

## MATERIAL SAFETY DATA SHEET

USA version v1.01 Revision Date 2012-2-20

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### 1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY

#### 1.1 Product identifiers

Product name : Calcium chloride anhydrous

Product Number : C110766

CAS-No. : 10043-52-4

Alias name : Calcium chloride fused

Brand : aladdin

#### 1.2 Other identification methods

no data available

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

no data available

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

Company : Aladdin Industrial Corporation  
16050 Kaplan Ave,  
City of Industry, CA 91744  
U.S.A

Telephone : 855-568-4500

Department : Sales Department

Fax : 626-333-7870

E-mail address : [contactus@aladdin-e.com](mailto:contactus@aladdin-e.com)

#### 1.5 Emergency telephone number

Emergency Phone # : 626 616 0223

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### 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

Health hazards

Serious eye damage : Eye Irrit. 2

#### 2.2 GHS Label elements

Pictogram



GHS07:Exclamation Mark;

Signal word

【Danger】

Hazard statement(s)

H319

Causes serious eye irritation

H302

Harmful if swallowed

H318

Causes serious eye damage

H402

Harmful to aquatic life

Precautionary statement(s)

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P264

Wash hands / ... thoroughly after handling.

P270

Do not eat, drink or smoke when using this product.

P273

Avoid release to the environment.

P280

Wear protective gloves/protective clothing/eye protection/face protection.

P301+P312

IF SWALLOWED: call a POISON CENTER or doctor/physician IF you feel unwell.

P310

Immediately call a POISON CENTER or doctor/physician.

P330

Rinse mouth.

P501

Dispose of contents/container to.....

RS

Hazard symbol(s)

Xi

R-phrase(s)

R36

S-phrase(s)

S22;S24

2.3 Other hazards - none

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### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

Formula :  $\text{CaCl}_2$

Molecular Weight : 110.98 g/mol

Composition ingredients (Substance)	Concentration
Calcium chloride anhydrous	

CAS-No.	10043-52-4	-
EC-No.	231-791-2	

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#### 4 FIRST AID MEASURES

##### 4.1 Description of first aid measures

###### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

###### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

###### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

###### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

###### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

no data available

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

no data available

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#### 5 FIRE-FIGHTING MEASURES

##### 5.1 Extinguishing media

Fire disaster Features

no data available

Suitable extinguishing media

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

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

Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Calcium oxide

##### 5.3 Precautions for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

##### 5.4 Further information

The product itself does not burn.

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## 6 ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.

### 6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other sections

no data available

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## 7 HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.

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

Keep container tightly closed in a dry and well-ventilated place. Moisture sensitive.

### 7.3 Specific end uses

no data available

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## 8 EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

The maximum allowed concentration

Composition ingredients	CAS-No.	Value	Control parameters	standard
Calcium chloride anhydrous	10043-52-4	PC-TWA	no data available	Permissible concentration-Time Weighted Average (China)
		no data available	no data available	no data available

### 8.2 Exposure controls

Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Personal protective equipment

### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching gloves outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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## 9 PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a) Appearance	Form : Crystal Colour : white
b) Odour	no data available
c) Odour Threshold	no data available
d) pH	no data available
e) Melting/freezing point	782°C
f) Initial boiling point and boiling range	1600°C
g) Flash point	no data available
h) Evaporation rate	no data available
i) Flammability (solid, gas)	no data available
j) Upper/lower flammability or explosive limits	no data available
k) Vapour pressure	0.01 hPa at 20 °C
l) Vapour density	no data available
m) Relative density	2.150 g/cm <sup>3</sup>
n) Solubility / Water solubility	no data available

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|--|-------------------|
| o) Partition coefficient<br>noctanol/water | no data available |
| p) Autoignition temperature(°C/°F)         | no data available |
| q) Decomposition temperature               | no data available |
| r) Viscosity                               | no data available |

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## 10 STABILITY AND REACTIVITY

### 10.1 Reactivity

no data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

no data available

### 10.4 Conditions to avoid

Exposure to moisture may affect product quality.

### 10.5 Incompatible materials

Strong acids, Borane/boron oxides, Zinc, Calcium oxide, Methyl vinyl ether, Calcium chloride is attacked by bromine trifluoride

### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Hydrogen chloride gas, Calcium oxide

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## 11 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity

Oral LD50

LD50 Oral - rat - 1,000 mg/kg

subAcute toxicity

no data available

Irritation

no data available

Skin corrosion/Irritation

Skin - rabbit - No skin irritation

Serious eye damage/eye irritation

Eyes - rat - Severe eye irritation

AspirationHazard

no data available

Germ cell mutagenicity

Genotoxicity in vivo - rat - Intraperitoneal Unscheduled DNA synthesis

Carcinogenicity, IARC

No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

no data available

Specific target organ toxicity - single exposure

no data available

Specific target organ toxicity - repeated exposure

no data available

Potential health effects

Inhalation	May be harmful if inhaled. Causes respiratory tract irritation.
Ingestion	Harmful if swallowed.
Skin	Harmful if absorbed through skin. Causes skin irritation.
Eyes	Causes eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information

RTECS: EV9800000

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12 ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to fish LC50 - *Lepomis macrochirus* - 10,650 mg/l - 96 h

Toxicity to daphnia  
and other aquatic  
invertebrates

EC50 - *Daphnia magna* (Water flea) - 52 mg/l - 48 h

12.2 Persistence and degradability

no data available

12.3 Bioaccumulative potential

no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

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## 13 DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Product

Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

#### Contaminated packaging

Dispose of as unused product.

#### Additional Information :

no data available

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## 14 TRANSPORT INFORMATION

### 14.1 UN-Number

ADR/RID : no data available

IMDG : no data available

IATA : no data available

### 14.2 UN proper shipping name

ADR/RID : no data available

IMDG : no data available

IATA : no data available

### 14.3 Transport hazard class(es)

ADR/RID : no data available

IMDG : no data available

IATA : no data available

### 14.4 Packaging group

ADR/RID : no data available

IMDG : no data available

IATA : no data available

### 14.5 Environmental hazards

ADR/RID :no data available

IMDG Marine pollutant :no data available

IATA : no data available

### 14.6 Special precautions for users

no data available

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## 15 REGULATORY INFORMATION

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

### 15.1 mixture

#### Chemical Safety Assessment

OSHA Hazards Harmful by ingestion., Irritant SARA 302 Components SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302. SARA 313 Components SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313. SARA 311/312 Hazards Acute Health Hazard Massachusetts Right To Know Components No components are subject to the Massachusetts Right to Know Act. Pennsylvania Right To Know Components Calcium chloride CAS-No. 10043-52-4 Revision Date New Jersey Right To Know Components Calcium chloride CAS-No. 10043-52-4 Revision Date California

Prop. 65 Components This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

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16 OTHER INFORMATION

Further information

Copyright : no data available

no data available

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