



PROCESS2WIPE® IPA70

Safety Data Sheet

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

VELTEK ASSOCIATES, INC.

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SECTION 1: Identification

1.1. Identification

Product form : Mixture
 Product name : PROCESS2WIPE® IPA70
 Product code : SDS VEL-038

1.2. Recommended use and restrictions on use

Use of the substance/mixture : Wipe for removal of contamination on clean room surfaces

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)
 200 Terence Matthews
 Kanata, ONT K2M 2C6, Canada
 Telephone: 888-595-8070

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	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.
 P242 - Use only non-sparking tools.
 P243 - Take precautionary measures against static discharge.
 P261 - Avoid breathing vapors.
 P264 - Wash hands thoroughly after handling.

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P271 - Use only outdoors or in a well-ventilated area.
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
P337+P313 - If eye irritation persists: Get medical advice/attention.
P312 - Call a doctor if you feel unwell.
P370+P378 - In case of fire: Use foam, dry extinguishing powder, carbon dioxide (CO₂), Water spray to extinguish.
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.
P235 - Keep cool.
P405 - Store locked up.
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
Isopropanol	(CAS-No.) 67-63-0	70	Flam. Liq. 2, H225 Eye Irrit. 2A, H319 STOT SE 3, H336

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 : Wash affected skin with plenty of water or 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. Obtain medical attention if pain, blinking or redness persists.

First-aid measures after ingestion : Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. 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. May cause drowsiness or dizziness.

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 : Foam. Dry powder. Carbon dioxide. Water spray.
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 : Vapors may form explosive mixture with air.

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

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5.3. Special protective equipment and precautions for fire-fighters

- Firefighting instructions : Exercise caution when fighting any chemical fire. Keep upwind. Use water spray or fog for cooling exposed containers. Do not allow run-off from fire fighting to enter drains or water courses.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

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 : Wear suitable protective clothing and eye or face protection.
- 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

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if large amounts of the product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

- Methods for cleaning up : Place in a suitable container for disposal in accordance with the waste regulations (see Section 13).

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

- Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Provide good ventilation in process area to prevent formation of vapor. Avoid inhalation of vapors. Avoid contact with skin, eyes and clothing.
- Hygiene measures : Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

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. Keep container tightly closed in a cool, well-ventilated place. Store locked up.
- Incompatible materials : Strong oxidizing agents. Strong acids. alkalis. Peroxides. Alkali metals. Metallic salts. Halogens.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Isopropanol (67-63-0)		
ACGIH	Local name	2-Propanol
ACGIH	ACGIH TWA (ppm)	200 ppm
ACGIH	ACGIH STEL (ppm)	400 ppm
ACGIH	Remark (ACGIH)	Eye & URT irr; CNS impair
ACGIH	Regulatory reference	ACGIH 2018
OSHA	OSHA PEL (TWA) (mg/m ³)	980 mg/m ³
OSHA	OSHA PEL (TWA) (ppm)	400 ppm
OSHA	Regulatory reference (US-OSHA)	OSHA Annotated Table Z-1

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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).
- 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:

Wear goggles or safety glasses with side shields if contact with the eyes is possible

Skin and body protection:

Long sleeved protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Thermal hazard protection:

Not required for normal conditions of use.

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

- Physical state : Liquid
- Appearance : Fabric moistened with liquid.
- Color : White fabric, clear liquid
- Odor : Mild 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 : 64.9 °F (18.3 °C)
- Relative evaporation rate (butyl acetate=1) : No data available
- Flammability (solid, gas) : Not applicable.
- Vapor pressure : 4.41 Pa
- Relative vapor density at 20 °C : 1.6 (air = 1)
- Relative density : 0.84 (Water = 1)
- Solubility : Liquid is miscible with water. Fabric is insoluble.
- 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 : No data available
- Explosion limits : 2.5 - 12 vol % (Isopropyl alcohol)
- Explosive properties : Not explosive. Vapors may form explosive mixture with air.
- Oxidizing properties : Not oxidizing.

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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).

10.2. Chemical stability

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

10.3. Possibility of hazardous reactions

None under normal use.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5. Incompatible materials

Strong oxidizing agents. Strong acids. alkalis. Peroxides. Alkali metals. Metallic salts. Halogens.

10.6. Hazardous decomposition products

Thermal decomposition generates : Carbon dioxide. Carbon monoxide.

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

Isopropanol (67-63-0)	
LD50 oral, rat	5840 mg/kg
LD50 dermal, rat	16400 ml/kg
LC50 inhalation, rat (ppm)	> 10000 ppm - 6 Hours

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

Isopropanol (67-63-0)	
IARC group	3 - Not classifiable

Reproductive toxicity : Not classified
Specific target organ toxicity – single exposure : May cause drowsiness or dizziness.

Isopropanol (67-63-0)	
Specific target organ toxicity – single exposure	May cause drowsiness or dizziness.

Specific target organ toxicity – repeated exposure : Not classified
Aspiration hazard : Not classified
Viscosity, kinematic : No data available
Potential Adverse human health effects and symptoms : Causes serious eye irritation. May cause drowsiness or dizziness.

SECTION 12: Ecological information

12.1. Toxicity

Isopropanol (67-63-0)	
LC50 fish	9640 mg/l - 96 Hours (Pimephales promelas)

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Isopropanol (67-63-0)	
EC50 Daphnia	> 10000 mg/l - 48 Hours (Daphnia magna)
NOEC chronic algae	1800 mg/l - 7 days (Scenedesmus quadricauda)

12.2. Persistence and degradability

Isopropanol (67-63-0)	
Persistence and degradability	Expected to be readily biodegradable.

12.3. Bioaccumulative potential

Isopropanol (67-63-0)	
Bioconcentration factor (BCF REACH)	3

12.4. Mobility in soil

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Ecology - soil	No information available.

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.
Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN3175 Solids containing flammable liquid, n.o.s. (Isopropanol), 4.1, II
UN-No.(DOT) : UN3175
Proper Shipping Name (DOT) : Solids containing flammable liquid, n.o.s. (Isopropanol)
Transport hazard class(es) (DOT) : 4.1 - Class 4.1 - Flammable Solid 49 CFR 173.124
Packing group (DOT) : II - Medium Danger
Hazard labels (DOT) : 4.1 - Flammable solid



DOT Packaging Non Bulk (49 CFR 173.xxx) : 212
DOT Packaging Bulk (49 CFR 173.xxx) : 240
DOT Symbols : G
DOT Special Provisions (49 CFR 172.102) : 47, IB6, IP2, T3, TP33
DOT Packaging Exceptions (49 CFR 173.xxx) : 151
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 15 kg
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 50 kg
DOT Vessel Stowage Location : B
Emergency Response Guide (ERG) Number : 133
Other information : No supplementary information available.
Special transport precautions : No special precautions required.

Transportation of Dangerous Goods

Transport document description : UN3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Isopropanol), 4.1, II

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UN-No. (TDG)	: UN3175
Proper Shipping Name (Transportation of Dangerous Goods)	: SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Isopropanol)
TDG Primary Hazard Classes	: 4.1 - Class 4.1 - Flammable Solids
Packing group	: II - Medium Danger
TDG Special Provisions	: 16, 56
Explosive Limit and Limited Quantity Index	: 1 kg
Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index	: 15 kg

Transport by sea

Transport document description (IMDG)	: UN 3175 SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Isopropanol), 4.1, II
UN-No. (IMDG)	: 3175
Proper Shipping Name (IMDG)	: SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Isopropanol)
Class (IMDG)	: 4.1 - Flammable solids, self-reactive substances and solid desensitized explosives
Packing group (IMDG)	: II - substances presenting medium danger

Air transport

Transport document description (IATA)	: UN 3175 Solids containing flammable liquid, n.o.s. (Isopropanol), 4.1, II
UN-No. (IATA)	: 3175
Proper Shipping Name (IATA)	: Solids containing flammable liquid, n.o.s. (Isopropanol)
Class (IATA)	: 4.1 - Flammable solids
Packing group (IATA)	: II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

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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)
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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.

Isopropanol	CAS-No. 67-63-0	70%
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Isopropanol (67-63-0)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

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
Isopropanol(67-63-0)	U.S. - New Jersey - Right to Know Hazardous Substance List

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SECTION 16: Other information

Revision date : 12/07/2018
Data sources : US OSHA HazCom (GHS) 25 May 2012. 29 CFR 1910.
Other information : This product has isopropyl rubbing alcohol impregnated on a wipe applicator. This SDS represents the chemical.

Full text of H-phrases:

H225	Highly flammable liquid and vapor
H319	Causes serious eye irritation
H336	May cause drowsiness or dizziness

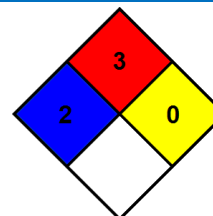
Abbreviations and acronyms:

	ACGIH (American Conference of Government Industrial Hygienists)
	ATE (Acute Toxicity Estimate)
	CAS (Chemical Abstracts Service) number
	DNEL (Derived No Effect Level)
	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%)
	LD50 (Lethal Dose 50%)
	OECD (Organisation for Economic Co-operation and Development)
	OSHA (Occupational Safety and Health Administration) (US)
	PBT (Persistent, Bioaccumulative and Toxic)
	PNEC (Predicted No Effect Concentration)
	STEL (Short Term Exposure Limit)
	TSCA (Toxic Substances Control Act) (US)
	TWA (Time Weighted Average)
	UNxxxx (Number assigned by the United Nations Committee of Experts on the Transport of Dangerous Goods)
	vPvB (very Persistent and very Bioaccumulative)

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.



Hazard Rating

Health : 2 Moderate Hazard - Temporary or minor injury may occur

Flammability : 3 Serious Hazard - Materials capable of ignition under almost all normal temperature conditions. Includes flammable liquids with flash points below 73 F and boiling points above 100 F. as well as liquids with flash points between 73 F and 100 F. (Classes IB & IC)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Indication of changes:

Section	Changed item	Change	Comments
2	Hazards identification	Modified	
3	Composition/Information on ingredients	Modified	
4	First aid measures	Modified	

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5	Fire fighting measures	Modified	
6	Accidental release measures	Modified	
7	Handling and storage	Modified	
8	Exposure controls / Personal protection equipment	Modified	
9	Physical and chemical properties	Modified	
10	Stability and reactivity	Modified	
11	Toxicological information	Modified	
12.	Ecological information	Modified	
14	Transport information	Modified	
15	Regulatory information	Modified	
16	Other information	Modified	

SDS US (GHS HazCom 2012)

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