

### SECTION 1 Identification

#### 1.1. Product identifier

Product form : Mixture  
Product name : TIMACAL  
Product code : I005257 - I005258

#### 1.2. Other means of identification

No additional information available

#### 1.3. Recommended use of the chemical and restrictions on use

Use of the substance/mixture : Fertilizer

#### 1.4. Supplier's details

##### Manufacturer

TIMAC AGRO USA Inc.  
P.O. Box 888 - Route 724 & I-176  
Reading, PA 19607-0888 – USA, PENNSYLVANIA  
T 1-800-545-5474  
[info-fds@roullier.com](mailto:info-fds@roullier.com)

#### 1.5. Emergency phone number

Country/Area	Organization/Company	Address	Emergency number	Comment
Americas	3E		+1-760-476-3962 (Access code : 333021)	(24/7)
USA	USA POISON CONTROL CENTER (24h/7d)		1-800-222-1222	

### SECTION 2 Hazard Identification

#### 2.1. Classification of the substance or mixture

##### GHS US classification

Serious eye damage/eye irritation, Category 2A H319 Causes serious eye irritation.  
Full text of H statements : see section 16

#### 2.2. Label elements

##### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Warning  
Hazard statements (GHS US) : H319 - Causes serious eye irritation  
Precautionary statements (GHS US) : P280 - Wear protective gloves, protective clothing, eye protection.  
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 attention.

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### 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

### 2.4. Hazards not otherwise classified

No additional information available

### 2.5. Unknown acute toxicity

No additional information available

## SECTION 3 Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

Name	Common Name (Synonyms)	Product identifier	%	GHS US classification
Calcium chloride, dihydrate		CAS-No.: 10035-04-8	25 – 50	Eye Irrit. 2A, H319

Full text of hazard classes and H-statements : see section 16

## SECTION 4 First aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures general	: If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Move to fresh air in case of accidental inhalation. Seek medical attention if ill effect develops.
First-aid measures after skin contact	: Wash with water and soap as a precaution. If case of redness or irritation, call a doctor.
First-aid measures after eye contact	: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 minutes minimum). Remove contact lenses, if present and easy to do. Continue rinsing. Consult an ophthalmologist if irritation persists.
First-aid measures after ingestion	: If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting without medical advice. Get medical advice/attention if you feel unwell.

### 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects : see section(s) : 2.1/2.3).

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media	: water, carbon dioxide (CO <sub>2</sub> ), powder and foam. Use extinguishing media appropriate for surrounding fire.
Unsuitable extinguishing media	: None known.

### 5.2. Specific hazards arising from the chemical

Fire hazard	: Not flammable.
Explosion hazard	: No direct explosion hazard.

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Hazardous decomposition products in case of fire : Carbon oxides (CO, CO<sub>2</sub>). Chlorine.

### 5.3. Special protective equipment and precautions for fire-fighters

Precautionary measures fire	: Evacuate area. Eliminate all ignition sources if safe to do so.
Firefighting instructions	: Contain the extinguishing fluids by bunding.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Complete protective clothing. Self-contained breathing apparatus.
Other information	: Relevant water authorities should be notified of any large spillage to water course or drain.

## SECTION 6 Accidental release measures

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

General measures : Evacuate area.

#### For non-emergency personnel

Emergency procedures : Avoid contact with eyes. Evacuate unnecessary personnel. Ventilate spillage area. Only qualified personnel equipped with suitable protective equipment may intervene.

#### For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	: Ventilate area. Stop leak if safe to do so. Dike and contain spill.
Environmental precautions	: Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.

### 6.2. Methods and materials for containment and cleaning up

For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Pump up the product into a suitably labeled spare container. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal.
Other information	: Dispose of materials or solid residues at an authorized site.

For further information refer to section 8: "Exposure controls/personal protection", For further information refer to section 13

## SECTION 7 Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling	: Ensure good ventilation of the work station. Avoid contact with eyes. Use personal protective equipment as required.
Hygiene measures	: Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

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

Technical measures	: The floor of the depot should be impermeable and designed to form a water-tight basin. Comply with applicable regulations.
Storage conditions	: Protect from sunlight. Store in a well-ventilated place. Store closed containers with closure in upper position. Keep out of reach of children.
Incompatible products	: Refer to the detailed list of incompatible materials in section 10 Stability/Reactivity.
Information on mixed storage	: Keep away from food, drink and animal feeding stuffs.
Storage temperature	: 4 – 30 °C Store at ambient temperature. Protect from freezing.
Specific end uses	: see section(s) : 1.2. Relevant identified uses of the substance or mixture and uses advised against).

### SECTION 8 Exposure controls/personal protection

#### 8.1. Control parameters

No additional information available

#### 8.2. Appropriate engineering controls

- Appropriate engineering controls : Ensure good ventilation of the work station. Local exhaust and general ventilation must be adequate to meet exposure standards.
- Environmental exposure controls : Assure that emissions are compliant with all applicable air pollution control regulations. Comply with applicable regulations.

#### 8.3. Individual protection measures, such as personal protective equipment

<b>Materials for protective clothing:</b>		
Wear suitable protective clothing		
<b>Eye protection:</b>		
Safety glasses with side guards should be worn to prevent injury from airborne particles and/or other eye contact with this product		
<b>Type</b>	<b>Field of application</b>	<b>Characteristics</b>
Safety glasses	Droplet	With side shields
<b>Skin and body protection:</b>		
Skin protection appropriate to the conditions of use should be provided. In case of repeated or prolonged contact wear gloves		
<b>Type</b>		
Chemically resistant protective gloves		
<b>Respiratory protection:</b>		
No special respiratory protection equipment is recommended under normal conditions of use with adequate ventilation. In case of insufficient ventilation, wear suitable respiratory equipment		
<b>Device</b>	<b>Filter type</b>	<b>Condition</b>
Reusable half mask, Full face mask	ABEK-P3	vapor protection, Mist formation

Personal protective equipment symbol(s):



**Other information:**

See Heading 7 : 7.1. Precautions for safe handling.

### SECTION 9 Physical and chemical properties

#### 9.1. Basic physical and chemical properties

- Physical state : Liquid
- Color : Brown
- Odor : characteristic
- Odor threshold : No data available
- pH : 4.3 – 6.3
- Melting point : No data available
- Freezing point : No data available

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Boiling point	: No data available
Flash point	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Density	: 1.33 kg/l
Solubility	: Soluble.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Viscosity, kinematic	: No data available
Explosion limits	: No data available
Explosive properties	: Product is not explosive.
Oxidizing properties	: Non oxidizing material according to EC criteria.
Particle characteristics	: No data available

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## SECTION 10 Stability and reactivity

### 10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

### 10.2. Chemical stability

Stable under use and storage conditions as recommended in section 7.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

### 10.5. Incompatible materials

Strong oxidizing agents.

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced. In case of fire: See Heading 5.

## SECTION 11 Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity (oral)	: No data available
Acute toxicity (dermal)	: No data available
Acute toxicity (inhalation)	: No data available
Additional information	: Based on available data, the classification criteria are not met

#### Calcium chloride, dihydrate (10035-04-8)

LD50 oral rat	2301 mg/kg
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Calcium chloride, dihydrate (10035-04-8)	
LD50 oral	1000 mg/kg body weight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 401 (Acute Oral Toxicity)
LD50 dermal rabbit	> 5000 mg/kg body weight Animal: rabbit
LC50 Inhalation - Rat	No data available
ATE US (oral)	2301 mg/kg body weight

Skin corrosion/irritation : No data available (Based on available data, the classification criteria are not met)  
pH: 4.3 – 6.3

Calcium chloride, dihydrate (10035-04-8)	
pH	2 – 8 (50 g/l ; 20°C)

Serious eye damage/irritation : Causes serious eye irritation.  
pH: 4.3 – 6.3

Calcium chloride, dihydrate (10035-04-8)	
pH	2 – 8 (50 g/l ; 20°C)

Respiratory or skin sensitization : No data available (Based on available data, the classification criteria are not met)  
Germ cell mutagenicity : No data available (Based on available data, the classification criteria are not met)

Carcinogenicity : No data available (Based on available data, the classification criteria are not met)

Reproductive toxicity : No data available (Based on available data, the classification criteria are not met)  
STOT-single exposure : No data available (Based on available data, the classification criteria are not met)  
STOT-repeated exposure : No data available (Based on available data, the classification criteria are not met)  
Aspiration hazard : No data available (Based on available data, the classification criteria are not met)  
Symptoms/effects : see section(s) : 2.1/2.3).

## SECTION 12 Ecological information

### 12.1. Ecotoxicity

Ecology - general : The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.  
Ecology - water : Do not allow large quantities, as are, to spread into the environment. Do not discharge into drains or rivers.  
Hazardous to the aquatic environment, short-term (acute) : No data available (Based on available data, the classification criteria are not met)  
Hazardous to the aquatic environment, long-term (chronic) : No data available (Based on available data, the classification criteria are not met)

Calcium chloride, dihydrate (10035-04-8)	
LC50 - Fish [1]	4630 mg/l Test organisms (species): Pimephales promelas
EC50 - Crustacea [1]	2400 mg/l
EC50 72h - Algae [1]	2900 mg/l (Pseudokirchneriella subcapitata ; (OECD 201 method))
LOEC (chronic)	240 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC (chronic)	481 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	230 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '25 d'

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### 12.2. Persistence and degradability

#### TIMACAL

Persistence and degradability	Not established.
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#### Calcium chloride, dihydrate (10035-04-8)

Persistence and degradability	Rapidly degradable
Biodegradation	Not applicable

### 12.3. Bioaccumulative potential

#### TIMACAL

Bioaccumulative potential	Bioaccumulation unlikely. No studies of longer duration have been conducted at this time.
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#### Calcium chloride, dihydrate (10035-04-8)

Bioaccumulative potential	Not established.
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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Ozone	: No data available
Fluorinated greenhouse gases	: No
Other information	: No other effects known.

## SECTION 13 Disposal considerations

Regional waste regulation	: Disposal must be done according to official regulations.
Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Discharging into rivers and drains is forbidden.
Additional information	: Do not re-use empty containers.

## SECTION 14 Transport information

In accordance with DOT / TDG / IMDG / IATA

### 14.1. UN number

Not regulated for transport

### 14.2. UN Proper Shipping Name

Proper Shipping Name (DOT)	: Not applicable
Proper Shipping Name (TDG)	: Not applicable
Proper Shipping Name (IMDG)	: Not applicable
Proper Shipping Name (IATA)	: Not applicable

### 14.3. Transport hazard class(es)

#### DOT

Transport hazard class(es) (DOT)	: Not applicable
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### TDG

Transport hazard class(es) (TDG) : Not applicable

### IMDG

Transport hazard class(es) (IMDG) : Not applicable

### IATA

Transport hazard class(es) (IATA) : Not applicable

## 14.4. Packing group

Packing group (DOT) : Not applicable

Packing group (TDG) : Not applicable

Packing group (IMDG) : Not applicable

Packing group (IATA) : Not applicable

## 14.5. Environmental hazards

Other information : No supplementary information available.

## 14.6. Transport in bulk

Not applicable

## 14.7. Special precautions for user

### DOT

No data available

### TDG

No data available

### IMDG

No data available

### IATA

No data available

## SECTION 15 Regulatory information

### 15.1. Federal regulations

Commercial status of components according to the United States Environmental Protection Agency's Toxic Substances Control Act (TSCA):

Name	CAS-No.	Listing	Commercial status	Flags
Calcium chloride, dihydrate	10035-04-8	Present	Active	

### 15.2. International regulations

#### CANADA

##### Calcium chloride, dihydrate (10035-04-8)

Listed on the Canadian DSL (Domestic Substances List)

#### EU-Regulations

No additional information available



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### National regulations

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Ensure all national/local regulations are observed

### 15.3. State regulations

No additional information available

## SECTION 16 Other information

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date : 9/9/2025

Issue date : 4/23/2015

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

#### Full text of hazard classes and H-statements

H319	Causes serious eye irritation
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Safety Data Sheet (SDS), USA

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.