

SAFETY DATA SHEET

North American Version

CALCIUM CARBONATE HP

1. PRODUCT AND COMPANY IDENTIFICATION

1.1. Identification of the substance or preparation

Product name : CALCIUM CARBONATE HP
Chemical Name : Calcium carbonate high purity
Commercial Product Name : Calcium carbonate, grade CF 800
Molecular formula : CaCO₃
Molecular Weight : 100,09 g/mol

1.2. Use of the Substance/Preparation

Recommended use : - Construction materials additives
- Chemical industry
- Pharmaceuticals
- Glass industry
- Welding and soldering agents
- Electrical industry

1.3. Company/Undertaking Identification

Address : SOLVAY CHEMICALS, INC.
3333 RICHMOND AVENUE
HOUSTON TX 77098-3099
United States

1.4. Emergency and contact telephone numbers

Emergency telephone : 1 (800) 424-9300 CHEMTREC® (USA & Canada)
01-800-00-214-00 (MEX. REPUBLIC)

Contact telephone number : US: +1-800-765-8292 (Product information)
(product information): US: +1-713-525-6500 (Product information)

2. HAZARDS IDENTIFICATION

2.1. Emergency Overview:

NFPA : H= 1 F= 0 I= 0 S= none
HMIS : H= 1 F= 0 R= 0 PPE = Supplied by User; dependent on local conditions

General Information

Appearance : powder
Colour : white
Odour : odourless

2.2. Potential Health Effects:

Inhalation

- negligible

Eye contact

- Moderate eye irritation

Skin contact

- Repeated or prolonged exposure: slight irritation.

Ingestion

- (in case of higher concentration): Stomach/intestinal disorders.

Other toxicity effects

- See section 11: Toxicological Information

2.3. Environmental Effects:

- See section 12: Ecological Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Calcium carbonate

CAS-No.	:	471-34-1
Concentration	:	>= 99,5 %

4. FIRST AID MEASURES

4.1. Inhalation

- Remove the subject from dusty environment and let him blow his nose.

4.2. Eye contact

- Flush eyes with running water for several minutes, while keeping the eyelids wide open.
- If eye irritation persists, consult a specialist.

4.3. Skin contact

- Wash off with soap and water.
- Wash contaminated clothing before re-use.

4.4. Ingestion

If victim is conscious:

- Clean mouth with water and drink afterwards plenty of water.

If victim is unconscious but breathing:

- not applicable

5. FIRE-FIGHTING MEASURES

5.1. Suitable extinguishing media

- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.2. Extinguishing media which shall not be used for safety reasons

- None.

5.3. Special exposure hazards in a fire

- Not combustible.

5.4. Hazardous decomposition products

- Calcium oxyde

5.5. Special protective equipment for fire-fighters

- No special precautions required.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions

- Refer to protective measures listed in sections 7 and 8.

6.2. Environmental precautions

- Should not be released into the environment.

6.3. Methods for cleaning up

- Pick up and arrange disposal without creating dust.
- Keep in properly labelled containers.
- Keep container closed.
- Treat recovered material as described in the section "Disposal considerations".
- Flush with plenty of water.

7. HANDLING AND STORAGE

7.1. Handling

- Use only in well-ventilated areas.
- Keep away from incompatible products

7.2. Storage

- Keep in a dry place.
- Keep only in the original container.
- Keep container closed.

7.3. Packaging material

- Paper + PE.

7.4. Other information

- Refer to protective measures listed in sections 7 and 8.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Exposure Limit Values

Calcium carbonate

- Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2) 10 2006
time weighted average = 10 mg/m³
- Canada. Ontario OELs. (Ministry of Labor - Control of Exposure to Biological or Chemical Agents) 12 2007
time weighted average = 10 mg/m³
- Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) 07 2007
time weighted average = 10 mg/m³
Remarks: Total dust
- Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) 07 2007
time weighted average = 3 mg/m³
Remarks: respirable dust fraction
- Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended) 07 2007
Short term exposure limit = 20 mg/m³
Remarks: Total dust

- Canada. Quebec OELS. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment) 2006
time weighted average = 10 mg/m³
Remarks: Total dust

8.2. Engineering controls

- Ensure adequate ventilation.

8.3. Personal protective equipment

8.3.1. Respiratory protection

- Effective dust mask.

8.3.2. Hand protection

- Protective gloves
- Suitable material: PVC, Neoprene, Natural Rubber

8.3.3. Eye protection

- Chemical resistant goggles must be worn.

8.3.4. Skin and body protection

- Protective suit

8.3.5. Hygiene measures

- Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General Information

Appearance	:	powder
Colour	:	white
Odour	:	odourless

9.2. Important health safety and environmental information

pH	:	Remarks: not applicable
Boiling point/boiling range	:	Remarks: not applicable
Flash point	:	Remarks: not applicable
Flammability	:	<u>Lower explosion limit:</u> Remarks: not applicable Remarks: not applicable
Explosive properties	:	<u>Explosion danger:</u> Remarks: Not explosive
Relative density / Density	:	2,93 (Aragonite)2,71 (Calcite)
Bulk density	:	from 300 - 600 kg/m ³
Solubility	:	14 mg/l Temperature: 25 °C (77 °F) : slightly soluble : Water : Soluble in: : Acids

Partition coefficient: : *Remarks:* With release of CO₂
n-octanol/water : *Remarks:* not applicable

9.3. Other data

Melting point/range : *Remarks:* not applicable, Thermal decomposition
Decomposition temperature : from 700 - 900 °C (1.292 - 1.652 °F)

10. STABILITY AND REACTIVITY

10.1. Stability

- Contact with acids liberates CO₂, sometimes violently.

10.2. Conditions to avoid

- none
- Keep at temperature not exceeding: 700 - 900 °C (1.292 - 1.652 °F)

10.3. Materials to avoid

- Acids

10.4. Hazardous decomposition products

- Calcium oxyde

11. TOXICOLOGICAL INFORMATION

Toxicological data

Acute oral toxicity

- LD₅₀, rat, > 2.000 mg/kg

Skin irritation

- rabbit, No skin irritation

Eye irritation

- rabbit, Mild eye irritation

Remarks

- Health injuries are not known or expected under normal use.

12. ECOLOGICAL INFORMATION

12.1. Ecotoxicity effects

Acute toxicity

- *Remarks:* toxic threshold greater than its water solubility

12.2. Mobility

- Air
Remarks: mobility as solid aerosols
- Water, Soil
Remarks: low solubility and mobility

12.3. Persistence and degradability

Abiotic degradation

- Water, Soil, Hydrolysis
Result: acid/base equilibrium as a function of pH
Degradation products: carbonic acid/bicarbonate/carbonate / acid/base equilibrium as a function of pH
- Water, Soil
Result: complexation/precipitation of inorganic and organic materials

Biodegradation

- Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

12.4. Bioaccumulative potential

- Result: not applicable

12.5. Other adverse effects

- no data available

12.6. Remarks

- Ecological injuries are not known or expected under normal use.
- Product fate is highly dependent on environmental conditions: pH, temperature, redox potential, mineral and organic content of the medium,...

13. DISPOSAL CONSIDERATIONS

13.1. Waste from residues / unused products

- In accordance with local and national regulations.
- Can be landfilled, when in compliance with local regulations.
- Dispose of in accordance with the European Directives on waste and hazardous waste.

13.2. Packaging treatment

- Empty containers.
- Dispose of as unused product.
- Must be incinerated in a suitable incineration plant holding a permit delivered by the competent authorities.
- The empty and clean containers are to be reused in conformity with regulations.

13.3. RCRA Hazardous Waste

- Listed RCRA Hazardous Waste (40 CFR 302) - No
- Unlisted RCRA Hazardous Waste (40 CFR 302) - No

14. TRANSPORT INFORMATION

- not regulated
- It is recommended that ERG Guide number 111 be used for all non-regulated material.

15. REGULATORY INFORMATION

15.1. Inventory Information

Toxic Substance Control Act list (TSCA)	: -	In compliance with inventory.
Australian Inventory of Chemical Substances (AICS)	: -	In compliance with inventory.
Canadian Domestic Substances List (DSL)	: -	In compliance with inventory.
Korea Existing Chemicals Inv.	: -	In compliance with inventory.

(KECI) (KECI (KR))		
EU list of existing chemical substances (EINECS)	: -	In compliance with inventory.
Japan (ENCS) List (ENCS (JP))	: -	In compliance with inventory.
Inventory of Existing Chemical Substances (China) (IECS)	: -	In compliance with inventory.
Philippine Inventory of Chemicals and Chemical Substances (PICCS)	: -	In compliance with inventory.
New Zealand Inventory (in preparation) (NZ)	: -	In compliance with inventory.

15.2. Other regulations

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

- not regulated.

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 CFR 372.65) - Supplier Notification Required

- not regulated.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

- not regulated.

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

- not regulated.

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323)

- yes.

US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)

- not regulated.

15.3. Classification and labelling

Canada. Canadian Environmental Protection Act (CEPA). WHMIS Ingredient Disclosure List (Can. Gaz., Part II, Vol. 122, No. 2)

- Not listed

Remarks: This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

EC Label

- Preparation non classified according to Directive 1999/45/EC.

16. OTHER INFORMATION

Ratings :

NFPA (National Fire Protection Association)

Health = 1 Flammability = 0 Instability = 0 Special = none

HMIS (Hazardous Material Information System)

Health = 1 Fire = 0 Reactivity = 0 PPE : Supplied by User; dependent on local conditions

Further information

- General revision
- Distribute new edition to clients

Material Safety Data Sheets contain country specific regulatory information; therefore, the MSDS's provided are for use only by customers of the company mentioned in section 1 in North America. If you are located in a country other than Canada, Mexico or the United States, please contact the Solvay Group company in your country for MSDS information applicable to your location. The previous information is based upon our current knowledge and experience of our product and is not exhaustive. It applies to the product as defined by the specifications. In case of combinations or mixtures, one must confirm that no new hazards are likely to exist. In any case, the user is not exempt from observing all legal, administrative and regulatory procedures relating to the product, personal hygiene, and integrity of the work environment. (Unless noted to the contrary, the technical information applies only to pure product). To our actual knowledge, the information contained herein is accurate as of the date of this document. However, neither the company mentioned in section 1 nor any of its affiliates makes any warranty, express or implied, including merchantability or fitness for use, or accepts any liability in connection with this information or its use. This information is for use by technically skilled persons at their own discretion and risk and does not relate to the use of this product in combination with any other substance or any other process. This is not a license under any patent or other proprietary right. The user alone must finally determine suitability of any information or material for any contemplated use in compliance with applicable law, the manner of use and whether any patents are infringed. This information gives typical properties only and is not to be used for specification purposes. The company mentioned in section 1 reserves the right to make additions, deletions or modifications to the information at any time without prior notification. Trademarks and/or other products of the company mentioned in section 1 referenced herein are either trademarks or registered trademarks of the company mentioned in section 1 or its affiliates, unless otherwise indicated.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

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