

# SAFETY DATA SHEET

## 1. IDENTIFICATION

Product identifier

Product Name CalVer ® 2 Calcium Indicator

Other means of identification

Product Code(s) 94799

Safety data sheet number M00005

Recommended use of the chemical and restrictions on use

**Recommended Use** Laboratory reagent. Calcium determination.

Uses advised against None. Restrictions on use None.

Details of the supplier of the safety data sheet

**Manufacturer Address** 

Hach Company P.O.Box 389 Loveland, CO 80539 USA +1(970) 669-3050

Emergency telephone number

+1(303) 623-5716 - 24 Hour Service +1(515)232-2533 - 8am - 4pm CST

## 2. HAZARDS IDENTIFICATION

## Classification

### **Regulatory Status**

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

## Hazards not otherwise classified (HNOC)

Not applicable

#### Label elements

## **Hazard statements**

The product contains no substances which at their given concentration, are considered to be hazardous to health

## Other Hazards Known

May be harmful if swallowed

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Substance Not applicable

**Mixture** 

**Chemical Family** Mixture.

## 4. FIRST AID MEASURES

Description of first aid measures

No hazards which require special first aid measures. Use first aid treatment according to **General advice** 

the nature of the injury.

Inhalation Remove to fresh air.

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

Consult a physician.

Skin contact Wash skin with soap and water.

Clean mouth with water and drink afterwards plenty of water. Ingestion

Most important symptoms and effects, both acute and delayed

**Symptoms** See Section 11 for additional Toxicological Information.

Indication of any immediate medical attention and special treatment needed

Note to physicians 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** Caution: Use of water spray when fighting fire may be inefficient.

Specific hazards arising from the

chemical

No information available.

Chlorides. Sodium monoxide. **Hazardous combustion products** 

Special protective equipment for

fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout

gear.

## 6. ACCIDENTAL RELEASE MEASURES

**U.S. Notice** Only persons properly qualified to respond to an emergency involving hazardous

substances may respond to a spill according to federal regulations (OSHA 29 CFR

1910.120(a)(v)) and per your company's emergency response plan and

guidelines/procedures. See Section 13, Special Instructions for disposal assistance. Outside of the US, only persons properly qualified according to state or local regulations

should respond to a spill involving chemicals.

Personal precautions, protective equipment and emergency procedures

Personal precautions Ensure adequate ventilation.

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Environmental precautions

**Environmental precautions** See 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** Pick up and transfer to properly labeled containers.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## 7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle in accordance with good industrial hygiene and safety practice.

Conditions for safe storage, including any incompatibilities

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

Flammability class Not applicable

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

**Exposure Guidelines**This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies

Appropriate engineering controls

Engineering Controls Showers

Eyewash stations Ventilation systems.

Individual protection measures, such as personal protective equipment

exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hand Protection** Wear suitable gloves.

**Eye/face protection** Wear safety glasses with side shields (or goggles).

**Skin and body protection** No special protective equipment required.

**General Hygiene Considerations** Handle in accordance with good industrial hygiene and safety practice.

Environmental exposure controls Local authorities should be advised if significant spillages cannot be contained. Do not

allow into any sewer, on the ground or into any body of water.

**Thermal hazards** None under normal processing.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

## Information on basic physical and chemical properties

**Physical state** 

Solid

AppearancepowderColorLight pink to lavenderOdorAmineOdor thresholdNo data available

Property Values Remarks • Method

Molecular weight No data available

**pH** 7.9 5% Solution

Melting point/freezing point 274 °C / 525 °F

Boiling point / boiling range No data available

Evaporation rateNot applicableVapor pressureNot applicable

Specific gravity (water = 1 / air = 1) 2.13

Partition Coefficient (n-octanol/water)  $\log K_{ow} \sim -0$ 

**Soil Organic Carbon-Water Partition** 

Coefficient

Vapor density (air = 1)

 $log~K_{oc} \sim 0$ 

Not applicable

Autoignition temperature No data available

**Decomposition temperature** 274 °C / 525 °F

Dynamic viscosityNot applicableKinematic viscosityNot applicable

Solubility(ies)

Water solubility

Water solubility classification	Water solubility	Water Solubility Temperature
Soluble	> 1000 mg/L	25 °C / 77 °F

## Solubility in other solvents

Chemical Name	Solubility classification	<u>Solubility</u>	Solubility Temperature
None reported	No information available	No data available	No information available

## **Other Information**

#### **Metal Corrosivity**

Steel Corrosion RateNot applicableAluminum Corrosion RateNot applicable

## **Volatile Organic Compounds (VOC) Content**

Not applicable

## **Explosive properties**

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Upper explosion limitNo data availableLower explosion limitNo data available

Flammable properties

Flash point Not applicable

Flammability Limit in Air

Upper flammability limit:No data availableLower flammability limit:No data available

Oxidizing properties No data available.

Bulk density

No data available

Particle Size No information available
Particle Size Distribution No information available

## 10. STABILITY AND REACTIVITY

Reactivity

Not applicable.

Chemical stability

**Stability** Stable under normal conditions.

**Explosion data** 

Sensitivity to Mechanical Impact None Sensitivity to Static Discharge None.

Possibility of Hazardous Reactions

Possibility of Hazardous Reactions None under normal processing.

Hazardous polymerization

None under normal processing.

Conditions to avoid

Conditions to avoid None known based on information supplied.

Incompatible materials

**Incompatible materials** Strong oxidizing agents, strong acids, and strong bases.

**Hazardous Decomposition Products** 

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

## Information on Likely Routes of Exposure

**Product Information** 

**Inhalation** No known effect based on information supplied.

Eye contact No known effect based on information supplied.

**Skin contact** No known effect based on information supplied.

**Ingestion** No known effect based on information supplied.

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**Symptoms** No information available.

**Aggravated Medical Conditions** None known. **Toxicologically synergistic** None known.

products

Toxicokinetics, metabolism and No information available.

distribution

**Product Acute Toxicity Data** 

Oral Exposure RouteNo data availableDermal Exposure RouteNo data availableInhalation (Dust/Mist) Exposure RouteNo data availableInhalation (Vapor) Exposure RouteNo data availableInhalation (Gas) Exposure RouteNo data available

#### **Unknown Acute Toxicity**

0% of the mixture consists of ingredient(s) of unknown toxicity.

## **Acute Toxicity Estimations (ATE)**

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

ATEmix (oral)	3,023.00 mg/kg
ATEmix (dermal)	No information available
ATEmix (inhalation-dust/mist)	No information available
ATEmix (inhalation-vapor)	No information available
ATEmix (inhalation-gas)	No information available

## **Ingredient Acute Toxicity Data**

Oral Exposure Route

Dermal Exposure Route

If available, see data below

## Product Specific Target Organ Toxicity Single Exposure Data

Oral Exposure Route

Dermal Exposure Route

Inhalation (Dust/Mist) Exposure Route

Inhalation (Vapor) Exposure Route

Inhalation (Gas) Exposure Route

No data available

No data available

No data available

No data available

## Ingredient Specific Target Organ Toxicity Single Exposure Data

Oral Exposure Route
Dermal Exposure Route
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
Inhalation (Gas) Exposure Route
If available, see data below

## **Aspiration toxicity**

If available, see data below

Kinematic viscosity

Not applicable

#### **Product Skin Corrosion/Irritation Data**

No data available.

## **Ingredient Skin Corrosion/Irritation Data**

If available, see data below

### **Product Serious Eye Damage/Eye Irritation Data**

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No data available.

## Ingredient Eye Damage/Eye Irritation Data

If available, see data below

#### **Sensitization Information**

**Product Sensitization Data** 

No data available. **Skin Sensitization Exposure Route Respiratory Sensitization Exposure Route** No data available.

Ingredient Sensitization Data

**Skin Sensitization Exposure Route** If available, see data below. **Respiratory Sensitization Exposure Route** If available, see data below.

#### **Chronic Toxicity Information**

### Product Specific Target Organ Toxicity Repeat Dose Data

No data available. **Oral Exposure Route Dermal Exposure Route** No data available. Inhalation (Dust/Mist) Exposure Route No data available. Inhalation (Vapor) Exposure Route No data available. Inhalation (Gas) Exposure Route No data available.

#### Ingredient Specific Target Organ Toxicity Repeat Exposure Data

If available, see data below **Oral Exposure Route** If available, see data below **Dermal Exposure Route** Inhalation (Dust/Mist) Exposure Route If available, see data below **Inhalation (Vapor) Exposure Route** If available, see data below If available, see data below Inhalation (Gas) Exposure Route

**Product Carcinogenicity Data** 

**Oral Exposure Route** No data available **Dermal Exposure Route** No data available Inhalation (Dust/Mist) Exposure Route No data available Inhalation (Vapor) Exposure Route No data available Inhalation (Gas) Exposure Route No data available

## **Ingredient Carcinogenicity Data**

#### Legend

ACGIH (American Conference of Governmental Industrial Hygienists)	Does not apply
IARC (International Agency for Research on Cancer)	Does not apply
NTP (National Toxicology Program)	Does not apply
OSHA (Occupational Safety and Health Administration of the US Department of	Does not apply
Labor)	

**Oral Exposure Route** If available, see data below If available, see data below **Dermal Exposure Route** Inhalation (Dust/Mist) Exposure Route If available, see data below Inhalation (Vapor) Exposure Route If available, see data below Inhalation (Gas) Exposure Route If available, see data below

## Product Germ Cell Mutagenicity invitro Data

No data available.

### Ingredient Germ Cell Mutagenicity invitro Data

No data available

## Product Germ Cell Mutagenicity invivo Data

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Oral Exposure RouteNo data availableDermal Exposure RouteNo data availableInhalation (Dust/Mist) Exposure RouteNo data availableInhalation (Vapor) Exposure RouteNo data availableInhalation (Gas) Exposure RouteNo data available

Ingredient Germ Cell Mutagenicity invivo Data

Oral Exposure Route
Dermal Exposure Route
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
Inhalation (Gas) Exposure Route
If available, see data below

**Product Reproductive Toxicity Data** 

Oral Exposure RouteNo data availableDermal Exposure RouteNo data availableInhalation (Dust/Mist) Exposure RouteNo data availableInhalation (Vapor) Exposure RouteNo data availableInhalation (Gas) Exposure RouteNo data available

**Ingredient Reproductive Toxicity Data** 

Oral Exposure Route
Inhalation (Dust/Mist) Exposure Route
Inhalation (Vapor) Exposure Route
Inhalation (Gas) Exposure Route
If available, see data below
Inhalation (Gas) Exposure Route
If available, see data below
If available, see data below

## 12. ECOLOGICAL INFORMATION

### **Ecotoxicity**

Product Ecological Data

**Aquatic toxicity** 

FishNo data availableCrustaceaNo data availableAlgaeNo data available

**Ingredient Ecological Data** 

**Aquatic toxicity** 

Fish If available, see ingredient data below
Crustacea If available, see ingredient data below
Algae If available, see ingredient data below

**Other Information** 

Persistence and degradability

**Product Biodegradability Data** 

No data available.

**Ingredient Biodegradability Data** 

Bioaccumulation

**Product Bioaccumulation Data** 

No data available.

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Partition Coefficient (n-octanol/water)  $\log K_{ow} \sim -0$ 

**Ingredient Bioaccumulation Data** 

**Mobility** 

Soil Organic Carbon-Water Partition Coefficient  $\log K_{oc} \sim 0$ 

Water solubility

	Water solubility classification	<u>Water solubility</u>	Water Solubility Temperature
Γ	Soluble	> 1000 mg/L	25 °C / 77 °F

### Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

#### Waste treatment methods

Waste from residues/unused

products

Dispose of in accordance with local regulations. Dispose of waste in accordance with

environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

Special instructions for disposal

Dilute to 3 to 5 times the volume with cold water. If permitted by regulation. Open cold water tap completely, slowly pour the material to the drain. Allow cold water to run for 5 minutes to completely flush the system. Check with local municipal and state authorities and waste contractors for pertinent local information regarding the proper disposal of chemicals.

## 14. TRANSPORT INFORMATION

U.S. DOT Not regulated

TDG Not regulated

<u>IATA</u> Not regulated

IMDG Not regulated

## **Additional information**

There is a possibility that this product could be contained in a reagent set or kit composed of various compatible dangerous goods. If the item is not in a reagent set or kit, the classification given above applies.

If the item is part of a reagent set or kit the classification would change to the following:

UN3316 Chemical Kit, Hazard Class 9, Packing Group II or III.

If the item is not regulated, the Chemical Kit classification does not apply.

## 15. REGULATORY INFORMATION

**National Inventories** 

TSCA Complies DSL/NDSL Complies

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

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

## **International Inventories**

Complies **EINECS/ELINCS ENCS** Complies **IECSC** Complies **KECL** Complies Complies **PICCS** Complies **TCSI** Complies **AICS** Complies **NZIoC** 

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European 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

TCSI - Taiwan Chemical Substances Inventory

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

## **US 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

## SARA 311/312 Hazard Categories

Acute health hazard No
Chronic Health Hazard No
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

#### **CWA (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)

#### **CFRCLA**

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

## **US State Regulations**

## **California Proposition 65**

This product does not contain any Proposition 65 chemicals

## **U.S. State Right-to-Know Regulations**

## U.S. EPA Label Information

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## 16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

#### **Special Comments**

None

#### **Additional information**

## **Global Automotive Declarable Substance List (GADSL)**

Not applicable

#### NFPA and HMIS Classifications

ſ	NFPA	Health hazards - 0	Flammability - 0	Instability - 0	Physical and Chemical
-				-	Properties -
Ī	HMIS	Health hazards - 0	Flammability - 0	Physical Hazards - 0	Personal protection - X
-					- See section 8 for more
-					information

## Key or legend to abbreviations and acronyms used in the safety data sheet

NIOSH IDLH Immediately Dangerous to Life or Health

ACGIH (American Conference of Governmental Industrial Hygienists)

NDF no data

## <u>Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION</u>

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)

MAC Maximum Allowable Concentration Ceiling Ceiling Limit Value

X Listed Vacated These values have no official status. The only

binding levels of contaminants are those listed in the final OSHA PEL. These lists are for reference purposes only. Please note that some reference state regulations of these "liberated" exposure limits in their state

regulations.

SKN\* Skin designation SKN+ Skin sensitization
RSP+ Respiratory sensitization \*\* Hazard Designation
C Carcinogen R Reproductive toxicant

M mutagen

Prepared By Hach Product Compliance Department

Issue Date 20-Apr-2018

Revision Date 20-Apr-2018

Revision Note None

### **Disclaimer**

USER RESPONSIBILITY: Each user should read and understand this information and incorporate it in individual site safety programs in accordance with applicable hazard communication standards and regulations.

THE INFORMATION CONTAINED HEREIN IS BASED ON DATA CONSIDERED TO BE ACCURATE. HOWEVER, NO WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF.

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**End of Safety Data Sheet** 

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