



**Be Right™**

# SAFETY DATA SHEET

Issue Date 09-Nov-2021

Revision Date 10-Feb-2025

Version 4.2

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## 1. IDENTIFICATION

### Product identifier

**Product Name** Thymolphthalein Indicator Solution 1 g/l

### Other means of identification

**Product Code(s)** 2185336

**Safety data sheet number** M01105

**UN/ID no** UN1219

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

**Recommended Use** Indicator for pH. Water Analysis.

**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)

|                                                  |             |
|--------------------------------------------------|-------------|
| Flammable liquids                                | Category 2  |
| Serious eye damage/eye irritation                | Category 2A |
| Specific target organ toxicity (single exposure) | Category 3  |
| Chronic aquatic toxicity                         | Category 2  |

#### Hazards not otherwise classified (HNOC)

Not applicable

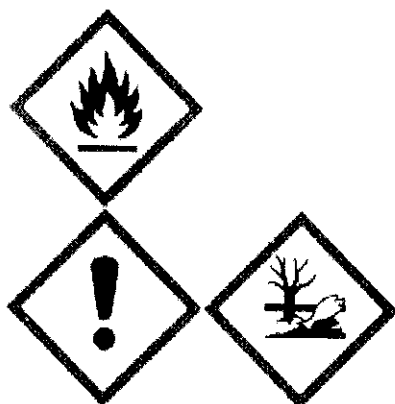
### Label elements

#### **Signal word**

Danger

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#### Hazard statements

H225 - Highly flammable liquid and vapor  
H319 - Causes serious eye irritation  
H336 - May cause drowsiness or dizziness  
H411 - Toxic to aquatic life with long lasting effects

#### Precautionary statements

P264 - Wash face, hands and any exposed skin thoroughly after handling  
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  
P261 - Avoid breathing dust/fume/gas/mist/vapors/spray  
P271 - Use only outdoors or in a well-ventilated area  
P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing  
P312 - Call a POISON CENTER or doctor if you feel unwell  
P403 + P233 - Store in a well-ventilated place. Keep container tightly closed  
P405 - Store locked up  
P501 - Dispose of contents/ container to an approved waste disposal plant  
P273 - Avoid release to the environment  
P391 - Collect spillage  
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P233 - Keep container tightly closed  
P240 - Ground/bond container and receiving equipment  
P241 - Use explosion-proof electrical/ ventilating/ lighting/ equipment  
P242 - Use only non-sparking tools  
P243 - Take precautionary measures against static discharge  
P303 + P361 + P353 - IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish  
P403 + P235 - Store in a well-ventilated place. Keep cool  
P501 - Dispose of contents/container to industrial incineration plant

#### Other Hazards Known

Causes mild skin irritation  
Harmful to aquatic life

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substance

Not applicable

#### Mixture

Chemical Family Mixture.

Percent ranges are used where confidential product information is applicable.

| Chemical name     | CAS No.  | Percent Range | HMRIC # |
|-------------------|----------|---------------|---------|
| Isopropyl alcohol | 67-63-0  | 40 - 50%      | -       |
| Thymolphthalein   | 125-20-2 | <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. IF exposed or concerned: Get medical advice/attention.                                                                                                                                                                                                         |
| Eye contact                        | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. |
| Skin contact                       | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.                                                                                                                                                                               |
| Ingestion                          | Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Call a physician.                                                                                                                       |
| Self-protection of the first aider | Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid contact with skin, eyes or clothing.                                                                                         |

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

|          |                                                                                                                                         |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------|
| Symptoms | Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. |
|----------|-----------------------------------------------------------------------------------------------------------------------------------------|

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

|                    |                        |
|--------------------|------------------------|
| Note to physicians | Treat symptomatically. |
|--------------------|------------------------|

#### 5. FIRE-FIGHTING MEASURES

|                                                |                                                                                                                                                                                                                                                                 |
|------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Suitable Extinguishing Media                   | Dry chemical. Carbon dioxide (CO <sub>2</sub> ). Water spray. Alcohol resistant foam.                                                                                                                                                                           |
| Unsuitable Extinguishing Media                 | Caution: Use of water spray when fighting fire may be inefficient.                                                                                                                                                                                              |
| Specific hazards arising from the chemical     | Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. |
| Hazardous combustion products                  | Carbon monoxide, Carbon dioxide.                                                                                                                                                                                                                                |
| Special protective equipment for fire-fighters | 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** Evacuate personnel to safe areas. Use personal protective equipment as required. See section 8 for more information. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material.

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

#### **Environmental precautions**

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.

#### **Methods and material for containment and cleaning up**

**Methods for containment** Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

**Methods for cleaning up** Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers. 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** Use personal protection equipment. Avoid contact with skin and eyes. Avoid breathing vapors or mists. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. 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. In case of insufficient ventilation, wear suitable respiratory equipment.

#### **Conditions for safe storage, including any incompatibilities**

**Storage Conditions** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with particular national and local regulations.

**Flammability class** Class IB

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure Guidelines

| Chemical name                      | ACGIH TLV                     | OSHA PEL                                                                                                                                                                          | NIOSH                                                                                                         |
|------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| Isopropyl alcohol<br>CAS#: 67-63-0 | TWA: 200 ppm<br>STEL: 400 ppm | TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>(vacated) TWA: 400 ppm<br>(vacated) TWA: 980 mg/m <sup>3</sup><br>(vacated) STEL: 500 ppm<br>(vacated) STEL: 1225 mg/m <sup>3</sup> | IDLH: 2000 ppm<br>TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1225 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. 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

Tight sealing safety goggles.

#### Skin and body protection

Wear suitable protective clothing. Long sleeved clothing. Chemical resistant apron. Antistatic boots. Avoid contact with eyes, skin and clothing.

#### General Hygiene Considerations

Do not eat, drink or smoke when using this product. Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection.

#### 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           | Color          | colorless         |
| Appearance     | aqueous solution | Odor threshold | No data available |
| Odor           | Alcoholic        |                |                   |

| Property                       | Values            | Remarks • Method |
|--------------------------------|-------------------|------------------|
| Molecular weight               | No data available |                  |
| pH                             | 5.3               | @ 20 °C          |
| Melting point / freezing point | -21 °C / -5.8 °F  |                  |

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**Initial boiling point and boiling range** 79 °C / 174.2 °F  
**Evaporation rate** No data available  
**Vapor pressure** 19.427 mm Hg / 2.59 kPa at 25 °C / 77 °F  
**Relative vapor density** 0.89  
**Specific gravity - VALUE 1** 0.915  
**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**

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

**Solubility in other solvents**

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

**Other information**

**Corrosive to metals**

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

**Volatile Organic Compounds (VOC) Content**  
See ingredients information below

| Chemical name     | CAS No.  | Volatile organic compounds (VOC) content | CAA (Clean Air Act) |
|-------------------|----------|------------------------------------------|---------------------|
| Isopropyl alcohol | 67-63-0  | 100%                                     | X                   |
| Thymolphthalein   | 125-20-2 | No data available                        | -                   |

**Explosive properties**

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

**Flammable properties**

**Flash point** 21 °C / 69.8 °F  
**Method** CC (closed cup)

**Flammability Limit in Air**

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|                                  |                    |
|----------------------------------|--------------------|
| <b>Upper flammability limit:</b> | No data available  |
| <b>Lower flammability limit:</b> | No data available  |
| <b>Oxidizing properties</b>      | No data available. |
| <b>Bulk density</b>              | 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** Yes.

### Possibility of hazardous reactions

None under normal processing.

### Hazardous polymerization

None under normal processing.

### Conditions to avoid

Heat, flames and sparks.

### Incompatible materials

Strong oxidizing agents, strong acids, and strong bases. gum.

### Hazardous decomposition products

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

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

|                     |                                                                                                                                                                 |
|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation</b>   | May cause irritation of respiratory tract. May cause drowsiness or dizziness.                                                                                   |
| <b>Eye contact</b>  | Causes serious eye irritation. May cause redness, itching, and pain.                                                                                            |
| <b>Skin contact</b> | May cause irritation. Prolonged contact may cause redness and irritation.                                                                                       |
| <b>Ingestion</b>    | Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.                                                                                 |
| <b>Symptoms</b>     | May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. |

### Acute toxicity

Based on available data, the classification criteria are not met

### 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       |
|-----------------------------------------------|----------------------------|---------------|---------------|------------------------------------------------------------------------------------|------------------------------------------------------|
| Isopropyl alcohol (40 - 50%)<br>CAS#: 67-63-0 | Rat<br>LD <sub>50</sub>    | 4710 mg/kg    | None reported | Behavioral<br>General anesthetic                                                   | OECD 429: Skin Sensitization: Local Lymph Node Assay |
| Chemical name                                 | Endpoint type              | Reported dose | Exposure time | Toxicological effects                                                              | Key literature references and sources for data       |
| Isopropyl alcohol (40 - 50%)<br>CAS#: 67-63-0 | Rabbit<br>LD <sub>50</sub> | 4059 mg/kg    | None reported | None reported                                                                      | LOLI                                                 |
| Chemical name                                 | Endpoint type              | Reported dose | Exposure time | Toxicological effects                                                              | Key literature references and sources for data       |
| Isopropyl alcohol (40 - 50%)<br>CAS#: 67-63-0 | Rat<br>LC <sub>50</sub>    | 72.6 mg/L     | 4 hours       | Behavioral<br>General anesthetic<br>Lungs, Thorax, or Respiration<br>Other changes | RTECS                                                |

#### 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)                 | 10,979.00 mg/kg |
| ATEmix (dermal)               | 99,999.00 mg/kg |
| ATEmix (inhalation-dust/mist) | 99,999.00 mg/l  |
| ATEmix (inhalation-vapor)     | 99,999.00 mg/l  |
| ATEmix (inhalation-gas)       | 99,999.00 ppm   |

#### 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 |
|-----------------------------------------------|------------------------------------------------------------|---------------|---------------|---------------|-------------------------------------|------------------------------------------------|
| Isopropyl alcohol (40 - 50%)<br>CAS#: 67-63-0 | Standard Draize Test                                       | Rabbit        | 500 mg        | None reported | Mild skin irritant                  | RTECS                                          |
| Thymolphthalein (<1%)<br>CAS#: 125-20-2       | QSAR (Quantitative Structure Activity Relationship Models) | None reported | None reported | None reported | Not corrosive or irritating to skin | Toxtree (Ideaconult, Ltd)                      |

#### Serious eye damage/irritation

Classification based on data available for ingredients. Irritating 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 |
|-----------------------------------------------|------------------------------------------------------------|---------------|---------------|---------------|-------------------------------------|------------------------------------------------|
| Isopropyl alcohol (40 - 50%)<br>CAS#: 67-63-0 | Standard Draize Test                                       | Rabbit        | 100 mg        | None reported | Corrosive to eyes                   | RTECS                                          |
| Thymolphthalein (<1%)<br>CAS#: 125-20-2       | QSAR (Quantitative Structure Activity Relationship Models) | None reported | None reported | None reported | Not corrosive or irritating to eyes | Toxtree (Ideaconult, Ltd)                      |

#### **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       |
|-----------------------------------------------|---------------|------------|---------------------------------------|------------------------------------------------------|
| Isopropyl alcohol (40 - 50%)<br>CAS#: 67-63-0 | None reported | Guinea pig | Not confirmed to be a skin sensitizer | OECD 429: Skin Sensitization: Local Lymph Node Assay |

#### **STOT - single exposure**

May cause drowsiness or dizziness.

#### **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 |
|-----------------------------------------------|------------------------|---------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|
| Isopropyl alcohol (40 - 50%)<br>CAS#: 67-63-0 | Human TD <sub>Lo</sub> | 223 mg/kg     | None reported | <b>Behavioral</b><br>Hallucinations, Distorted perceptions<br><b>Cardiac</b><br>Pulse rate decrease with fall in BP<br><b>Vascular</b><br>BP lowering not characterized in autonomic section | RTECS                                          |
| Chemical name                                 | Endpoint type          | Reported dose | Exposure time | Toxicological effects                                                                                                                                                                        | Key literature references and sources for data |
| Isopropyl alcohol (40 - 50%)<br>CAS#: 67-63-0 | Human TC <sub>Lo</sub> | 35 mg/L       | 4 hours       | <b>Cardiac</b><br>Pulse rate decrease with fall in BP<br><b>Lungs, Thorax, or Respiration</b><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.

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#### **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 |
|-------------------|----------|-------|---------|-----|------|
| Isopropyl alcohol | 67-63-0  | -     | Group 3 | -   | X    |
| Thymolphthalein   | 125-20-2 | -     | -       | -   | -    |

#### **Legend**

|                                                                   |                                                            |
|-------------------------------------------------------------------|------------------------------------------------------------|
| ACGIH (American Conference of Governmental Industrial Hygienists) | Does not apply                                             |
| IARC (International Agency for Research on Cancer)                | Group 3 - Not Classifiable as to Carcinogenicity in Humans |
| NTP (National Toxicology Program)                                 | Does not apply                                             |
| OSHA                                                              | X - Present                                                |

#### **Germ cell mutagenicity**

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

#### **Mixture *in vitro* Data**

No data available.

#### **Substance *in vitro* Data**

No data available.

#### **Mixture *in vivo* Data**

No data available.

#### **Substance *in vivo* Data**

No data available.

| Chemical name                                    | Test                 | Species | Reported dose | Exposure time | Results                               | Key literature references and sources for data |
|--------------------------------------------------|----------------------|---------|---------------|---------------|---------------------------------------|------------------------------------------------|
| Isopropyl alcohol<br>(40 - 50%)<br>CAS#: 67-63-0 | Cytogenetic analysis | Rat     | 0.00103 mg/L  | 16 weeks      | 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 |
|--------------------------------------------------|-------------------------|---------------|---------------|----------------------------------------------------------------|------------------------------------------------|
| Isopropyl alcohol<br>(40 - 50%)<br>CAS#: 67-63-0 | Rat<br>TD <sub>Lo</sub> | 32.4 mg/kg    | None reported | Effects on Embryo or Fetus<br>Fetal death                      | RTECS                                          |
| Chemical name                                    | Endpoint type           | Reported dose | Exposure time | Toxicological effects                                          | Key literature references and sources for data |
| Isopropyl alcohol<br>(40 - 50%)<br>CAS#: 67-63-0 | Rat<br>TC <sub>Lo</sub> | 7000 mg/L     | 19 days       | Specific Developmental Abnormalities<br>Musculoskeletal system | RTECS                                          |

#### Aspiration hazard

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

## 12. ECOLOGICAL INFORMATION

#### Ecotoxicity

Harmful to aquatic life with long lasting effects.

#### 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 |
|-----------------------------------------------|---------------|--------------------------------|------------------|---------------|------------------------------------------------|
| Isopropyl alcohol (40 - 50%)<br>CAS#: 67-63-0 | 96 hours      | <i>Pimephales promelas</i>     | LC <sub>50</sub> | 4200 mg/L     | IUCLID                                         |
| Thymolphthalein (<1%)<br>CAS#: 125-20-2       | None reported | None reported                  | LC <sub>50</sub> | 0.022 mg/L    | ECOSARS                                        |
| Chemical name                                 | Exposure time | Species                        | Endpoint type    | Reported dose | Key literature references and sources for data |
| Isopropyl alcohol (40 - 50%)<br>CAS#: 67-63-0 | 48 Hours      | None reported                  | LC <sub>50</sub> | 1400 mg/L     | IUCLID                                         |
| Thymolphthalein (<1%)<br>CAS#: 125-20-2       | None reported | None reported                  | EC <sub>50</sub> | 0.023 mg/L    | ECOSARS                                        |
| Chemical name                                 | Exposure time | Species                        | Endpoint type    | Reported dose | Key literature references and sources for data |
| Isopropyl alcohol (40 - 50%)<br>CAS#: 67-63-0 | 72 Hours      | <i>Scenedesmus subspicatus</i> | EC <sub>50</sub> | > 1000 mg/L   | IUCLID                                         |
| Thymolphthalein (<1%)<br>CAS#: 125-20-2       | None reported | None reported                  | EC <sub>50</sub> | 0.175 mg/L    | ECOSARS                                        |

##### Aquatic Chronic Toxicity

No data available.

#### Persistence and degradability

##### Mixture

No data available.

##### Bioaccumulation

Material does not bioaccumulate

##### Mixture

No data available:

##### Partition coefficient

Not applicable

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#### 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 | Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation. |
| Contaminated packaging              | Empty containers pose a potential fire and explosion hazard. Do not cut, puncture or weld containers.                                                        |
| US EPA Waste Number                 | D001                                                                                                                                                         |

Special instructions for disposal Incinerate material at an E.P.A. approved hazardous waste facility.

### 14. TRANSPORT INFORMATION

#### DOT

|                                 |                      |
|---------------------------------|----------------------|
| UN/ID no                        | UN1219               |
| Proper shipping name            | Isopropanol solution |
| Transport hazard class(es)      | 3                    |
| Packing Group                   | II                   |
| Emergency Response Guide Number | 129                  |

#### TDG

|                            |                      |
|----------------------------|----------------------|
| UN/ID no                   | UN1219               |
| Proper shipping name       | Isopropanol solution |
| Transport hazard class(es) | 3                    |
| Packing Group              | II                   |

#### IATA

|                            |                      |
|----------------------------|----------------------|
| UN number or ID number     | UN1219               |
| Proper shipping name       | Isopropanol solution |
| Transport hazard class(es) | 3                    |
| Packing group              | II                   |
| ERG Code                   | 3L                   |
| Special Provisions         | A180                 |

#### IMDG

|                            |                      |
|----------------------------|----------------------|
| UN number or ID number     | UN1219               |
| Proper shipping name       | Isopropanol solution |
| Transport hazard class(es) | 3                    |
| Packing Group              | II                   |
| EmS-No                     | F-E, S-D             |

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:  
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 Does not comply  
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 contains a chemical or 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 % |
|------------------------------------|-------------------------------|
| Isopropyl alcohol (CAS #: 67-63-0) | 1.0                           |

#### SARA 311/312 Hazard Categories

Acute health hazard Yes  
Chronic Health Hazard No  
Fire hazard Yes  
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)

#### 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

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## US State Regulations

### California Proposition 65

This product does not contain any Proposition 65 chemicals

### 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 |
|------------------------------|------------|---------------|--------------|
| Isopropyl alcohol<br>67-63-0 | X          | X             | X            |

### U.S. EPA Label Information

| Chemical name     | FIFRA    | FDA |
|-------------------|----------|-----|
| Isopropyl alcohol | 180.0950 | -   |

## 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 - 3 | Instability - 0      | Physical and chemical properties - |
|------|--------------------|------------------|----------------------|------------------------------------|
| HMIS | Health hazards - 2 | Flammability - 3 | Physical hazards - 0 | Personal protection -<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         | 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™     |
| 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)                                                         |

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

**Prepared By** Hach Product Compliance Department

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**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

