

Calcium chloride

C1016-100G

Version 1.2 Issuing date 07/22/2016 Revision Date 10/02/2017 Print Date 08/06/2019

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : Calcium chloride

Number : 00000020204

Recommended use of the chemical and restrictions on

use

Laboratory chemicals

Manufacturer or supplier's

details

Honeywell Specialty Chemicals Seelze

GmbH

Wunstorfer Straße 40 Seelze, 30926

For further information, : 1-800-368-0050 please contact: +1-231-726-3171

(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : Medical: 1-800-498-5701 or +1-303-389-1414

Transportation (CHEMTREC): 1-800-424-9300 or +1-703-

527-3887

In Japan: +(81)-345209637 (24 hours/day, 7 days/week)

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification of the substance or mixture

: Eye irritation, Category 2A

GHS Label elements, including precautionary statements

Symbol(s) :

Signal word : Warning

Hazard statements : Causes serious eye irritation.

Precautionary statements : Prevention:

Wash skin thoroughly after handling.



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Wear protective gloves/ eye protection/ face protection.

Response:

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

insing

If eye irritation persists: Get medical advice/ attention.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : CaCl2

Chemical nature : Substance

Chemical nameCAS-No.ConcentrationCalcium chloride10043-52-4100.00 %

Calcium chloride

Note: none

4. FIRST AID MEASURES

General advice : First aider needs to protect himself.

Move out of dangerous area.

Take off all contaminated clothing immediately.

Inhalation : If inhaled, remove to fresh air.

Skin contact : After contact with skin, wash immediately with plenty of water.

Eye contact : In the case of contact with eyes, rinse immediately with plenty

of water and seek medical advice.

Ingestion : When swallowed, allow water to be drunk.

Call a physician immediately.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

Foam

Carbon dioxide (CO2)

Dry powder

Specific hazards during : In case of fire hazardous decomposition products may be



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firefighting produced such as:

Calcium oxides

Hydrogen chloride gas

Special protective equipment

for firefighters

: Wear an approved positive pressure self-contained breathing

apparatus in addition to standard fire fighting gear.

Further information : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions,

protective equipment and emergency procedures

: Wear personal protective equipment.

Avoid dust formation.

Avoid contact with skin, eyes and clothing.

Environmental precautions : Should not be released into the environment.

Methods and materials for

containment and cleaning up

: Avoid dust formation.

Use mechanical handling equipment.

Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Handling

Precautions for safe handling : Wear personal protective equipment.

Use only with adequate ventilation.

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

Storage

Conditions for safe storage,

including any incompatibilities : Keep containers tightly closed in a dry, cool and well-

ventilated place.

Store in original container.

Protect from atmospheric moisture and water.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Individual protection measures, such as personal protective equipment



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Respiratory protection : In the case of dust or aerosol formation use respirator with an

approved filter.

Hand protection : Latex gloves

Gloves must be inspected prior to use.

Replace when worn.

Eye protection : Safety goggles

Skin and body protection : Protective suit

Hygiene measures : Take off all contaminated clothing immediately.

Remove and wash contaminated clothing before re-use. Wash hands before breaks and at the end of workday.

When using do not eat or drink.

Protective measures : Ensure that eyewash stations and safety showers are close to

the workstation location.

Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.

Avoid breathing dust.

Avoid contact with skin, eyes and clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : solid

Colour : colourless

Odour : odourless

pH : ca. 6.0 at , 20 °C

Melting point/range : 765 °C

Boiling point/boiling range : ca. 1,900 °C at 1,013 hPa

Flash point : Note: Not applicable

Flammability : The product is not flammable.

Lower explosion limit : Note: Not applicable



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Upper explosion limit : Note: Not applicable

Vapour pressure

Note: no data available

Density : ca. 2.150 g/cm3 at 20 °C

Water solubility : Note: completely soluble

Partition coefficient: n-

octanol/water

: Note: no data available

Ignition temperature : Note: Not applicable

Decomposition temperature : Note: No decomposition if used as directed.

Molecular weight : 110.98 g/mol

Bulk density : ca. 640 kg/m3

10. STABILITY AND REACTIVITY

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Hazardous polymerization does not occur.

Conditions to avoid : Protect from atmospheric moisture and water.

Avoid dust formation.

Incompatible materials to

avoid

: Strong acids

Bromine Trifluoride Methyl Vinyl Ether

Zinc

Boron compounds

Hazardous decomposition

products

: In case of fire hazardous decomposition products may be

produced such as: Calcium oxides



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Hydrogen chloride gas

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: 2,301 mg/kg

Species: Rat

Method: OECD Test Guideline 401

Acute inhalation toxicity : Note: no data available

Acute dermal toxicity : LD50: > 5,000 mg/kg

Species: Rabbit

Skin irritation : Species: Rabbit

Result: No skin irritation

Method: OECD Test Guideline 404

Eye irritation : Species: Rabbit

Result: Irritating to eyes.

Method: OECD Test Guideline 405

Sensitisation : Note: no data available

Genotoxicity in vitro : Test Method: Ames test

Metabolic activation: with metabolic activation

Result: negative

Method: OECD Test Guideline 471

: Test Method: Chromosome aberration test in vitro Metabolic activation: without metabolic activation

Result: negative

Method: OECD Test Guideline 473

Teratogenicity : Species: Rat

Application Route: Oral exposure

Note: Did not show teratogenic effects in animal experiments.



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12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish : static test

LC50: 4,630 mg/l Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other

aquatic invertebrates

: static test

LC50: 2,400 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 202

Toxicity to algae : Biomass

EC50: 2,900 mg/l Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

Growth rate

EC50: > 4,000 mg/l Exposure time: 72 h

Species: Pseudokirchneriella subcapitata (green algae)

Method: OECD Test Guideline 201

Persistence and degradability

Biodegradability : Note: The methods for determining the biological degradability

are not applicable to inorganic substances.

13. DISPOSAL CONSIDERATIONS

Disposal methods : In accordance with local and national regulations.



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14. TRANSPORT INFORMATION

ADR

Not dangerous goods

IATA

Not dangerous goods

Not dangerous goods

RID

Not dangerous goods

15. REGULATORY INFORMATION

National regulatory information

Fire Service Law : Not relevant

Poisonous and Deleterious Substances Control Law

: Not relevant

Other international regulations

Notification status

US. Toxic Substances : On TSCA Inventory

Control Act

(Notification and Assessment) Act

Australia. Industrial Chemical : On the inventory, or in compliance with the inventory

Canada. Canadian

Environmental Protection Act

(CEPA). Domestic Substances List (DSL) : All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals

Inventory (KECI)

: On the inventory, or in compliance with the inventory



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Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control

Δct

China. Inventory of Existing Chemical Substances

New Zealand. Inventory of

Chemicals (NZIoC), as published by ERMA New

. Zealand : On the inventory, or in compliance with the inventory

: On the inventory, or in compliance with the inventory

: On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2	2
Flammability	: 0	0
Physical Hazard	: 1	
Instability	:	1

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group