



**Be Right™**

# SAFETY DATA SHEET

Issue Date 09-Jul-2019

Revision Date 10-Feb-2025

Version 5

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## 1. IDENTIFICATION

### Product identifier

**Product Name** Calcium and Magnesium Indicator Solution

### Other means of identification

**Product Code(s)** 2241832

**Safety data sheet number** M00340

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

**Recommended Use** Indicator for Magnesium. Indicator for calcium.

**Uses advised against** Consumer use.

**Restrictions on use** For Laboratory Use Only.

### 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

## 2. HAZARDS IDENTIFICATION

### Classification

#### **Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

|                                   |             |
|-----------------------------------|-------------|
| Skin corrosion/irritation         | Category 2  |
| Serious eye damage/eye irritation | Category 2A |

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

#### **Signal word**

Warning



### **Hazard statements**

EN / EGHS

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H315 - Causes skin irritation  
H319 - Causes serious eye irritation

**Precautionary statements**

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P332 + P313 - If skin irritation occurs: Get medical attention  
P362 - Take off contaminated clothing and wash before reuse  
P280 - Wear protective gloves, protective clothing, eye protection, and face 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

**Other Hazards Known**

None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Substance**

Not applicable

**Mixture**

**Chemical Family** Mixture.  
**Chemical nature** aqueous solution.

Percent ranges are used where confidential product information is applicable.

| Chemical name                                                                                                                  | CAS No.    | Percent Range | HMRIC # |
|--------------------------------------------------------------------------------------------------------------------------------|------------|---------------|---------|
| Propanoic acid                                                                                                                 | 79-09-4    | 1 - 5%        | -       |
| 1-Naphthalenesulfonic acid,<br>3-hydroxy-4-[(2-hydroxy-5-methylphenyl)azo]-, compound with<br>2,2,2-nitriлотris[ethanol] (1:1) | 91698-30-5 | <1%           | -       |

### 4. FIRST AID MEASURES

**Description of first aid measures**

**General advice** Show this safety data sheet to the doctor in attendance.

**Inhalation** Remove to fresh air. Get medical attention immediately if symptoms occur.

**Eye contact** Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. Do not rub affected area.

**Skin contact** Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

**Ingestion** Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

**Self-protection of the first aider** Avoid contact with skin, eyes or clothing.

**Most important symptoms and effects, both acute and delayed**

**Symptoms** Burning sensation.

**Indication of any immediate medical attention and special treatment needed**

**Note to physicians** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

|                                                       |                                                                                                                                    |
|-------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b>                   | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.                            |
| <b>Unsuitable Extinguishing Media</b>                 | Caution: Use of water spray when fighting fire may be inefficient.                                                                 |
| <b>Specific hazards arising from the chemical</b>     | No information available.                                                                                                          |
| <b>Hazardous combustion products</b>                  | This material will not burn.                                                                                                       |
| <b>Special protective equipment for fire-fighters</b> | Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. |

## 6. ACCIDENTAL RELEASE MEASURES

|                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
|--------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>U.S. Notice</b> | 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

|                             |                                                                                                                        |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions</b> | Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required. |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------|

|                          |                                                          |
|--------------------------|----------------------------------------------------------|
| <b>Other Information</b> | Refer to protective measures listed in Sections 7 and 8. |
|--------------------------|----------------------------------------------------------|

### Environmental precautions

|                                  |                                                       |
|----------------------------------|-------------------------------------------------------|
| <b>Environmental precautions</b> | Prevent further leakage or spillage if safe to do so. |
|----------------------------------|-------------------------------------------------------|

### Methods and material for containment and cleaning up

|                                        |                                                                                                                                                                              |
|----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Methods for containment</b>         | Prevent further leakage or spillage if safe to do so.                                                                                                                        |
| <b>Methods for cleaning up</b>         | Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically, placing in appropriate containers for disposal. |
| <b>Prevention of secondary hazards</b> | Clean contaminated objects and areas thoroughly observing environmental regulations.                                                                                         |
| <b>Reference to other sections</b>     | See section 8 for more information. See section 13 for more information.                                                                                                     |

## 7. HANDLING AND STORAGE

### Precautions for safe handling

|                                |                                                                                                                                                                                                                             |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Advice on safe handling</b> | Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. |
|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

### Conditions for safe storage, including any incompatibilities

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**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

| Chemical name                   | ACGIH TLV   | OSHA PEL                                                     | NIOSH                                                                                  |
|---------------------------------|-------------|--------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Propanoic acid<br>CAS#: 79-09-4 | TWA: 10 ppm | (vacated) TWA: 10 ppm<br>(vacated) TWA: 30 mg/m <sup>3</sup> | TWA: 10 ppm<br>TWA: 30 mg/m <sup>3</sup><br>STEL: 15 ppm<br>STEL: 45 mg/m <sup>3</sup> |

### Appropriate engineering controls

#### Engineering Controls

Showers  
Eyewash stations  
Ventilation systems. Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

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

#### Respiratory protection

No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required. Ensure adequate ventilation. Wear breathing apparatus if exposed to vapors/dusts/aerosols.

#### Hand Protection

Wear suitable gloves. Impervious gloves. Barrier creams may help to protect the exposed areas of skin. Gloves must be inspected prior to use. The selected protective gloves have to satisfy the specifications of EU Directive 2016/425 and the standard EN 374 derived from it. Chemical resistant gloves made of butyl rubber or nitrile rubber category III according to EN 374-1:2016.

#### Eye/face protection

If splashes are likely to occur, wear safety glasses with side-shields.

#### Skin and body protection

Wear suitable protective clothing. Long sleeved clothing. Avoid contact with eyes, skin and clothing.

#### General Hygiene Considerations

Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Avoid contact with skin, eyes or clothing.

#### 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.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

**Physical state** Liquid  
**Appearance** aqueous solution  
**Odor** Odorless

**Color** dark red  
**Odor threshold** No data available

### Property

### Values

### Remarks • Method

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**Molecular weight** No data available

**pH** 2.65 @ 20 °C

**Melting point / freezing point** ~ 0 °C / 32 °F

**Initial boiling point and boiling range** 97 °C / 206.6 °F

**Evaporation rate** No data available

**Vapor pressure** 23.702 mm Hg / 3.16 kPa at 25 °C / 77 °F

**Relative vapor density** 0.62

**Specific gravity - VALUE 1** 0.995

**Partition coefficient** Not applicable

**Soil Organic Carbon-Water Partition Coefficient** Not applicable

**Autoignition temperature** No data available

**Decomposition temperature** No data available

**Dynamic viscosity** No data available

**Kinematic viscosity** No data available

**Solubility(ies)**

**Water solubility**

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

**Solubility in other solvents**

| <u>Chemical Name</u> | <u>Solubility classification</u> | <u>Solubility</u> | <u>Solubility Temperature</u> |
|----------------------|----------------------------------|-------------------|-------------------------------|
| Acid                 | Soluble                          | > 1000 mg/L       | 25 °C / 77 °F                 |

**Other information**

**Corrosive to metals**

**Steel Corrosion Rate** 1.07 mm/yr / 0.04 in/yr  
**Aluminum Corrosion Rate** 0.1 mm/yr / 0 in/yr

**Volatile Organic Compounds (VOC) Content**

See ingredients information below

| <b>Chemical name</b>                                                                                                     | <b>CAS No.</b> | <b>Volatile organic compounds (VOC) content</b> | <b>CAA (Clean Air Act)</b> |
|--------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------|----------------------------|
| Propanoic acid                                                                                                           | 79-09-4        | No data available                               | X                          |
| 1-Naphthalenesulfonic acid, 3-hydroxy-4-[(2-hydroxy-5-methylphenyl)azo]-, compound with 2,2,2-nitritotris[ethanol] (1:1) | 91698-30-5     | No data available                               | -                          |

**Explosive properties**

**Upper explosion limit** No data available

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**Lower explosion limit**

No data available

**Flammable properties**

**Flash point**

No data available

**Flammability Limit in Air**

**Upper flammability limit:**

No data available

**Lower flammability limit:**

No data available

**Oxidizing properties**

No data available.

**Bulk density**

No data available

## 10. STABILITY AND REACTIVITY

**Reactivity**

Not applicable.

**Chemical stability**

Stable under normal conditions.

**Explosion data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**Possibility of hazardous reactions**

None under normal processing.

**Hazardous polymerization**

None under normal processing.

**Conditions to avoid**

None known based on information supplied.

**Incompatible materials**

Strong acids. Strong bases. Strong oxidizing agents.

**Hazardous decomposition products**

Heating to decomposition releases toxic fumes of carbon monoxide and carbon dioxide. Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

**Inhalation**

May cause irritation of respiratory tract.

**Eye contact**

Irritating to eyes. Causes serious eye irritation.

**Skin contact**

Causes skin irritation.

**Ingestion**

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Symptoms**

Redness. May cause redness and tearing of the eyes.

**Acute toxicity**

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Based on available data, the classification criteria are not met

**Mixture**

No data available.

**Ingredient Acute Toxicity Data**

Test data reported below.

**Oral Exposure Route**

| Chemical name                               | Endpoint type           | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|---------------------------------------------|-------------------------|---------------|---------------|-----------------------|------------------------------------------------|
| Propanoic acid<br>(1 - 5%)<br>CAS#: 79-09-4 | Rat<br>LD <sub>50</sub> | 2600 mg/kg    | None reported | None reported         | IUCLID                                         |

**Unknown Acute Toxicity**

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

**Acute Toxicity Estimations (ATE)**

|                               |                          |
|-------------------------------|--------------------------|
| ATEmix (oral)                 | No information available |
| ATEmix (dermal)               | No information available |
| ATEmix (inhalation-dust/mist) | No information available |
| ATEmix (inhalation-vapor)     | No information available |
| ATEmix (inhalation-gas)       | No information available |

**Skin corrosion/irritation**

Classification based on data available for ingredients. Irritating to skin.

**Mixture**

No data available.

**Ingredient Skin Corrosion/Irritation Data**

Test data reported below.

| Chemical name                               | Test method          | Species | Reported dose | Exposure time | Results           | Key literature references and sources for data |
|---------------------------------------------|----------------------|---------|---------------|---------------|-------------------|------------------------------------------------|
| Propanoic acid<br>(1 - 5%)<br>CAS#: 79-09-4 | Open Irritation Test | Rabbit  | 495 mg        | None reported | Corrosive to skin | RTECS                                          |

**Serious eye damage/irritation**

Classification based on data available for ingredients. Irritating to eyes.

**Mixture**

No data available.

**Ingredient Eye Damage/Eye Irritation Data**

Test data reported below.

| Chemical name                               | Test method          | Species | Reported dose | Exposure time | Results           | Key literature references and sources for data |
|---------------------------------------------|----------------------|---------|---------------|---------------|-------------------|------------------------------------------------|
| Propanoic acid<br>(1 - 5%)<br>CAS#: 79-09-4 | Standard Draize Test | Rabbit  | 0.99 mg       | None reported | Corrosive to eyes | RTECS                                          |

**Respiratory or skin sensitization**

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Based on available data, the classification criteria are not met.

**Mixture**

No data available.

**Ingredient Sensitization Data**

Test data reported below.

**Skin Sensitization Exposure Route**

| Chemical name                               | Test method                                 | Species    | Results                               | Key literature references and sources for data |
|---------------------------------------------|---------------------------------------------|------------|---------------------------------------|------------------------------------------------|
| Propanoic acid<br>(1 - 5%)<br>CAS#: 79-09-4 | OECD Test No.<br>406: Skin<br>Sensitization | Guinea pig | Not confirmed to be a skin sensitizer | IUCLID                                         |

**STOT - single exposure**

Based on available data, the classification criteria are not met.

**Mixture**

No data available.

**Ingredient Specific Target Organ Toxicity Single Exposure Data**

No data available.

**STOT - repeated exposure**

Based on available data, the classification criteria are not met.

**Mixture**

No data available.

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

No data available.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Mixture**

No data available.

**Ingredient Carcinogenicity Data**

No data available.

| Chemical name                                                                                                                        | CAS No.    | ACGIH | IARC | NTP | OSHA |
|--------------------------------------------------------------------------------------------------------------------------------------|------------|-------|------|-----|------|
| Propanoic acid                                                                                                                       | 79-09-4    | -     | -    | -   | -    |
| 1-Naphthalenesulfonic acid,<br>3-hydroxy-4-[(2-hydroxy-5-methylphenyl)azo]-,<br>compound with<br>2,2,2-nitrilotris[ethanol]<br>(1:1) | 91698-30-5 | -     | -    | -   | -    |

**Legend**

|                                                                   |                |
|-------------------------------------------------------------------|----------------|
| ACGIH (American Conference of Governmental Industrial Hygienists) | Does not apply |
| NTP (National Toxicology Program)                                 | Does not apply |
| OSHA                                                              | Does not apply |

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

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**Mixture *invitro* Data**

No data available.

**Substance *invitro* Data**

Test data reported below.

| Chemical name                               | Test                       | Cell Strain                   | Reported dose  | Exposure time | Results  | Key literature references and sources for data |
|---------------------------------------------|----------------------------|-------------------------------|----------------|---------------|----------|------------------------------------------------|
| Propanoic acid<br>(1 - 5%)<br>CAS#: 79-09-4 | Mutation in microorganisms | <i>Salmonella typhimurium</i> | 6.667 mg/plate | None reported | Negative | RTECS                                          |

**Mixture *in vivo* Data**

No data available.

**Substance *in vivo* Data**

No data available.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**Mixture**

No data available.

**Ingredient Reproductive Toxicity Data**

No data available.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

## 12. ECOLOGICAL INFORMATION

**Ecotoxicity**

Based on available data, the classification criteria are not met.

**Unknown aquatic toxicity**

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment.

**Mixture**

**Aquatic Acute Toxicity**

No data available.

**Aquatic Chronic Toxicity**

No data available.

**Substance**

**Aquatic Acute Toxicity**

Test data reported below.

**Fish**

| Chemical name                               | Exposure time | Species                    | Endpoint type    | Reported dose | Key literature references and sources for data |
|---------------------------------------------|---------------|----------------------------|------------------|---------------|------------------------------------------------|
| Propanoic acid<br>(1 - 5%)<br>CAS#: 79-09-4 | 96 hours      | <i>Oncorhynchus mykiss</i> | LC <sub>50</sub> | 51.0 mg/L     | IUCLID                                         |

**Crustacea**

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| Chemical name                               | Exposure time | Species              | Endpoint type    | Reported dose | Key literature references and sources for data |
|---------------------------------------------|---------------|----------------------|------------------|---------------|------------------------------------------------|
| Propanoic acid<br>(1 - 5%)<br>CAS#: 79-09-4 | 48 Hours      | <i>Daphnia magna</i> | EC <sub>50</sub> | 45.8 mg/L     | IUCLID                                         |

#### Aquatic Chronic Toxicity

No data available.

#### Persistence and degradability

##### Mixture

No data available.

##### Mixture

No data available.

##### Partition coefficient

Not applicable

#### Mobility

##### Soil Organic Carbon-Water Partition Coefficient

Not applicable

##### 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.

##### US EPA Waste Number

No information available

##### Special instructions for disposal

Adjust to a pH between 6 and 9 with an alkali, such as soda ash or sodium bicarbonate. Open cold water tap completely, slowly pour the reacted material to the drain. Allow cold water to run for 5 minutes to completely flush the system.

### 14. TRANSPORT INFORMATION

##### DOT

Not regulated

##### TDG

Not regulated

##### IATA

Not regulated

##### IMDG

Not regulated

##### Note:

No special precautions necessary.

#### 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:

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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

For inventory status, "complies" means, listed on the inventory, exempted or otherwise complies.

**TSCA** Complies  
**DSL/NDSL** Complies

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

### International Inventories

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

**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

|                                          |     |
|------------------------------------------|-----|
| <b>Acute health hazard</b>               | Yes |
| <b>Chronic Health Hazard</b>             | No  |
| <b>Fire hazard</b>                       | No  |
| <b>Sudden release of pressure hazard</b> | No  |
| <b>Reactive Hazard</b>                   | 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)

| Chemical name             | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|---------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Propanoic acid<br>79-09-4 | 5000 lb                     | -                      | -                         | X                          |

#### CERCLA

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

| Chemical name | Hazardous Substances RQs | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|---------------|--------------------------|----------------|--------------------------|
|---------------|--------------------------|----------------|--------------------------|

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|                           |         |   |                                            |
|---------------------------|---------|---|--------------------------------------------|
| Propanoic acid<br>79-09-4 | 5000 lb | - | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |
|---------------------------|---------|---|--------------------------------------------|

### US State Regulations

#### California Proposition 65

This product does not contain any Proposition 65 chemicals

**IMERC:** Not applicable

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

This product may contain substances regulated by state right-to-know regulations.

| Chemical name             | New Jersey | Massachusetts | Pennsylvania |
|---------------------------|------------|---------------|--------------|
| Propanoic acid<br>79-09-4 | X          | X             | X            |

#### U.S. EPA Label Information

| Chemical name  | FIFRA    | FDA             |
|----------------|----------|-----------------|
| Propanoic acid | 180.0940 | 21 CFR 184.1081 |

## 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

| NFPA | Health hazards - 2 | Flammability - 0 | Instability - 0      | Physical and chemical properties - |
|------|--------------------|------------------|----------------------|------------------------------------|
| HMIS | Health hazards - 2 | Flammability - 0 | Physical hazards - 0 | Personal protection -<br>X<br>- I  |

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

|         |                                                                                             |
|---------|---------------------------------------------------------------------------------------------|
| ACGIH   | ACGIH (American Conference of Governmental Industrial Hygienists)                           |
| ATSDR   | ATSDR (Agency for Toxic Substances and Disease Registry)                                    |
| CCRIS   | CCRIS (Chemical Carcinogenesis Research Information System)                                 |
| CDC     | CDC (Center for Disease Control)                                                            |
| CEPA    | CEPA (Canadian Environmental Protection Agency)                                             |
| CICAD   | CICAD (Concise International Chemical Assessment Documents)                                 |
| ECHA    | ECHA (The European Chemicals Agency)                                                        |
| EEA     | EEA (European Environment Agency)                                                           |
| EPA     | Environmental Protection Agency                                                             |
| ERMA    | ERMA (New Zealand Environmental Risk Management Authority)                                  |
| ECOSARS | Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™     |
| FDA     | FDA (Food & Drug Administration)                                                            |
| GESTIS  | GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance) |
| HSDB    | HSDB (Hazardous Substances Data Bank)                                                       |

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|-------------|-------------------------------------------------------------------------------------|
| INERIS      | INERIS (The National Industrial Environment and Risks Institute)                    |
| IPCS INCHEM | IPCS INCHEM (International Programme on Chemical Safety)                            |
| IUCLID      | IUCLID (The International Uniform Chemical Information Database)                    |
| NITE        | Japan National Institute of Technology and Evaluation (NITE)                        |
| NIH         | NIH (National Institutes of Health)                                                 |
| NIOSH       | NIOSH (National Institute for Occupational Safety and Health)                       |
| LOLI        | LOLI (List of Lists - An International Chemical Regulatory Database)                |
| NDF         | no data                                                                             |
| NICNAS      | Australia National Industrial Chemicals Notification and Assessment Scheme (NICNAS) |
| NIOSH IDLH  | Immediately Dangerous to Life or Health                                             |
| OSHA        | Occupational Safety and Health Administration of the US Department of Labor         |
| PEEN        | PEEN (Pan European Ecological Network)                                              |
| RTECS       | RTECS (Registry of Toxic Effects of Chemical Substances)                            |
| SIDS        | SIDS (Screening Information Dataset) for High Volume Chemicals                      |
| SYKE        | The Finnish Environment Institute (SYKE)                                            |
| USDA        | USDA (United States Department of Agriculture)                                      |
| USDC        | USDC (United States Department of Commerce)                                         |
| WHO         | WHO (World Health Organization)                                                     |

**Legend - Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

|      |                                 |         |                                                                                                                                                                                                                                                                                       |
|------|---------------------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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                         |         |                                                                                                                                                                                                                                                                                       |

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**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.

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**End of Safety Data Sheet**