

# Safety Data Sheet

Date of Issue: 23.07.2021 Date of Expiry: 23.07.2026

#### 1: IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name : ECP Limited

Address : PO Box 34125, Birkenhead, Auckland 0746

Telephone : +64 9 480 4386 Facsimile : +64 9 480 4385

Emergency phone number : 0800 243 622 (24 hours)

Product Name	Calcium Chloride Dihydrate		
Product Code	1750		
CAS No.	10035-04-8		

Recommended use : Laboratory Investigations

#### 2: Hazard's identification

#### 2.1 GHS Classification

Eye irritation (Category A), , H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 GHS Label elements, including precautionary statements

Pictogram

Signal word Warning

#### Hazard statement(s)

H319 Causes serious eye irritation.

#### Precautionary statement(s)

#### **Prevention**

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves/ eye protection/ face protection.

# Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes.

Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/ attention.

# 2.3 Other hazards - none

# 3: Composition/information on ingredients

# 3.1 Substances

Formula: CaCl2 · 2H2O

Molecular weight: 147.01 g/mol

**Hazardous ingredients** 

Component	Classification	Concentration
Calcium chloride dihydrate		
	6.4 A; H319	<= 100 %

#### 4: First aid measures

# 4.1 Description of first-aid measures

#### General advice

Show this material safety data sheet to the doctor in attendance.

#### If inhaled

After inhalation: fresh air.

#### In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

# In case of eye contact

After eye contact: rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses.

#### If swallowed

After swallowing: immediately make victim drink water (two glasses at most). Consult a physician.

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

The most important known symptoms and effects are described in the labelling

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

No data available

# 5: Firefighting measures

# 5.1 Extinguishing media

Suitable extinguishing media

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

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

# 5.2 Special hazards arising from the substance or mixture

Hydrogen chloride gas

Calcium oxide

Not combustible.

Ambient fire may liberate hazardous vapours.

#### 5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

#### **5.4 Further information**

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire

extinguishing water from contaminating surface water or the ground water system.

#### 6: Accidental release measures

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

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

# **6.2 Environmental precautions**

Do not let product enter drains.

# 6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

#### 6.4 Reference to other sections

For disposal see section 13.

# 7: Handling and storage

# 7.1 Precautions for safe handling

For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry.

hygroscopic

# 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

#### 8: Exposure controls/personal protection

#### 8.1 Control parameters

#### Ingredients with workplace control parameters

We are not aware of any national exposure limit.

# 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.

#### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's 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 or 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.

# Control of environmental exposure

Do not let product enter drains.

# 9: Physical and chemical properties

(a) Appearance

Physical state : Crystalline Colour : white : Odourless

(c) Odour threshold : no data available

(d) Ph : 4.5- 6.5

(e) Melting point/freezing point : no data available

(f) Initial boiling point and boiling range : 176 °C

(g) Flash point : no data available(h) Evaporation rate : no data available

(i) Flammability (solid, gas) : Product is not flammable

(j) Flammability or explosive limits

Lower explosion limit : no data available
Upper explosion limit : no data available
(k) Vapour pressure : no data available
(l) Vapour density : no data available

(m) Solubility(ies)

Water solubility (g/L) : 1000 g/l

Soluble (g/L) in Ethanol : no data available
(n) Partition coefficient: n-octanol/water : no data available
(o) Auto-ignition temperature : no data available
(p) Decomposition temperature : no data available

(a) Viscosity

Kinematic viscosity : no data available Dynamic : no data available

Other information: : no further relevant information

available

#### 10: Stability and reactivity

#### 10.1 Reactivity

No data available

#### 10.2 Chemical stability

The product is chemically stable under standard ambient conditions (room temperature).

#### 10.3 Possibility of hazardous reactions

Exothermic reaction with:

boron trifluoride

vinylmethyl ether

Water

Generates dangerous gases or fumes in contact with:

Metals

Zinc

#### 10.4 Conditions to avoid

Exposure to moisture may affect product quality. no information available

# 10.5 Incompatible materials

No data available

#### 10.6 Hazardous decomposition products

In the event of fire: see section 5

# 11: Toxicological information

# 11.1 Information on toxicological effects

#### **Acute toxicity**

Symptoms: After uptake of large quantities:, Stomach/intestinal disorders

Symptoms: Possible damages:, mucosal irritations

LD50 Dermal - Rabbit - > 5,000 mg/kg

Remarks: (ECHA)

#### Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation (OECD Test Guideline 404) Remarks: (anhydrous substance)

#### Serious eye damage/eye irritation

Eyes - Rabbit

Result: Eye irritation

(OECD Test Guideline 405)

Remarks: (anhydrous substance) Respiratory or skin sensitization

No data available

#### Germ cell mutagenicity

No data available

Test Type: Ames test

Result: negative

Remarks: (anhydrous substance)

(Lit.)

# Carcinogenicity

No data available

#### Reproductive toxicity

No data available

# Specific target organ toxicity - single exposure

No data available

# Specific target organ toxicity - repeated exposure

No data available

# **Aspiration hazard**

No data available

#### 11.2 Additional Information

RTECS: EV9810000

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

# 12: Ecological information

#### 12.1 Toxicity

Toxicity to fish

LC50 - Lepomis macrochirus (Bluegill sunfish) - 10,650 mg/l - 96 h

Remarks: (anhydrous substance)

(IUCLID)

Toxicity to daphnia and other aquatic invertebrates

EC50 - Daphnia magna (Water flea) - 144 mg/l - 48 h

Remarks: (anhydrous substance)

(IUCLID)

Toxicity to algae

IC50 - algae - 3,130 mg/l - 120 h

Remarks: (anhydrous substance)

(IUCLID)

#### 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

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

Discharge into the environment must be avoided.

#### 13: Disposal considerations

#### 13.1 Waste treatment methods

#### **Product**

Waste material must be disposed of in accordance with the national and local regulations. Leave chemicals in original containers. No mixing with other waste. Handle uncleaned containers like the product itself. See www.retrologistik.com for processes regarding the

return of chemicals and containers, or contact us there if you have further questions.

# 14: Transport Information Table

		ADR/RID – European packaging certification	IMDG International Maritime Dangerous Goods Code	IATA – DGR International Air Travel Association – Dangerous Goods Regulations
14.1	UN Number	-	-	-
14.2	UN Proper	Not dangerous	Not dangerous	Not dangerous
	Shipping name	goods	goods	goods
14.3	Transport	-	-	-
	Hazard Class			
14.4	Packaging group	-	-	-
14.5	Environmental	no	no	no
	Hazards			
14.6	Special			
	precautions for			
	user			
14.7	Incompatible			
	materials			

#### **Further information**

Not classified as dangerous in the meaning of transport regulations.

# 15: Regulatory information

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

#### **National regulatory information**

HSNO Approval Code: HSR003389

HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals and Reagent Kits

Group Standard 2006

Tracking Required: not required, not required

Approved Handler Cert.: not required

#### 16: Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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