SECTION 1: Identification

1.1. Identification

Product form	:	Mixture
Product name	:	DECON-AHOL® WFI FORMULA
Product code	:	SDS VEL-104-NONAEROSOL

1.2. Recommended use and restrictions on use

Use of the substance/mixture	:	Disinfectant
Restrictions on use	:	For professional use only

1.3. Supplier

Veltek Associates, Inc.
15 Lee Blvd
Malvern, PA 19355-1234 USA
Telephone: +1 610-644-8335 - Fax: +1 610-644-8336
E-mail: vai@sterile.com

In Canada distributed by:
Canada Clean Room (CCR)
20 Cope Dr.
Kanata, ON K2M 2V8, Canada
Telephone: 1-(888)-595-8070

Fisher Scientific
112 Colonnade Road
Ottawa, Ontario, Canada K2E 7L6
Telephone: 1-800-234-7437

VWR International
2360 Argentia Road
Mississauga, Ontario L5N 5Z7
Telephone: 1-800-932-5000

1.4. Emergency telephone number

Emergency number	:	CARECHEM 24: 1-215-207-0061 1-866-928-0789 (toll free) Canada: 1-800-579-7421 (toll free) Mexico: +52-55-5004-8763

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS US classification

Flammable liquids Category 2	H225	Highly flammable liquid and vapor
Serious eye damage/eye irritation Category 2	H319	Causes serious eye irritation
Specific target organ toxicity – Single exposure, Category 3, Narcosis	H336	May cause drowsiness or dizziness

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger

Hazard statements (GHS US) : H225 - Highly flammable liquid and vapor
H319 - Causes serious eye irritation
H336 - May cause drowsiness or dizziness

Precautionary statements (GHS US) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233 - Keep container tightly closed.
P241 - Use explosion-proof electrical, lighting, ventilating equipment.
P242 - Use only non-sparking tools.
P243 - Take precautionary measures against static discharge.
P261 - Avoid breathing vapors.
P264 - Wash hands thoroughly after handling.
P280 - Wear eye protection, protective gloves, protective clothing.
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 - Call a doctor if you feel unwell.
P337+P313 - If eye irritation persists: Get medical advice/attention.
P370+P378 - In case of fire: Use Dry powder, carbon dioxide (CO2), alcohol resistant foam to extinguish.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P235 - Keep cool.
P501 - Dispose of contents/container to an authorized waste collection point.

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS US classification
Propan-2-ol	CAS-No.: 67-63-0	68 – 72	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336

*Chemical name, CAS number and/or exact concentration have been withheld as a trade secret

Full text of hazard classes and H-statements : see section 16

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 person 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 : Remove affected clothing and wash all exposed skin area with mild soap and water, followed by warm water rinse. If symptoms develop, obtain medical attention.

First-aid measures after eye contact : Rinse cautiously with water for several minutes. Ensure that folded skin of eyelids is thoroughly washed with water. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Do NOT induce vomiting. Do not give an unconscious person anything to drink. Rinse mouth. Give 100 - 200 ml of water to drink. Get immediate medical attention. If symptoms develop, obtain medical attention.

4.2. Most important symptoms and effects (acute and delayed)

Potential Adverse human health effects and symptoms : Causes serious eye irritation. Repeated or prolonged contact may cause skin irritation. May cause drowsiness or dizziness. Headache. Fatigue. Nausea. Vomiting. Ingestion may cause irritation of the gastrointestinal tract.

Symptoms/effects after inhalation : May cause drowsiness or dizziness. Headache. Fatigue. Nausea. Vomiting.

Symptoms/effects after skin contact : Repeated and/or prolonged skin contact may cause irritation.

Symptoms/effects after eye contact : Causes serious eye irritation.

Symptoms/effects after ingestion : Ingestion may cause irritation of the gastrointestinal tract.

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Alcohol resistant foam. Dry powder. Carbon dioxide.

Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Specific hazards arising from the chemical

Fire hazard : Highly flammable liquid and vapor. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.

Explosion hazard : May form flammable/explosive vapor-air mixture. Heat may cause pressure rise with explosion of tanks/drums.

Hazardous decomposition products in case of fire : In case of fire product can release: Carbon monoxide. Carbon dioxide.

5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Move containers from fire area if you can do it without risk. Cool closed containers that are near the source of the fire. 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

6.1.1. For non-emergency personnel

Emergency procedures : Remove all sources of ignition. Ventilate area. Avoid inhalation of vapors. Avoid contact with skin, eyes and clothing. Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Use personal protective equipment as required. See Section 8.

Emergency procedures : Remove all sources of ignition. Use only non-sparking tools. Ventilate area. Avoid inhalation of vapors. Avoid contact with eyes, skin and clothing.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

For containment : Stop leak, if possible without risk. Dam up the liquid spill.

Methods for cleaning up : Use non-sparking tools. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.

6.4. Reference to other sections

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

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 : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Use explosion-proof equipment. Use only non-sparking tools. vapors may travel long distances along ground before igniting/flashing back to vapor source. Provide good ventilation in process area to prevent formation of vapor. Avoid inhalation of vapors. Avoid contact with skin, eyes and clothing.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Take off contaminated clothing and wash it before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Proper grounding procedures to avoid static electricity should be followed. Protect from sunlight. Store in a well-ventilated place. Keep container tightly closed. Keep only in original container. Keep cool. Always keep container in upright position. Have appropriate fire extinguishers and spill cleanup equipment in or near storage area. Stored containers should be periodically checked for general condition and leakage.

Incompatible materials : Strong acids. Oxidizing agents. Alkali metals. Aluminum.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Propan-2-ol (67-63-0)	
USA - ACGIH - Occupational Exposure Limits	
Local name	2-Propanol
ACGIH TWA (ppm)	200 ppm
ACGIH STEL (ppm)	400 ppm
Remark (ACGIH)	TLV® Basis: Eye & URT irr; CNS impair. Notations: A4 (Not classifiable as a Human Carcinogen); BEI
Regulatory reference	ACGIH 2022
USA - ACGIH - Biological Exposure Indices	
Local name	2-PROPANOL
BEI (BLV)	40 mg/l Parameter: Acetone - Medium: urine - Sampling time: End of shift at end of workweek - Notations: B, Ns
Regulatory reference	ACGIH 2022
USA - OSHA - Occupational Exposure Limits	
Local name	Isopropyl alcohol
OSHA PEL (TWA) (mg/m³)	980 mg/m³
OSHA PEL (TWA) [2]	400 ppm
Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

8.2. Appropriate engineering controls

Appropriate engineering controls : Provide good ventilation in process area to prevent formation of vapor. Ensure exposure is below occupational exposure limits (where available). Local exhaust ventilation (LEV) may be required to control inhalation exposure. Emergency eye wash stations should be available in the immediate vicinity of any potential exposure if required by regulation.

Environmental exposure controls : Avoid release to the environment.

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:
Wear chemically resistant protective gloves. The exact breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed. Gloves should be removed and replaced if there are any signs of degradation or breakthrough.

Eye protection:
Chemical goggles or safety glasses

Skin and body protection:
Long sleeved clothing

Respiratory protection:
In case of inadequate ventilation wear respiratory protection.

Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Do not eat, drink or smoke during use. Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Appearance	:	Clear.
Color	:	Colorless
Odor	:	Slight alcohol
Odor threshold	:	No data available
pH	:	5.5 – 7.5
Melting point	:	Not applicable
Freezing point	:	Not applicable
Boiling point	:	180.5 °F (82.5 °C)
Flash point	:	70.7 °F (21.5 °C)
Relative evaporation rate (butyl acetate=1)	:	No data available
Flammability (solid, gas)	:	Highly flammable liquid and vapor.
Vapor pressure	:	3.7 – 4.1 kPa (20 °C)(Propan-2-ol)
Relative vapor density at 20 °C	:	1.6 (Air = 1)
Relative density	:	No data available
Density	:	0.84 – 0.87 g/cm³
Solubility	:	Water: Miscible
Log Pow	:	No data available
Auto-ignition temperature	:	750.2 °F (399 °C)
Decomposition temperature	:	No data available
Viscosity, kinematic	:	No data available
Viscosity, dynamic	:	2.1 cP (25 °C)(Propan-2-ol)
Explosion limits	:	2.5 – 12 vol %
Explosive properties	:	Vapors may form explosive mixture with air.
Oxidizing properties	:	Not oxidizing.

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under recommended handling and storage conditions (see section 7). Highly flammable liquid and vapor.

10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

May form flammable/explosive vapor-air mixture. Under fire conditions closed containers may rupture or explode.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Extremely high or low temperatures. Direct sunlight.

10.5. Incompatible materials

Strong acids. Oxidizing agents. Alkali metals. Aluminum.

10.6. Hazardous decomposition products

In case of fire product can release: Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Propan-2-ol (67-63-0)	
LD50 oral, rat	5840 mg/kg (OECD 401 method)
LD50 dermal, rabbit	16.4 ml/kg (OECD 402 method)
LC50 inhalation, rat (ppm)	> 10000 ppm - 6 Hours (OECD 403 method)

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
Carcinogenicity : Not classified

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

Reproductive toxicity : Not classified
STOT-single exposure : May cause drowsiness or dizziness.

Propan-2-ol (67-63-0)	
STOT-single exposure	May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available
Potential Adverse human health effects and symptoms : Causes serious eye irritation. Repeated or prolonged contact may cause skin irritation. May cause drowsiness or dizziness. Headache. Fatigue. Nausea. Vomiting. Ingestion may cause irritation of the gastrointestinal tract.
Symptoms/effects after inhalation : May cause drowsiness or dizziness. Headache. Fatigue. Nausea. Vomiting.
Symptoms/effects after skin contact : Repeated and/or prolonged skin contact may cause irritation.
Symptoms/effects after eye contact : Causes serious eye irritation.
Symptoms/effects after ingestion : Ingestion may cause irritation of the gastrointestinal tract.

SECTION 12: Ecological information

12.1. Toxicity

Propan-2-ol (67-63-0)	
LC50 fish	9640 – 10000 mg/l - 96 Hours (Pimephales promelas), (OECD 203 method)
EC50 Daphnia	> 10000 mg/l - 24 Hours (Daphnia magna, Mobility), (OECD 202 method)
NOEC chronic algae	1800 mg/l - 7 days (Scenedesmus quadricauda)

12.2. Persistence and degradability

DECON-AHOL® WFI FORMULA	
Persistence and degradability	Rapidly degradable.

Propan-2-ol (67-63-0)	
Persistence and degradability	Readily biodegradable.
Biochemical oxygen demand (BOD)	1.19 g O2/g substance - 5 days (Test method EU C.5)
Chemical oxygen demand (COD)	2.23 g O2/g substance (Test method EU C.6)
Biodegradation	53 % - 5 days

12.3. Bioaccumulative potential

DECON-AHOL® WFI FORMULA	
Bioaccumulative potential	Low bioaccumulation potential.

Propan-2-ol (67-63-0)	
Bioconcentration factor (BCF REACH)	3
Log Pow	0.05 (25°C)
Bioaccumulative potential	Based on the n-octanol/water partition coefficient accumulation in organisms is not expected.

12.4. Mobility in soil

DECON-AHOL® WFI FORMULA	
Ecology - soil	Very mobile.

Propan-2-ol (67-63-0)	
Ecology - soil	Miscible with water.

12.5. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Disposal methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

14.1. UN number

DOT NA No : UN1219
UN-No. (TDG) : UN1219
UN-No. (IMDG) : 1219
UN-No. (IATA) : 1219

14.2. UN proper shipping name

Proper Shipping Name (DOT) : Isopropanol
Proper Shipping Name (TDG) : ISOPROPANOL
Proper Shipping Name (IMDG) : ISOPROPANOL (ISOPROPYL ALCOHOL)
Proper Shipping Name (IATA) : Isopropanol

14.3. Transport hazard class(es)

DOT

Transport hazard class(es) (DOT) : 3

Hazard labels (DOT) : 3



TDG

Transport hazard class(es) (TDG) : 3

Hazard labels (TDG) : 3



IMDG

Transport hazard class(es) (IMDG) : 3

Hazard labels (IMDG) : 3



IATA

Transport hazard class(es) (IATA) : 3

Hazard labels (IATA) : 3



14.4. Packing group

Packing group (DOT) : II

Packing group (TDG) : II

Packing group (IMDG) : II

Packing group (IATA) : II

14.5. Environmental hazards

Other information : No supplementary information available.

14.6. Special precautions for user

Special transport precautions : No special precautions required

DOT

UN-No.(DOT) : UN1219

DOT Special Provisions (49 CFR 172.102) : IB2, T4, TP1

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

DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 5 L

DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	:	60 L
DOT Vessel Stowage Location	:	B

TDG

UN-No. (TDG)	:	UN1219
Explosive Limit and Limited Quantity Index	:	1 L
Excepted quantities (TDG)	:	E2
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	:	5 L
Emergency Response Guide (ERG) Number	:	129

IMDG

No data available

IATA

No data available

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

DECON-AHOL® WFI FORMULA	
SARA Section 311/312 Hazard Classes	Physical hazard - Flammable (gases, aerosols, liquids, or solids) Health hazard - Serious eye damage or eye irritation Health hazard - Specific target organ toxicity (single or repeated exposure)
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 KEEP OUT OF REACH OF CHILDREN, DANGER PELIGRO. The pesticide label also includes other important information, including directions for use	

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

Propan-2-ol	CAS-No. 67-63-0	68 – 72%

15.2. International regulations

CANADA

Propan-2-ol (67-63-0)
Listed on the Canadian DSL (Domestic Substances List)

DECON-AHOL® WFI FORMULA
Canada DIN #02351374. In Canada, this product is a drug product registered with Health Canada.

EU-Regulations

No additional information available

National regulations

Propan-2-ol (67-63-0)
Listed on INSQ (Mexican National Inventory of Chemical Substances)

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

Component	State or local regulations
Propan-2-ol(67-63-0)	U.S. - Massachusetts - Right To Know List; U.S. - New Jersey - Right to Know Hazardous Substance List; U.S. - Pennsylvania - RTK (Right to Know) List

SECTION 16: Other information

Revision date : 05/30/2022

Data sources : US OSHA HazCom (GHS) 25 May 2012. ECHA (European Chemicals Agency), http://echa.europa.eu/. NFPA 704, 2022 edition.

Other information : None.

Full text of H-phrases	
H225	Highly flammable liquid and vapor
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

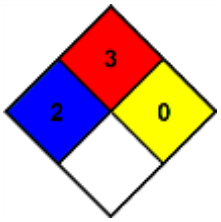
Abbreviations and acronyms	
	ACGIH (American Conference of Government Industrial Hygienists)
	ATE (Acute Toxicity Estimate)
	CAS (Chemical Abstracts Service) number
	EC50 (Effective Concentration 50%)
	IARC (International Agency for Research on Cancer)
	IATA (International Air Transport Association)
	IMDG (International Maritime Dangerous Goods Code)
	IMO (International Maritime Organisation)
	LC50 (Lethal Concentration 50%)

Abbreviations and acronyms	
	LD50 (Lethal Dose 50%)
	NIOSH (National Institute for Occupational Safety and Health)
	OECD (Organisation for Economic Co-operation and Development)
	STEL (Short Term Exposure Limit)
	TLV (Threshold Limit Value) (ACGIH)
	TWA (Time Weighted Average)
	UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)

NFPA health hazard : 2 - Materials that, under emergency conditions, can cause temporary incapacitation or residual injury.

NFPA fire hazard : 3 - Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Indication of changes:			
Section	**Changed item**	**Change**	**Comments**
4	First aid measures	Modified	
5	Fire fighting measures	Modified	
7	Handling and storage	Modified	
8	Exposure controls / Personal protection equipment	Modified	
10	Stability and reactivity	Modified	
15	Regulatory information	Modified	
16	Other information	Modified	

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