

SAFETY DATA SHEET

Issuing Date 03-Aug-2009 Revision Date 17-Feb-2016 Revision Number 2

1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Calcium Chloride, Anhydrous

Other means of identification

Product Code(s) 1B1110

Synonyms No information available

Recommended use of the chemical and restrictions on use

Recommended Use For Further Manufacturing Use Only.
Uses advised against Not for Human or Animal Drug Use

Details of the supplier of the safety data sheet

Company AddressManufacturer AddressVWR International, LLCVWR Chemicals, LLCRadnor Corporate Center28600 Fountain Parkway100 Matsonford RoadSolon, Ohio 44139

Radnor, PA 19087-8660

Company Phone Number 1-800-448-4442
E-mail Address info@amresco-inc.com

Emergency Telephone Number

Emergency Telephone Number Chemtrec 1-800-424-9300

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Serious Eye Damage/Eye Irritation Category 2A

Label elements

Emergency Overview

Warning

Hazard statements

H319 - Causes serious eye irritation



Appearance White Physical State Fine, Flake like Powder

Odor No information available

Precautionary Statements - Prevention

Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection

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IF IN EYES: 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

Hazards not otherwise classified (HNOC)

Not regulated

Other Information

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS-No | EC No. | Weight % | Trade Secret |
|------------------|------------|-----------|----------|----------------|
| Calcium chloride | 10043-52-4 | 233-140-8 | 95-100 | Not applicable |

4. FIRST AID MEASURES

First Aid Measures

Eye Contact Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids.

Consult a physician.

Skin Contact Wash off immediately with soap and plenty of water removing all contaminated clothes and

shoes.

Inhalation Move to fresh air. If not breathing, give artificial respiration.

Ingestion Never give anything by mouth to an unconscious person. Rinse mouth.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects No information available.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

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

Unsuitable Extinguishing Media No information available.

Specific Hazards Arising from the Chemical

No information available.

Hazardous Combustion

Hydrogen Chloride gas. Carbon oxides. Calcium oxide.

Products

Explosion Data

Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal protection Ensure adequate ventilation, especially in confined areas.

Environmental Precautions

Environmental PrecautionsSee Section 12 for additional Ecological information.

Methods and material for containment and cleaning up

Methods for Containment Prevent further leakage or spillage if safe to do so.

Methods for Cleaning Up Avoid dust formation. Pick up and transfer to properly labeled containers. Ventilate area

and wash spill site after material pickup is complete.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Handling Handle in accordance with good industrial hygiene and safety practice. Hygroscopic.

Conditions for safe storage, including any incompatibilities

Storage Keep containers tightly closed in a dry, cool and well-ventilated place. Hygroscopic.

Incompatible Products Strong acids. Boron oxides. Zinc. Calcium oxide. Methyl vinyl ether. Calcium chloride is

attacked by bromine trifluoride.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure GuidelinesThis product does not contain any hazardous materials with occupational exposure limits

established by the region specific regulatory bodies.

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|------------------|-----------|----------|------------|
| Calcium chloride | - | - | - |
| 10043-52-4 | | | |

Appropriate engineering controls

Engineering Measures Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Avoid contact with eyes. Safety glasses with side-shields.

Skin and Body Protection Wear protective gloves/clothing.

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved

respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be

provided in accordance with current local regulations.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Fine, Flake like Powder **Physical State**

White **Appearance**

No information available Odor Threshold No information available No information available Color

Odor

Remarks • Method

Property Values

No information available pΗ

782 °C Melting point/freezing point >1600 °C **Boiling Point/Range**

Flash Point (High in °C) No information available **Evaporation Rate** No information available Flammability (solid, gas) No information available

Flammability Limit in Air

Upper flammability limit: No information available Lower flammability limit: No information available Vapor pressure No information available Vapor Density No information available

Specific Gravity 2.15

Water Solubility Very soluble in water Exothermic

Solubility in other solvents No information available Partition coefficient No information available **Autoignition Temperature** No information available **Decomposition Temperature** No information available Kinematic viscosity No information available No information available Dynamic viscosity **Explosive Properties** No information available Oxidizing Properties No information available

Other Information

Softening Point No information available Molecular Weight No information available **VOC Content** No information available No information available Density **Bulk Density** No information available

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to Avoid

Hygroscopic.

Incompatible Materials

Strong acids. Boron oxides. Zinc. Calcium oxide. Methyl vinyl ether. Calcium chloride is attacked by bromine trifluoride.

Hazardous Decomposition Products

Carbon oxides. Hydrogen chloride gas. Calcium oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation There is no data available for this product.

Eye Contact Severely irritating to eyes.

Skin Contact There is no data available for this product.

Ingestion There is no data available for this product.

| Chemical Name | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|------------------|----------------------|--------------------|-----------------|
| Calcium chloride | = 1000 mg/kg (Rat) | = 2630 mg/kg (Rat) | - |
| 10043-52-4 | | | |

Information on toxicological effects

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Serious Eye Damage/Eye Irritation
Sensitization
Mutagenic Effects
Carcinogenicity

Risk of serious damage to eyes.
No information available.
No information available.
No information available.

 Chemical Name
 ACGIH
 IARC
 NTP
 OSHA

 Calcium chloride

 10043-52-4

Reproductive Toxicity
STOT - single exposure
STOT - repeated exposure
Aspiration hazard

No information available.
No information available.
No information available.

Numerical measures of toxicity - Product Information

The following values are calculated based on chapter 3.1 of the GHS document .

12. ECOLOGICAL INFORMATION

Ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

| Chemical Name | Algae/aquatic plants | Toxicity to Fish | Crustacea |
|------------------|----------------------|---------------------------------|-------------------------------|
| Calcium chloride | - | 10650: 96 h Lepomis macrochirus | 2400: 48 h Daphnia magna mg/L |
| 10043-52-4 | | mg/L LC50 static | LC50 |

Persistence and Degradability

No information available.

Bioaccumulation/Accumulation

No information available.

| Chemical Name | Partition coefficient |
|--------------------------------|-----------------------|
| Calcium chloride 10043-52-4 | - |

Other Adverse Effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Method Dispose of material in accordance with all federal, state, and local regulations.

Contaminated Packaging Do not re-use empty containers.

| | Chemical Name | RCRA | RCRA - Basis for Listing | RCRA - D Series Wastes | RCRA - U Series Wastes |
|---|------------------|------|--------------------------|------------------------|------------------------|
| Γ | Calcium chloride | - | - | - | - |

| 10043-52-4 | | | | |
|--------------------------------|---|------------------------|------------------------|------------------------|
| Chemical Name | RCRA - Halogenated Organic Compounds | RCRA - P Series Wastes | RCRA - F Series Wastes | RCRA - K Series Wastes |
| Calcium chloride 10043-52-4 | - | - | - | - |

| Chemical Name | California Hazardous Waste Status |
|------------------|-----------------------------------|
| Calcium chloride | - |
| 10043-52-4 | |

14. TRANSPORT INFORMATION

DOTNot regulatedIATANot regulated

15. REGULATORY INFORMATION

International Inventories

TSCA Complies Complies DSL/NDSL **EINECS/ELINCS** Complies Complies **ENCS** Complies **IECSC** Complies . **KECL PICCS** Complies AICS Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

| Component | SARA 313 - Threshold Values % |
|-----------------------|-------------------------------|
| Calcium chloride | - |
| 10043-52-4 (95-100) | |

SARA 311/312 Hazard Categories

| Acute Health Hazard | Yes |
|-----------------------------------|-----|
| Chronic Health Hazard | No |
| Fire Hazard | No |
| Sudden Release of Pressure Hazard | No |
| Reactive Hazard | No |

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Chemical Name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|--------------------------------|--------------------------------|------------------------|---------------------------|-------------------------------|
| Calcium chloride 10043-52-4 | - | - | - | - |

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

| Chemical Name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ |
|--------------------------------|--------------------------|------------------------------------|----|
| Calcium chloride 10043-52-4 | - | - | - |

U.S. State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

| Chemical Name | California Prop. 65 | |
|-------------------------------|---------------------|--|
| Calcium chloride - 10043-52-4 | - | |

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|------------------|------------|---------------|--------------|
| Calcium chloride | - | - | - |
| 10043-52-4 | | | |

U.S. EPA Label Information

EPA Pesticide Registration Number Not regulated

16. OTHER INFORMATION

Issuing Date03-Aug-2009Revision Date17-Feb-2016

Revision Note

No information available

Disclaimer

The above information is believed to be correct but does not purport to be all-inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. VWR International and its Affiliates shall not be held liable for any damage resulting from handling.

End of Safety Data Sheet