or: Wear a respirator conforming to EN140 with Type A/P2 filter or better [PPE29].</i>
Bulk closed loading and unloading [CS501] Dedicated facility [CS81]	<i>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) [E11], or: Wear a respirator conforming to EN140 with Type A/P2 filter or better [PPE29].</i>
Drum/batch transfers [CS8] Transport [CS58]	<i>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) [E11], or: Wear a respirator conforming to EN140 with Type A/P2 filter or better [PPE29].</i>
Tabletting, compression, extrusion or pelletisation [CS506]	<i>No specific measures identified [E118].</i>
Laboratory activities [CS36]	<i>No specific measures identified [E118].</i>
Process sampling [CS2] Dedicated facility [CS81]	<i>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) [E11], or: Wear a respirator conforming to EN140 with Type A/P2 filter or better [PPE29].</i>
Process sampling [CS2] Non-dedicated facility [CS82]	<i>Avoid carrying out operation for more than 1 hour [OC11].</i>
Equipment cleaning and maintenance [CS39] Non-dedicated facility [CS82]	<i>Drain or remove substance from equipment prior to break-in or maintenance [E81], or: Wear a respirator conforming to EN140 with Type A/P2 filter or better [PPE29].</i>
Storage [CS67] General exposures (closed systems) [CS15]	<i>No specific measures identified [E118].</i>

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Storage [CS67] *No specific measures identified [E118].*  
General exposures (closed systems) [CS15]  
With sample collection [CS56]

## Exposure scenario – Use of calcium chloride as processing aid (ES4)

### ES4 Section 1 - Exposure Scenario Title

Title *Use of Calcium Chloride as processing aid; CAS: 10043-52-4*

Use Descriptor *Sector of Use: Industrial SU3 (SU1, SU2a, SU2b, SU4, SU5, SU6b, SU8, SU9, SU10, SU11, SU12, SU13, SU14, SU15, SU16, SU17)  
Process Categories: PROC1, PROC2, PROC3, PROC4, PROC6, PROC7, PROC8a, PROC8b, PROC9, PROC10, PROC13, PROC15, PROC22a, PROC22b, PROC22c, PROC23a, PROC23b, PROC23c  
Environmental Release Categories: ERC 4*

Processes, tasks, activities covered *Use of Calcium Chloride as processing aid. Use as a process chemical or extraction agent. Includes recycling/ recovery, material transfers, storage, maintenance and loading (including marine vessel/barge, road/rail car and bulk container), sampling and associated laboratory activities. E.g. functions as adsorbent, coagulant, emulsion breaker, alginates, extraction agent, completion fluid, heat transfer fluid, water treatment chemical or use within the paper industry for example as antistatic*

### ES4 Section 2 - Operational conditions and risk management

*Field for additional statements to explain scenario if required.*

#### ES4 Section 2.1 - Control of worker exposure

##### Product characteristics

Physical form of product *Solid, medium dustiness [OC2]*

Concentration of substance in product *Covers percentage substance in the product up to 100 % (unless stated differently) [G13].*

Amounts used *Not applicable*

Frequency and duration of use *Covers daily exposures up to 8 hours (unless stated differently) [G2]*

Human factors not influenced by risk management *Not applicable*

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Other Operational Conditions affecting worker exposure	<i>Assumes use at not more than 20°C above ambient temperature, unless stated differently [G15].; Assumes a good basic standard of occupational hygiene is implemented [G1].</i>
Contributing Scenarios	<u><i>Risk Management Measures</i></u> <i>Note: list RMM standard phrases according to the control hierarchy indicated in the ECHA template: 1. Technical measures to prevent release, 2. Technical measures to prevent dispersion, 3. Organisational measures, 4. Personal protection.</i>
General measures (irritants) [G19]	<i>Avoid all skin contact with product, clean up contamination/spills as soon as they occur. Wear gloves (tested to EN374) if hand contamination likely, wash off any skin contamination immediately. Provide basic employee training to prevent/minimise exposures and to report any skin problems that may develop [E3]. Use suitable eye protection [PPE26].</i>
General exposures [CS1] Continuous process [CS54]	<i>No specific measures identified [E118].</i>
General exposures [CS1] Continuous process [CS54] With sample collection [CS56]	<i>No specific measures identified [E118].</i>
General exposures [CS1] Use in contained batch processes [CS37]	<i>No specific measures identified [E118].</i>
General exposures (open systems) [CS16] Batch process [CS55] With sample collection [CS56] Filling/preparation of equipment from drums or containers [CS45]	<i>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) [E11], or: Wear a respirator conforming to EN140 with Type A/P2 filter or better [PPE29].</i>
Calendaring (including Banburys) [CS64]	<i>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) [E11], or: Wear a respirator conforming to EN140 with Type A/P2 filter or better [PPE29].</i>
Spraying [CS10]	<i>Minimise exposure by partial enclosure of the operation or equipment and provide extract ventilation at openings [E60], or: Wear a respirator conforming to EN140 with Type A/P2 filter or better [PPE29].</i>
Bulk open loading and unloading [CS503] Non-dedicated facility [CS82]	<i>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) [E11], or: Wear a respirator conforming to EN140 with Type A/P2 filter or better [PPE29].</i>

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Bulk closed loading and unloading [CS501] Dedicated facility [CS81]	<i>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) [E11], or: Wear a respirator conforming to EN140 with Type A/P2 filter or better [PPE29].</i>
Drum/batch transfers [CS8] Transport [CS58]	<i>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) [E11], or: Wear a respirator conforming to EN140 with Type A/P2 filter or better [PPE29].</i>
Rolling, Brushing [CS51]	<i>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) [E11], or: Wear a respirator conforming to EN140 with Type A/P2 filter or better [PPE29].</i>
Dipping, immersion and pouring [CS4]	<i>No specific measures identified [E118].</i>
Laboratory activities [CS36]	<i>No specific measures identified [E118].</i>
Equipment cleaning and maintenance [CS39] Non-dedicated facility [CS82]	<i>Drain or remove substance from equipment prior to break-in or maintenance [E81], or: Wear a respirator conforming to EN140 with Type A/P2 filter or better [PPE29].</i>
Process sampling [CS2] Dedicated facility [CS81]	<i>Provide a good standard of general ventilation (not less than 3 to 5 air changes per hour) [E11], or: Wear a respirator conforming to EN140 with Type A/P2 filter or better [PPE29].</i>
Process sampling [CS2] Non-dedicated facility [CS82]	<i>Avoid carrying out operation for more than 4 hours [OC12].</i>
General exposures (closed systems) [CS15] Elevated temperature [CS111] Process temperature $\leq$ melting point Calcium Chloride	<i>No specific measures identified [E118].</i>
General exposures (closed systems) [CS15] Elevated temperature [CS111] Process temperature $>$ melting point Calcium Chloride	<i>No specific measures identified [E118].</i>
Material transfers [CS3] (open systems) [CS108] Batch processes at elevated temperatures [CS136] Process temperature $\leq$ melting point Calcium Chloride	<i>No specific measures identified [E118].</i>
Material transfers [CS3] (open systems) [CS108] Batch processes at elevated temperatures [CS136] Process temperature $>$ melting point Calcium Chloride	<i>Provide a good standard of controlled ventilation (10 to 15 air changes per hour) [E40], or: Wear a respirator conforming to EN140 with Type A/P2 filter or better [PPE29].</i>
Storage [CS67] General exposures (closed systems) [CS15]	<i>No specific measures identified [E118].</i>

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according to Regulation (EC) No 1907/2006 (REACH) and  
Regulation (EU) 2015/830

Trade name: *airdry CUP GREEN*  
Version: *19.04.1*  
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Storage [CS67] *No specific measures identified [E118].*  
General exposures (closed systems) [CS15]  
With sample collection [CS56]

## Exposure scenario – Use of calcium chloride by consumers (ES10)

### ES10 Section 1 - Exposure Scenario Title

Title *Consumer use of Calcium Chloride and Calcium Chloride containing products*  
Sector of use *SU21*  
Product Category *PC2, PC4, PC 5, PC12, PC16, PC 27, PC35, PC37, PC0- UCN code K35100*  
Environmental Release Category *ERC8a, ERC8d*  
Processes, tasks, activities covered

### ES10 Section 2 - Operational conditions (OC) and risk

*Field for additional statements to explain scenario if required*

#### ES10 Section 2.1 Control of consumer exposure

Physical form of product  
Concentration of substance in product *Covers concentrations up to 100%. [ConsOC1]*  
*Additional sub-headers to Product characteristic as required. Standard phrases linked to each sub-header*  
Amounts used *For each use event, covers use amounts up to 50 kg unless stated differently. [ConsOC2]*  
Frequency and duration of use *Covers use up to 365 days/year, unless stated differently [ConsOC3]; Covers exposure up to 24 hours/event, unless stated differently [ConsOC14].*  
Human factors not influenced by risk management *Inhalation rate up to 32,9 m3/day (Justification; Default ConsExpo light exercise- 60 kg. Average bw women, is reasonable worst case)*

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Other Operational Conditions affecting worker exposure

*Covers use at ambient temperatures. [ConsOC15]; Room volume of 1 m<sup>3</sup> 'Room volume' is interpreted here as personal space: a small area of 1 m<sup>3</sup> around the use. Minimum 0,6 Air Exchange Rate (1/hr) Justification; equals to indoor typical (ConsExpo General Factsheet (RIVM report 320104002/2006)-unspecified room). Covers use with a release area up to 125 m<sup>2</sup>, unless stated differently. "Do not touch eyes when using this product".*

## Chemical Product Categories

PC2 (adsorbents) CaCl <sub>2</sub> used as domestic dehumidifier	<i>OC = No specific operation conditions identified RMM = No specific measures identified Justification: Reasonable worst-case estimate non-spraying activities</i>
PC4 (antifreeze + deicing) CaCl <sub>2</sub> used for deicing and antifreeze	<i>OC = No specific operation conditions identified RMM = No specific measures identified Justification: Reasonable worst-case estimate non-spraying activities</i>
PC9b (Fillers, putties, plasters modelling clay) Calcium Chloride used in modelling clay	<i>OC = No specific operation conditions identified RMM = No specific measures identified Justification: Reasonable worst-case estimate non-spraying activities</i>
PC12 (fertilizers) Calcium Chloride in domestic fertilizers	<i>OC = No specific operation conditions identified RMM = No specific measures identified Justification: Reasonable worst-case estimate non-spraying activities</i>
PC16 (Heat transfer fluids) Calcium Chloride as energy source in selfheating-cup	<i>OC = No specific operation conditions identified RMM = No specific measures identified Justification: Reasonable worst-case estimate non-spraying activities</i>
PC27 (plant protection) Calcium Chloride in plant protection formulations <u>for Non-spraying activities</u>	<i>OC = No specific operation conditions identified RMM = No specific measures identified Justification: Reasonable worst-case estimate non-spraying activities</i>
PC27 (plant protection) Calcium Chloride in plant protection formulations <u>for Spraying activities</u>	<i>OC = Spraying- Covers concentration up to saturation (45%) [ConsOC1]; Covers spray duration up too 10 minutes/event. Covers use in room of 58m<sup>3</sup> with room height of 2,5m. Justification; default Consexpo-Pestcontrol&gt;&gt;surface spraying RMM = Spray away from person Justification: Reasonable worst case estimate spraying</i>



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PC35 (washing and cleaning products) Calcium Chloride  
containing washing and cleaning products for Non-Spraying  
activities

*OC = No specific operation conditions identified*  
*RMM = No specific measures identified*  
*Justification: Reasonable worst-case estimate non-spraying*  
*activities*

PC35 (washing and cleaning products) Calcium Chloride  
containing washing and cleaning products for Spraying  
activities

*OC = Spraying - Covers concentration up to saturation (45%)*  
*[ConsOC1]; Covers spray duration up too 10 minutes/event.*  
*Covers use in room of 58m3 with room height of 2,5m.*  
*Justification; default Consexpo-Pestcontrol>>surface spraying*  
*RMM = Spray away from person*  
*Justification: Reasonable worst case estimate spraying*

PC37 (water treatment chemicals) Calcium Chloride used as  
water treatment chemical e.g. in aquaria

*OC = No specific operation conditions identified*  
*RMM = No specific measures identified*  
*Justification: Reasonable worst-case estimate non-spraying*  
*activities*

PC0- UCN code K35100 (Cement/concrete/mortar) Calcium  
Chloride in Cement/concrete/mortar

*OC = No specific operation conditions identified*  
*RMM = No specific measures identified*  
*Justification: Reasonable worst-case estimate non-spraying*  
*activities*