



Be Right™

# SAFETY DATA SHEET

Issue Date 31-Aug-2020

Revision Date 26-Jan-2024

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## 1. IDENTIFICATION

### Product identifier

**Product Name** TitraVer® Solution (Sodium EDTA) 0.0800 ± 0.0004 M

### Other means of identification

**Product Code(s)** 1436401

**Safety data sheet number** M00343

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

**Recommended Use** Water Analysis. Hardness determination. Standard solution.

**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

## 2. HAZARDS IDENTIFICATION

### Classification

#### **Regulatory Status**

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

Serious eye damage/eye irritation

Category 1

### Hazards not otherwise classified (HNOC)

Not applicable

### Label elements

#### **Signal word**

Danger



### **Hazard statements**

H318 - Causes serious eye damage

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#### Precautionary statements

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

P310 - Immediately call a POISON CENTER or doctor/physician

#### Other Hazards Known

None

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable

#### Mixture

Percent ranges are used where confidential product information is applicable.

| Chemical name    | CAS No  | Percent Range | HMRIC # |
|------------------|---------|---------------|---------|
| Tetrasodium EDTA | 64-02-8 | 1 - 5%        | -       |
| Formaldehyde     | 50-00-0 | <0.1%         | -       |
| Methanol         | 67-56-1 | <0.1%         | -       |

### 4. FIRST AID MEASURES

#### Description of first aid measures

##### General advice

Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.

##### Inhalation

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

##### Eye contact

Get immediate medical advice/attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. 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

#### Suitable Extinguishing Media

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

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|   |  |
|---|--|
| <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

**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** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

**Other Information** Refer to protective measures listed in Sections 7 and 8.

### Environmental precautions

**Environmental precautions** Prevent further leakage or spillage if safe to do so.

### 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** 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.

**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. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product.

### Conditions for safe storage, including any incompatibilities

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

**Flammability class** Not applicable

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Control parameters**

**Exposure Guidelines**

| Chemical name                 | ACGIH TLV   | OSHA PEL   | NIOSH  |
|-------------------------------|---|--|--|
| Formaldehyde<br>CAS#: 50-00-0 | dermal sensitizer;respiratory sensitizer<br>STEL: 0.3 ppm<br>TWA: 0.1 ppm | TWA: 0.75 ppm<br>(vacated) TWA: 3 ppm<br>(vacated) STEL: 10 ppm<br>(vacated) Ceiling: 5 ppm<br>STEL: 2 ppm   | IDLH: 20 ppm<br>Ceiling: 0.1 ppm 15 min<br>TWA: 0.016 ppm  |
| Methanol<br>CAS#: 67-56-1     | STEL: 250 ppm<br>TWA: 200 ppm<br>S*                                       | TWA: 200 ppm<br>TWA: 260 mg/m <sup>3</sup><br>(vacated) TWA: 200 ppm<br>(vacated) TWA: 260 mg/m <sup>3</sup><br>(vacated) STEL: 250 ppm<br>(vacated) STEL: 325 mg/m <sup>3</sup><br>(vacated) SKN* | IDLH: 6000 ppm<br>TWA: 200 ppm<br>TWA: 260 mg/m <sup>3</sup><br>STEL: 250 ppm<br>STEL: 325 mg/m <sup>3</sup> |

**Appropriate engineering controls**

**Engineering Controls**

Showers  
Eyewash stations  
Ventilation systems.

**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.

**Hand Protection**

Wear suitable gloves. 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**

Tight sealing safety goggles.

**Skin and body protection**

Wear suitable protective clothing.

**General Hygiene Considerations**

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

**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

Color

colorless

Odor

Odorless

Odor threshold

No data available

**Property**

**Values**

**Remarks • Method**

Molecular weight

No data available

pH

10.9

@ 20 °C

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**Melting point / freezing point** ~ 0 °C / 32 °F  
**Initial boiling point and boiling range** ~ 100 °C / 212 °F  
**Evaporation rate** 1.06 (water = 1)  
**Vapor pressure** 23.702 mm Hg / 3.16 kPa at 25 °C / 77 °F  
**Relative vapor density** 0.62  
**Specific gravity - VALUE 1** 1.017  
**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**

**Metal Corrosivity**

**Steel Corrosion Rate** No data available  
**Aluminum Corrosion Rate** No data available

**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> |
|----------------------|---------------|---|----------------------------|
| Tetrasodium EDTA     | 64-02-8       | No data available                               | -                          |
| Formaldehyde         | 50-00-0       | No data available                               | X                          |
| Methanol             | 67-56-1       | 100%  | X                          |

**Explosive properties**

**Upper explosion limit** No data available  
**Lower explosion limit** No data available

**Flammable properties**

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**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

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**

Severely irritating to eyes. Causes serious eye damage. May cause burns. May cause irreversible damage to eyes.

**Skin contact**

May cause irritation.

**Ingestion**

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

**Symptoms**

Redness. Burning. May cause blindness.

### Acute toxicity

Based on available data, the classification criteria are not met

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#### Mixture

No data available.

#### Ingredient Acute Toxicity Data

No data available.

| Chemical name                              | Endpoint type           | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|--|-------------------------|---------------|---------------|-----------------------|--|
| Tetrasodium EDTA (1 - 5%)<br>CAS#: 64-02-8 | Rat LD <sub>50</sub>    | 1658 mg/kg    | None reported | None reported         | ERMA   |
| Formaldehyde (<0.1%)<br>CAS#: 50-00-0      | Rat LD <sub>50</sub>    | 100 mg/kg     | None reported | None reported         | GESTIS   |
| Chemical name                              | Endpoint type           | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
| Formaldehyde (<0.1%)<br>CAS#: 50-00-0      | Rabbit LD <sub>50</sub> | 270 mg/kg     | None reported | None reported         | GESTIS   |
| Chemical name                              | Endpoint type           | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
| Formaldehyde (<0.1%)<br>CAS#: 50-00-0      | Rat LC <sub>50</sub>    | 0.578 mg/L    | 4 hours       | None reported         | LOLI   |

#### 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)                 | No information available 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       |

#### Skin corrosion/irritation

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

#### Mixture

No data available.

#### Ingredient Skin Corrosion/Irritation Data

No data available.

| Chemical name                         | Test method  | Species | Reported dose | Exposure time | Results                             | Key literature references and sources for data |
|---------------------------------------|--|---------|---------------|---------------|-------------------------------------|--|
| Formaldehyde (<0.1%)<br>CAS#: 50-00-0 | Standard Draize Test   | Human   | 0.150 mg      | 72 hours      | Corrosive to skin                   | RTECS  |
| Methanol (<0.1%)<br>CAS#: 67-56-1     | OECD Test 439: In Vitro Skin Irritation: Reconstructed Human Epidermis (Rhe) Test Method | Rabbit  | None reported | 20 hours      | Not corrosive or irritating to skin | ECHA   |

#### Serious eye damage/irritation

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Classification based on data available for ingredients. Causes burns. Risk of serious damage to eyes.

**Mixture**

No data available.

**Ingredient Eye Damage/Eye Irritation Data**

No data available.

| Chemical name                         | Test method  | Species | Reported dose | Exposure time | Results                             | Key literature references and sources for data |
|---------------------------------------|--|---------|---------------|---------------|-------------------------------------|--|
| Formaldehyde (<0.1%)<br>CAS#: 50-00-0 | Rinse Test   | Human   | 1 ppm         | 6 minutes     | Corrosive to eyes                   | RTECS  |
| Methanol (<0.1%)<br>CAS#: 67-56-1     | OECD Test 439: In Vitro Skin Irritation: Reconstructed Human Epidermis (Rhe) Test Method | Rabbit  | 0.05 mL       | 24 hours      | Not corrosive or irritating to eyes | ECHA   |

**Respiratory or skin sensitization**

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

**Mixture**

No data available.

**Ingredient Sensitization Data**

No data available.

| Chemical name                         | Test method                           | Species    | Results                                  | Key literature references and sources for data |
|---------------------------------------|---------------------------------------|------------|--|--|
| Formaldehyde (<0.1%)<br>CAS#: 50-00-0 | Patch test                            | Human      | Confirmed to be a skin sensitizer        | ERMA   |
| Methanol (<0.1%)<br>CAS#: 67-56-1     | OECD Test No. 406: Skin Sensitization | Guinea pig | Not confirmed to be a skin sensitizer    | ECHA   |
| Chemical name                         | Test method                           | Species    | Results                                  | Key literature references and sources for data |
| Formaldehyde (<0.1%)<br>CAS#: 50-00-0 | IgE Specific Immune Response Test     | Guinea pig | Confirmed to be a respiratory sensitizer | CICAD  |

**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.

| Chemical name                         | Endpoint type          | Reported dose | Exposure time | Toxicological effects   | Key literature references and sources for data |
|---------------------------------------|------------------------|---------------|---------------|---|--|
| Formaldehyde (<0.1%)<br>CAS#: 50-00-0 | Human LD <sub>Lo</sub> | 70 mg/kg      | None reported | <b>Gastrointestinal<br/>Kidney, Ureter, or Bladder<br/>Liver</b><br>Other changes<br>Ulcerated stomach<br>Other changes | RTECS  |
| Methanol (<0.1%)                      | Human LD <sub>Lo</sub> | 143 mg/kg     | None reported | <b>Lungs, Thorax, or<br/>Respiration</b>  | RTECS  |



| CAS#: 67-56-1                     |                           |               |               | Dyspnea  |  |
|-----------------------------------|---------------------------|---------------|---------------|--|--|
| Chemical name                     | Endpoint type             | Reported dose | Exposure time | Toxicological effects                          | Key literature references and sources for data |
| Methanol (<0.1%)<br>CAS#: 67-56-1 | Human<br>TC <sub>Lo</sub> | 300 mg/L      | None reported | Lungs, Thorax, or Respiration<br>Other changes | RTECS  |

**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.

| Chemical name                         | Endpoint type             | Reported dose | Exposure time | Toxicological effects  | Key literature references and sources for data |
|---------------------------------------|---------------------------|---------------|---------------|--|--|
| Methanol (<0.1%)<br>CAS#: 67-56-1     | Monkey                    | 2340 mg/kg    | 3 days        | None reported  | ECHA   |
| Chemical name                         | Endpoint type             | Reported dose | Exposure time | Toxicological effects  | Key literature references and sources for data |
| Formaldehyde (<0.1%)<br>CAS#: 50-00-0 | Human<br>TC <sub>Lo</sub> | 0.017 mg/L    | 0.5 days      | Eye<br>Lungs, Thorax, or Respiration<br>Lacrimation<br>Other changes | RTECS  |

**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 |
|------------------|---------|-------|---------|-------|------|
| Tetrasodium EDTA | 64-02-8 | -     | -       | -     | -    |
| Formaldehyde     | 50-00-0 | A1    | Group 1 | Known | X    |
| Methanol         | 67-56-1 | -     | -       | -     | -    |

**Legend**

|  |                |
|--|----------------|
| <b>ACGIH (American Conference of Governmental Industrial Hygienists)</b> | Does not apply |
| <b>IARC (International Agency for Research on Cancer)</b>                | Does not apply |
| <b>NTP (National Toxicology Program)</b>                                 | Does not apply |
| <b>OSHA</b>  | Does not apply |

| Chemical name                         | Endpoint type | Reported dose | Exposure time | Toxicological effects | Key literature references and sources for data |
|---------------------------------------|---------------|---------------|---------------|-----------------------|--|
| Formaldehyde (<0.1%)<br>CAS#: 50-00-0 | Rat           | 15 mg/L       | 78 weeks      | Olfaction<br>Tumors   | RTECS  |

**Germ cell mutagenicity**

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

**Mixture invitro Data**

No data available.

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**Substance invitro Data**

No data available.

| Chemical name                     | Test           | Cell Strain      | Reported dose | Exposure time | Results                               | Key literature references and sources for data |
|-----------------------------------|----------------|------------------|---------------|---------------|---------------------------------------|--|
| Methanol (<0.1%)<br>CAS#: 67-56-1 | DNA inhibition | Human lymphocyte | 300 mmol/L    | None reported | Positive test result for mutagenicity | RTECS  |

**Mixture invivo Data**

No data available.

**Substance invivo Data**

No data available.

| Chemical name                         | Test              | Species | Reported dose | Exposure time | Results                               | Key literature references and sources for data |
|---------------------------------------|-------------------|---------|---------------|---------------|---------------------------------------|--|
| Methanol (<0.1%)<br>CAS#: 67-56-1     | DNA damage        | Rat     | 0.405 mg/kg   | None reported | Positive test result for mutagenicity | RTECS  |
| Chemical name                         | Test              | Species | Reported dose | Exposure time | Results                               | Key literature references and sources for data |
| Formaldehyde (<0.1%)<br>CAS#: 50-00-0 | Micronucleus test | Human   | .000985 mg/L  | 8.5 years     | Positive test result for mutagenicity | RTECS  |

**Reproductive toxicity**

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

**Mixture**

No data available.

**Ingredient Reproductive Toxicity Data**

No data available.

| Chemical name                         | Endpoint type        | Reported dose | Exposure time | Toxicological effects   | Key literature references and sources for data |
|---------------------------------------|----------------------|---------------|---------------|---|--|
| Methanol (<0.1%)<br>CAS#: 67-56-1     | Rat TD <sub>Lo</sub> | 4118 mg/kg    | 10 days       | <b>Effects on Embryo or Fetus Specific Developmental Abnormalities</b><br>Ear<br>Eye<br>Fetotoxicity (except death e.g. stunted fetus)<br>Urogenital System | RTECS  |
| Chemical name                         | Endpoint type        | Reported dose | Exposure time | Toxicological effects   | Key literature references and sources for data |
| Methanol (<0.1%)<br>CAS#: 67-56-1     | Rat TC <sub>Lo</sub> | 0.0026 mg/L   | 22 days       | <b>Effects on Embryo or Fetus</b><br>Fetotoxicity (except death e.g. stunted fetus)   | RTECS  |
| Chemical name                         | Endpoint type        | Reported dose | Exposure time | Toxicological effects   | Key literature references and sources for data |
| Formaldehyde (<0.1%)<br>CAS#: 50-00-0 | Rat TC <sub>Lo</sub> | 40 mg/L       | 14 days       | <b>Effects on Embryo or Fetus</b><br>Fetotoxicity (except death e.g. stunted fetus)   | RTECS  |

**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**

No data available.

| Chemical name                            | Exposure time | Species                 | Endpoint type    | Reported dose | Key literature references and sources for data |
|--|---------------|-------------------------|------------------|---------------|--|
| Formaldehyde<br>(<0.1%)<br>CAS#: 50-00-0 | 96 hours      | <i>Morone saxatilis</i> | LC <sub>50</sub> | 6.7 mg/L      | PEEN   |
| Chemical name                            | Exposure time | Species                 | Endpoint type    | Reported dose | Key literature references and sources for data |
| Formaldehyde<br>(<0.1%)<br>CAS#: 50-00-0 | 48 Hours      | <i>Daphnia pulex</i>    | EC <sub>50</sub> | 5.8 mg/L      | PEEN   |

**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.

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US EPA Waste Number U122 U154

| Chemical name           | RCRA | RCRA - Basis for Listing                                      | RCRA - D Series Wastes | RCRA - U Series Wastes |
|-------------------------|------|---|------------------------|------------------------|
| Formaldehyde<br>50-00-0 | U122 | Included in waste streams: K009, K010, K038, K040, K156, K157 | -                      | U122                   |
| Methanol<br>67-56-1     | -    | Included in waste stream: F039                                | -                      | U154                   |

**Special instructions for disposal** Adjust to a pH between 6 and 9 with an acid, such as sulfuric or citric. 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

#### 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

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

##### International Inventories

**EINECS/ELINCS** Complies

**ENCS** Complies

**IECSC** Complies

**KECL** 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

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### 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

| Chemical name                 | SARA 313 - Threshold Values % |
|-------------------------------|-------------------------------|
| Formaldehyde (CAS #: 50-00-0) | 0.1                           |
| Methanol (CAS #: 67-56-1)     | 1.0                           |

#### SARA 311/312 Hazard Categories

|                                   |     |
|-----------------------------------|-----|
| Acute health hazard               | Yes |
| 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)

| Chemical name           | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|-------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Formaldehyde<br>50-00-0 | 100 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)                   |
|-------------------------|--------------------------|----------------|--|
| Formaldehyde<br>50-00-0 | 100 lb                   | 100 lb         | RQ 100 lb final RQ<br>RQ 45.4 kg final RQ  |
| Methanol<br>67-56-1     | 5000 lb                  | -              | RQ 5000 lb final RQ<br>RQ 2270 kg final RQ |

#### U.S. - Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS) - Security Issues

| Chemical name                            | U.S. - Department of Homeland Security - Chemical Facility Anti-Terrorism Standards (CFATS) - Security Issues |
|--|---|
| Formaldehyde<br>(<0.1%)<br>CAS#: 50-00-0 | Release - Toxic (solution)  |

### US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals

| Chemical name                 | California Proposition 65 |
|-------------------------------|---------------------------|
| Formaldehyde (CAS #: 50-00-0) | Carcinogen                |
| Methanol (CAS #: 67-56-1)     | Developmental             |



**WARNING:** This product can expose you to chemicals including Formaldehyde, Methyl alcohol, which are known to the State of California to cause cancer or birth defects or reproductive harm. For more information, go to <http://www.P65Warnings.ca.gov>

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

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

| Chemical name           | New Jersey | Massachusetts | Pennsylvania |
|-------------------------|------------|---------------|--------------|
| Formaldehyde<br>50-00-0 | X          | X             | X            |
| Methanol<br>67-56-1     | X          | X             | X            |

**U.S. EPA Label Information**

| Chemical name    | FIFRA    | FDA |
|------------------|----------|-----|
| Tetrasodium EDTA | 180.0910 | -   |
| Methanol         | 180.0910 | -   |

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

**Special Comments**

None

**Additional information**

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

| Chemical name           | Global Automotive Declarable Substance List Classifications  | Global Automotive Declarable Substance List Thersholds |
|-------------------------|--|--|
| Formaldehyde<br>50-00-0 | Prohibited Substance (FI)<br>Prohibited Substance (LR)<br>Declarable Substance (LR)<br>Declarable Substance (FI) | 0.1 %  |
| Methanol<br>67-56-1     | Declarable Substance (FI)<br>Declarable Substance (LR)<br>Prohibited Substance (FI)<br>Prohibited Substance (LR) | 0.6 %  |

**NFPA and HMIS Classifications**

|             |                           |                         |                             |   |
|-------------|---------------------------|-------------------------|-----------------------------|---|
| <b>NFPA</b> | <b>Health hazards - 3</b> | <b>Flammability - 0</b> | <b>Instability - 0</b>      | <b>Physical and chemical properties -</b> |
| <b>HMIS</b> | <b>Health hazards - 3</b> | <b>Flammability - 0</b> | <b>Physical hazards - 0</b> | <b>Personal protection -</b><br>X<br>-1   |

**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     | EPA (Environmental Protection Agency)   |
| ERMA    | ERMA (New Zealand's Environmental Risk Management Authority)                            |
| ECOSARS | Estimation through ECOSARS v1.11 part of the Estimation Programs Interface (EPI) Suite™ |

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|             |   |
|-------------|---|
| FDA         | FDA (Food & Drug Administration)  |
| GESTIS      | GESTIS (Information System on Hazardous Substances of the German Social Accident Insurance) |
| HSDB        | HSDB (Hazardous Substances Data Bank)   |
| 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        | 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                         |         |   |

**Prepared By** Hach Product Compliance Department

**Issue Date** 31-Aug-2020

**Revision Date** 26-Jan-2024

**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**