

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 Date of issue: 7/14/2015 Revision date: 9/9/2019 Supersedes: 5/9/2019 Version: 1.5

| SECTION 1: Identification of the subs | stance/mixture and of the company/undertaking |
|---|--|
| 1.1. Product identifier | |
| Product form | : Substance |
| Trade name | : Calcium chloride 77% |
| EC Index-No. | : 017-013-00-2 |
| EC-No. | : 233-140-8 |
| CAS-No. | : 10035-04-8 |
| REACH registration No | : 01-2119494219-28 |
| Product code | : 15303 |
| Type of product | : Pure substance, Hygroscopic substance. Preventive measures apply to the substance in dry state only |
| Formula | : CaCl2.2H2O |
| 1.2. Relevant identified uses of the substa | ance or mixture and uses advised against |
| | |
| 1.2.1. Relevant identified uses | : Industrial use.Professional use |
| Main use category | |
| Use of the substance/mixture | : Cement: additive; Anti-dusting agent; Road salt |
| 1.2.2. Uses advised against | |
| No additional information available | |
| 1.3. Details of the supplier of the safety d Breustedt Chemie B.V. IJsseldijk 28 | ata sheet |
| 7325 WZ Apeldoorn - Nederland T 055-5332844 | |
| productinfo@breustedt.nl - www.breustedt.nl | |
| 1.4. Emergency telephone number Emergency number | : +31(0)30-2748888 Nationaal Vergiftigingen Informatie Centrum (NVIC) |
| | (uitsluitend bestemd om artsen te informeren bij accidentele vergiftigingen) |
| | |
| | |
| SECTION 2: Hazards identification | |
| SECTION 2: Hazards identification 2.1. Classification of the substance or mit | xture |
| | |
| 2.1. Classification of the substance or mit Classification according to Regulation (EC) No | |
| 2.1. Classification of the substance or mi | o. 1272/2008 [CLP] |
| 2.1. Classification of the substance or mix Classification according to Regulation (EC) No Serious eye damage/eye irritation, Category 2 | o. 1272/2008 [CLP] |
| 2.1. Classification of the substance or mit Classification according to Regulation (EC) No Serious eye damage/eye irritation, Category 2 Full text of H statements : see section 16 Adverse physicochemical, human health and e | b. 1272/2008 [CLP] Н319 |
| 2.1. Classification of the substance or mit Classification according to Regulation (EC) No Serious eye damage/eye irritation, Category 2 Full text of H statements : see section 16 Adverse physicochemical, human health and e Causes serious eye irritation. | b. 1272/2008 [CLP] Н319 |
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| SECTION 3: Composition/information on ingredients | | |
|---|----------------------------------|-----|
| 3.1. Substances | | |
| Name | : Calcium chloride 77% TG flakes | |
| CAS-No. | : 10035-04-8 | |
| EC-No. | : 233-140-8 | |
| 9/9/2019 (Version: 1.5) | EN (English) | 1/8 |

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| EC Index-No. | : 017-013-00-2 | | |
|---------------------|--|---------|--|
| Name | Product identifier | % | |
| calcium chloride | (CAS-No.) 10043-52-4 (EC-No.) 233-140-8 (EC Index-No.) 017-013-00-2 (REACH-no) 01-2119494219-28 | 76 - 77 | |
| Calcium dihydroxide | (CAS-No.) 1305-62-0 (EC-No.) 215-137-3 (REACH-no) 01-2119475151-45 | < 1 | |

Full text of H-statements: see section 16

3.2. Mixtures Not applicable

| SECTION 4: First aid measures | |
|---|---|
| 4.1. Description of first aid measures | |
| First-aid measures general | : In all cases of doubt, or when symptoms persist, seek medical attention. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. |
| First-aid measures after skin contact | : Wash skin with plenty of water. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | : Call a poison center or a doctor if you feel unwell. |
| 4.2. Most important symptoms and effects, | both acute and delayed |
| Symptoms/effects after inhalation | : May cause respiratory irritation. |
| Symptoms/effects after skin contact | : Causes skin irritation. |
| Symptoms/effects after eye contact | : Eye irritation. |
| Symptoms/effects after ingestion | : Burns or irritation of the linings of the mouth, throat, and gastrointestinal tract. |
| 4.3. Indication of any immediate medical at | tention and special treatment needed |

Treat symptomatically.

| SECTION 5: Firefighting measures 5.1. Extinguishing media | |
|--|--|
| Suitable extinguishing media | : Water spray. Dry powder. Foam. |
| 5.2. Special hazards arising from the substa | ance or mixture : Not flammable. |
| | . Not hanmable. |
| Hazardous decomposition products in case of fire | : Toxic fumes may be released. |
| 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 | | | |
| Emergency procedures | : Ventilate spillage area. Avoid contact with skin and eyes. | | |
| 6.1.2. For emergency responders | | | |
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". | | |
| 6.2. Environmental precautions | | | |
| Avoid release to the environment. | | | |
| 6.3. Methods and material for containment an | id cleaning up | | |
| Methods for cleaning up | : Mechanically recover the product. | | |
| Other information | : Dispose of materials or solid residues at an authorized site. | | |
| 6.4. Reference to other sections | | | |
| For further information refer to section 13. | | | |

| SECTION 7: Handling and storage | |
|------------------------------------|--|
| 7.1. Precautions for safe handling | |
| Precautions for safe handling | : Ensure good ventilation of the work station. Avoid contact with skin and eyes. Wear personal protective equipment. |
| Hygiene measures | : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. |

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| 7.2. Conditions for safe storage, including any incompatibilities | | |
|---|--|--|
| Storage conditions | : Store in a well-ventilated place. Keep cool. | |
| Incompatible products | : Oxidizing agent. Strong acids. reducing materials. | |
| Storage temperature | : ≈ 18 °C | |
| Storage area | : Store in a dry area. | |
| 7.3. Specific end use(s) | | |

No additional information available

| SECTION 8: Exposure controls/personal protection | | | |
|--|---|--|--|
| 8.1. Control parameters | | | |
| Calcium dihydroxide (1305-62-0) | | | |
| EU - Occupational Exposure Limits | | | |
| IOELV TWA (mg/m³) | 1 mg/m ³ (Respirable fraction) | | |
| IOELV STEL (mg/m ³) | 4 mg/m ³ (Respirable fraction) | | |
| Belgium - Occupational Exposure Limits | | | |
| Limit value (mg/m³) | 1 mg/m ³ | | |
| Short time value (mg/m³) | 4 mg/m ³ | | |
| France - Occupational Exposure Limits | | | |
| VME (mg/m³) | 5 mg/m³ | | |
| Netherlands - Occupational Exposure Limits | | | |
| Grenswaarde TGG 8H (mg/m³) | 1 mg/m ³ | | |
| Grenswaarde TGG 15MIN (mg/m ³) | 4 mg/m³ | | |
| United Kingdom - Occupational Exposure Limits | | | |
| WEL TWA (mg/m³) | 5 mg/m³ 1 mg/m³ | | |
| WEL STEL (mg/m³) | 4 mg/m ³ | | |
| USA - ACGIH - Occupational Exposure Limits | | | |
| ACGIH TWA (mg/m ³) 5 mg/m ³ | | | |
| Calcium chloride 77% (10035-04-8) | | | |
| DNEL/DMEL (Workers) | | | |
| Acute - local effects, inhalation | 10 mg/m ³ | | |
| Long-term - local effects, inhalation | 5 mg/m ³ | | |
| DNEL/DMEL (General population) | | | |
| Acute - local effects, inhalation | 5 mg/m³ | | |
| Long-term - local effects, inhalation | 2.5 mg/m ³ | | |
| 8.2. Exposure controls | | | |
| Appropriate engineering controls: | | | |

Ensure good ventilation of the work station. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Personal protective equipment:

Protective clothing. Gloves. Safety glasses. Dust formation: dust mask.

| Materials for protective clothing: | | | |
|--|--|--|--|
| Protective clothing | | | |
| Condition Material Standard | | | |
| Wear suitable protective clothing EN 14605 | | | |
| Hand protection: | | | |
| Protective gloves | | | |

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| Туре | Material | Permeation | Thickness (mm) | Penetrati | on | Standard |
|-------------------------|--|------------------------------|---------------------------|-----------|--------|------------|
| Disposable gloves | Nitrile rubber (NBR), Polyvinylchloride (PVC), Natural rubber, neoprene | 6 (> 480 minutes) | 0.7 | | | EN ISO 374 |
| Eye protection: | | | | | | |
| Chemical goggles or s | safety glasses | | | | | |
| Туре | Use | Use Characteristics Standard | | | | |
| Safety glasses | | | Protective goggles EN 166 | | EN 166 | |
| Respiratory protection: | | | | | | |
| In case of inadequate | ventilation wear respirator | y protection. | | | | |
| Device | Filter type | | Condition Standard | | | |
| Breathing equipment | Type P2 | | Dust protection | | | |

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke when using this product. Wash hands before break and at end of works. Wash clothing before re-using.

| SECTION 9: Physical and chemical properties | | |
|--|--------------------------|--|
| 9.1. Information on basic physical and chemical properties | | |
| Physical state | : Solid | |
| Appearance | : Flakes. | |
| Molecular mass | : 147.02 g/mol | |
| Colour | : white. | |
| Odour | : odourless. | |
| Odour threshold | : No data available | |
| pH | : No data available | |
| pH solution | : 100 (7 - 11) g/l @20°C | |
| Relative evaporation rate (butylacetate=1) | : No data available | |
| Melting point | : 782 °C | |
| Freezing point | : Not applicable | |
| Boiling point | : 1600 °C | |
| 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 | |
| Density | : 2150 kg/m³ @25°C | |
| Solubility | : Water: 745 g/l @20°C | |
| 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

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| SECTION 10: Stability and reactivity |
|--|
| 10.1. Reactivity |
| Do not allow contact with water. |
| 10.2. Chemical stability |
| Stable under normal conditions. |
| 10.3. Possibility of hazardous reactions |
| The product can react with strong reducing and oxidizing agents. |
| 10.4. Conditions to avoid |
| None under recommended storage and handling conditions (see section 7). |
| 10.5. Incompatible materials |
| Water, humidity. |
| 10.6. Hazardous decomposition products |
| Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

| SECTION 11: Toxicological information 11.1. Information on toxicological effects | | |
|---|---------------------|--|
| • | Not classified | |
| Acute toxicity (dermal) : | Not classified | |
| Acute toxicity (inhalation) : | Not classified | |
| Calcium chloride 77% (10035-04-8) | | |
| LD50 oral rat | 2301 mg/kg OESO 401 | |
| LD50 dermal rabbit | > 5000 mg/kg | |

| Calcium dihydroxide (1305-62-0) | | |
|-----------------------------------|--|--|
| LD50 oral rat | > 2000 mg/kg bodyweight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral, 14 day(s)) | |
| LD50 dermal rabbit | > 2500 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s)) | |
| LC50 inhalation rat (mg/l) | > 6.04 mg/l (OECD 436: Acute inhalation toxicity-acute toxic class method, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 15 day(s)) | |
| Skin corrosion/irritation | : Not irritating to rabbits on cutaneous application | |
| Serious eye damage/irritation | : Causes serious eye irritation. | |
| Respiratory or skin sensitisation | : Not classified | |
| Germ cell mutagenicity | : Not classified | |
| Carcinogenicity | : Not classified | |
| Reproductive toxicity | : Not classified | |
| STOT-single exposure | : Not classified | |
| STOT-repeated exposure | : Not classified | |
| Aspiration hazard | : Not classified | |

| SECTION 12: Ecological information | |
|------------------------------------|---|
| 12.1. Toxicity | |
| | 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 |
| Calcium chloride 77% (10035-04-8) | |
| LC50 fish 1 | 4630 mg/l Thick-headed zipper |
| EC50 Daphnia 1 | 2400 mg/l Daphnia magna, OESO 202 |
| EC50 72h algae (1) | 2900 mg/l Selenastrum capricornutum, OESO 201 |
| | |
| calcium chloride | |
| ErC50 (algae) | > 4000 mg/l |

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| Calcium dihydroxide (1305-62-0) | | |
|---|--|--|
| LC50 fish 1 | 50.6 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Experimental value, GLP) | |
| EC50 Daphnia 1 | 49.1 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP) | |
| EC50 72h algae (1) | 184.57 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, GLP) | |
| 12.2. Persistence and degradability | | |
| Calcium dihydroxide (1305-62-0) | | |
| Persistence and degradability | Biodegradability: not applicable. | |
| Chemical oxygen demand (COD) | Not applicable (inorganic) | |
| ThOD | Not applicable (inorganic) | |
| 12.3. Bioaccumulative potential | | |
| Calcium dihydroxide (1305-62-0) | | |
| Bioaccumulative potential | Not bioaccumulative. | |
| 12.4. Mobility in soil | | |
| Calcium dihydroxide (1305-62-0) | | |
| Ecology - soil | Adsorbs into the soil. | |
| 12.5. Results of PBT and vPvB assessment | | |
| Component | | |
| Calcium dihydroxide (1305-62-0) | This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII | |
| 12.6. Other adverse effects No additional information available | | |

SECTION 13: Disposal considerations 13.1. Waste treatment methods

Waste treatment methods

: Dispose of contents/container in accordance with licensed collector's sorting instructions.

| SECTION 14: Transport information In accordance with ADR / RID / IMDG / IATA / ADN | | | | |
|---|----------------|----------------|----------------|----------------|
| | | ΙΑΤΑ | ADN | RID |
| | | | | |
| 14.1. UN number | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.2. UN proper shipping name | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| No supplementary information available | | | | |
| 14.6. Special precautions for user | | | | |
| Overland transport | | | | |
| lot applicable | | | | |

Transport by sea

Not applicable

Air transport

Not applicable

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Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code Not applicable

SECTION 15: Regulatory information 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Calcium chloride 77% is not on the REACH Candidate List

Calcium chloride 77% is not on the REACH Annex XIV List

Calcium chloride 77% TG flakes is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Calcium chloride 77% TG flakes is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

15.1.2. National regulations

Germany

| Reference to AwSV | : Water hazard class (WGK) 1, Slightly hazardous to water (Classification according to VwVwS, Annex 1 or 2; ID No. 220) |
|--|--|
| 12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV | : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance) |
| Netherlands | |
| ABM category | : B(4) - low hazard for aquatic organisms |
| SZW-lijst van kankerverwekkende stoffen | : The substance is not listed |
| SZW-lijst van mutagene stoffen | : The substance is not listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding | : The substance is not listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid | : The substance is not listed |
| NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling | : The substance is not listed |
| 15.2. Chemical safety assessment | |
| No chemical safety assessment has been carried of | ut |

SECTION 16: Other information

| Abbreviations and acronyms: | |
|-----------------------------|---|
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| DPD | Dangerous Preparations Directive 1999/45/EC |
| DSD | Dangerous Substances Directive 67/548/EEC |
| EC50 | Median effective concentration |
| IARC | International Agency for Research on Cancer |
| ΙΑΤΑ | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |

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| | (|
|-------------------------------------|---|
| LOAEL | Lowest Observed Adverse Effect Level |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| OECD | Organisation for Economic Co-operation and Development |
| РВТ | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| STP | Sewage treatment plant |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| TLM | Median Tolerance Limit |
| SDS | Safety Data Sheet |
| vPvB | Very Persistent and Very Bioaccumulative |
| Full text of H- and EUH-statements: | |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Skin Irrit. 2 | Skin corrosion/irritation, Category 2 |
| STOT SE 3 | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H315 | Causes skin irritation. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| | |

SDS EU (REACH Annex II)

H335

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

May cause respiratory irritation.