



VELTEK ASSOCIATES, INC.

DECON-AHOL WFI Formula

Safety Data Sheet

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

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Version: 2.0

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Product name : DECON-AHOL WFI Formula
Product code : VEL-104-NONAEROSOL

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Decontaminant

1.3. Details of the supplier of the safety data sheet

Veltek Associates, Inc.
15 Lee Blvd
Malvern, PA 19355-1234 USA
T +1 610-644-8335 - F +1 610-644-8336
vai@sterile.com

1.4. Emergency telephone number

Emergency number : CARECHEM 24 call: 1-866-928-0789

SECTION 2: Hazards identification

Appearance : Clear liquid.
Emergency overview : WARNING
Flammable liquid and vapor. Causes eye irritation. Prolonged or repeated contact may dry skin and cause irritation. May cause central nervous system effects.
OSHA regulatory status : This product is considered hazardous under 29 CFR 1910.1200 (Hazard Communication).
Potential health effects
Routes of exposure : Inhalation. Ingestion. Skin contact. Eye contact.
Eyes : Causes eye irritation.
Skin : Prolonged or repeated contact may dry skin and cause irritation. Defats the skin.
Inhalation : Vapors may cause drowsiness and dizziness. May cause central nervous system effects.
Ingestion : Swallowing or vomiting of the liquid may result in aspiration into the lungs. Be aware that symptoms of chemical pneumonia (shortness of breath) may occur several hours after exposure.
Target organs : Eyes. Skin. Respiratory system. Central nervous system.
Chronic effects : None known.
Signs and symptoms : Corneal damage. Conjunctivitis. Defatting of the skin. Rash. Irritation. Symptoms can include irritation, redness, scratching of the cornea, and tearing. Drowsiness and dizziness.
Potential environmental effects : The product components are not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

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3.2. Mixture

| Name | Product identifier | % |
|-------------|--------------------|-------------|
| Propan-2-ol | (CAS No) 67-63-0 | 68.0 – 72.0 |

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures general | : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible). |
| First-aid measures after inhalation | : Remove to fresh air and keep at rest in a position comfortable for breathing. If symptoms develop obtain medical attention. |
| First-aid measures after skin contact | : Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. If symptoms develop obtain medical attention. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If symptoms develop obtain medical attention. |
| First-aid measures after ingestion | : Get immediate medical attention. Rinse mouth. Do NOT induce vomiting. Do not give an unconscious person anything to drink. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|--------------------------------------|--|
| Symptoms/injuries after inhalation | : May cause drowsiness or dizziness. |
| Symptoms/injuries after skin contact | : Repeated and/or prolonged skin contact may cause irritation. |
| Symptoms/injuries after eye contact | : Causes eye irritation. |

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|---|
| suitable extinguishing media | : Dry powder. Carbon dioxide. Alcohol resistant foam. |
| Unsuitable extinguishing media | : Do not use a heavy water stream. |

5.2. Special hazards arising from the substance or mixture

| | |
|------------------|--|
| Fire hazard | : Highly flammable liquid and vapor. |
| Explosion hazard | : May form flammable/combustible vapour-air mixture when heated. |
| Reactivity | : Stable under normal conditions. |

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Firefighting instructions | : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. Use self-contained breathing apparatus when in close proximity to fire. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|---|
| General measures | : Remove ignition sources. Ensure adequate ventilation. |
|------------------|---|

6.1.1. For non-emergency personnel

| | |
|----------------------|-----------------------------------|
| Emergency procedures | : Evacuate unnecessary personnel. |
|----------------------|-----------------------------------|

6.1.2. For emergency responders

| | |
|----------------------|--|
| Protective equipment | : Equip cleanup crew with proper protection. |
| Emergency procedures | : Ensure adequate ventilation. Avoid inhalation of vapors. |

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|--|
| Methods for cleaning up | : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials. |
|-------------------------|--|

6.4. Reference to other sections

SECTION 8: Exposure controls/personal protection. SECTION 13: Disposal considerations.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Additional hazards when processed : Handle empty containers with care because residual vapors are flammable.
- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. No naked lights. No smoking. Use only non-sparking tools. Take precautionary measures against static discharge.
- Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

- Technical measures : Keep away from open flames, hot surfaces and sources of ignition.
- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Incompatible materials. Keep in fireproof place. Keep container tightly closed.
- Incompatible products : Strong bases. Strong acids. Sources of ignition. Direct sunlight. Heat sources. Oxidizing materials, combustible materials, halogens, peroxides and metal salts.

7.3. Specific end use(s)

Decontaminant.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Propan-2-ol (67-63-0) | | |
|-----------------------|-------------------------------------|---------------------------|
| USA ACGIH | ACGIH TWA (ppm) | 200 ppm |
| USA ACGIH | ACGIH STEL (ppm) | 400 ppm |
| USA ACGIH | Remark (ACGIH) | Eye & URT irr; CNS impair |
| USA OSHA | OSHA PEL (TWA) (mg/m ³) | 980 mg/m ³ |
| USA OSHA | OSHA PEL (TWA) (ppm) | 400 ppm |

8.2. Exposure controls

- Appropriate engineering controls : Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.
- Personal protective equipment : Avoid all unnecessary exposure. Wash hands thoroughly after handling.
- Hand protection : Wear chemically resistant protective gloves.
- Eye protection : Goggles.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : In case of inadequate ventilation: Use an approved air purifying respirator to control exposure. Follow respirator protection requirements (OSHA 1910.134 and ANSI Z88.2) for all respirator use.
- Thermal hazard protection : Not required for normal conditions of use.
- Environmental exposure controls : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Other information : Do not eat, drink or smoke during use. Do not breathe Vapors. Do not eat, drink or smoke when using this product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Clear.
- Color : Colorless
- Odor : mild;alcohol
- Odor threshold : No data available
- pH : 5.5 - 7.5
- Relative evaporation rate (butyl acetate=1) : No data available
- Melting point : Not applicable
- Freezing point : Not applicable
- Boiling point : 180.5 °F (82.5 °C)
- Flash point : 18.3 °F (64.9 °F)

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| | |
|---------------------------------|--------------------------------------|
| Self ignition temperature | : 750.2 °F (399 °C) |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapor pressure | : 3.7 - 4.1 kPa @ 20°C (Propan-2-ol) |
| Relative vapor density at 20 °C | : 1.6 Relative density, gas (air=1) |
| Relative density | : No data available |
| Density | : 0.84 - 0.87 g/cm³ |
| Solubility | : Miscible. |
| Log Pow | : No data available |
| Log Kow | : No data available |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : 2.1 cP @ 25°C (Propan-2-ol) |
| Explosive properties | : No data available |
| Oxidizing properties | : No data available |
| Explosive limits | : 2.5 - 12 vol % |

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Combustible when heated.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Open flame.

10.5. Incompatible materials

Strong acids. Strong bases. Oxidizing agents. Halogens. Peroxides. Metallic salts.

10.6. Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

| Propan-2-ol (67-63-0) | |
|----------------------------|--------------|
| LD50 oral rat | 4396 mg/kg |
| LD50 dermal rat | 12800 mg/kg |
| LC50 inhalation rat (mg/l) | 72.6 mg/l/4h |

| | |
|-----------------------------------|--|
| Skin corrosion/irritation | : Not classified pH: 5.5 - 7.5 |
| Serious eye damage/irritation | : Causes serious eye irritation. pH: 5.5 - 7.5 |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified Based on available data, the classification criteria are not met |
| Carcinogenicity | : Not classified |

| Propan-2-ol (67-63-0) | |
|-----------------------|----------------------|
| IARC group | 3 - Not classifiable |

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| | |
|---|--|
| Reproductive toxicity | : Not classified Based on available data, the classification criteria are not met |
| Specific target organ toxicity (single exposure) | : May cause drowsiness or dizziness. |
| Specific target organ toxicity (repeated exposure) | : Not classified Based on available data, the classification criteria are not met |
| Aspiration hazard | : Not classified Based on available data, the classification criteria are not met |
| Potential Adverse human health effects and symptoms | : Harmful if swallowed. |
| Symptoms/injuries after inhalation | : May cause drowsiness or dizziness. |
| Symptoms/injuries after skin contact | : Repeated and/or prolonged skin contact may cause irritation. |
| Symptoms/injuries after eye contact | : Causes eye irritation. |

SECTION 12: Ecological information

12.1. Toxicity

| Propan-2-ol (67-63-0) | |
|------------------------------|------------------------------|
| LC50 fish | 4200 mg/l 96 h |
| LC50 other aquatic organisms | 1400 mg/l 48 h (Crustaceans) |

12.2. Persistence and degradability

| DECON-AHOL WFI Formula | |
|-------------------------------|---------------------|
| Persistence and degradability | Rapidly degradable. |

12.3. Bioaccumulative potential

| DECON-AHOL WFI Formula | |
|---------------------------|--------------------------------|
| Bioaccumulative potential | Low bioaccumulation potential. |

| Propan-2-ol (67-63-0) | |
|-------------------------------------|---|
| Bioconcentration factor (BCF REACH) | 3 |

12.4. Mobility in soil

| DECON-AHOL WFI Formula | |
|------------------------|--------------|
| Ecology - soil | Very mobile. |

12.5. Other adverse effects

| | |
|-------------------|-------------------------------------|
| Other information | : Avoid release to the environment. |
|-------------------|-------------------------------------|

SECTION 13: Disposal considerations

13.1. Waste treatment methods

| | |
|--------------------------------|--|
| Waste disposal recommendations | : Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point. |
| Additional information | : Handle empty containers with care because residual vapors are flammable. |
| Ecology - waste materials | : Avoid release to the environment. |

SECTION 14: Transport information

| | |
|---|---|
| In accordance with DOT | |
| UN-No.(DOT) | : 1219 |
| DOT Proper Shipping Name | : Isopropanol |
| Department of Transportation (DOT) Hazard Classes | : 3 - Class 3 - Flammable and combustible liquid 49 CFR 173.120 |
| Hazard labels (DOT) | : 3 - Flammable liquid |



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| | |
|---|----------------------|
| Packing group (DOT) | : II - Medium Danger |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : 4b;150 |
| DOT Packaging Non Bulk (49 CFR 173.xxx) | : 202 |
| DOT Packaging Bulk (49 CFR 173.xxx) | : 242 |

Transport by sea

| | |
|-----------------------------|--|
| UN-No. (IMDG) | : 1219 |
| Proper Shipping Name (IMDG) | : Isopropanol |
| Class (IMDG) | : 3 - Flammable liquids |
| Packing group (IMDG) | : II - substances presenting medium danger |

Air transport

| | |
|-----------------------------|-------------------------|
| UN-No.(IATA) | : 1219 |
| Proper Shipping Name (IATA) | : Isopropanol |
| Class (IATA) | : 3 - Flammable Liquids |
| Packing group (IATA) | : II - Medium Danger |

SECTION 15: Regulatory information

15.1. US Federal regulations

This chemical is a pesticide product registered by the United States Environmental Protection Agency (68959-2) and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below in Section 16. The pesticide label also includes other important information, including directions for use.

| Propan-2-ol (67-63-0) | |
|--|---------------------------------|
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | |
| Listed on United States SARA Section 313 | |
| SARA Section 311/312 Hazard Classes | Immediate (acute) health hazard |
| Clean Air Act (CAA) Section 112 Hazardous Air Pollutants List | Not regulated |
| US EPCRA (SARA Title III) Section 313 - Toxic Chemical: De minimis concentration | Isopropyl alcohol 1.0% |
| US EPCRA (SARA Title III) Section 313 - Toxic Chemical: Listed substance | Isopropyl alcohol |
| CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4) | Isopropyl alcohol: 100 |
| TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D) | Not regulated |

15.2. International regulations

CANADA

| DECON-AHOL WFI Formula | |
|------------------------|--|
| WHMIS Classification | Class B Division 2 - Flammable Liquid Class D Division 2 Subdivision B - Toxic material causing other toxic effects |

15.2.2. National regulations

No additional information available

| DECON-AHOL WFI Formula |
|--|
| Drug Enforcement Administration (DEA) (21 CFR1308.11-15): Not controlled |

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15.3. US State regulations

US - California Hazardous Substances (Director's): Listed substance
Isopropyl alcohol (CAS 67-63-0) Listed.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance
Not listed.

US - New Jersey RTK - Substances: Listed substance
Isopropyl alcohol (CAS 67-63-0) Listed.

US. Massachusetts RTK - Substance List
Isopropyl alcohol (CAS 67-63-0) Listed.

SECTION 16: Other information

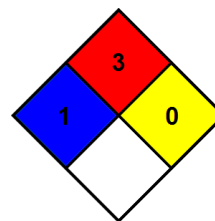
Revision date : 08/18/2014

Other information : This product is registered by the United States Environmental Protection Agency under number 68959-2. The hazard classification assigned by the US EPA is:
DANGER FLAMMABLE
Keep away from heat or open flame.
Store at room temperature below 48.8°C (120°F).

NFPA health hazard : 1 - Exposure could cause irritation but only minor residual injury even if no treatment is given.

NFPA fire hazard : 3 - Liquids and solids that can be ignited under almost all ambient conditions.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating

Health : 1* Slight Hazard - Irritation or minor reversible injury possible,* Chronic Hazard - Chronic (long-term) health effects may result from repeated overexposure

Flammability : 3 Serious Hazard

Physical : 0 Minimal Hazard

Personal Protection : G

SDS US (GHS HazCom 2012)

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