

# SAFETY DATA SHEET

#### 1. Identification

Product identifier Contec Gallon Bottles containing 100% Isopropyl alcohol (1000FLIQ)

Other means of identification

SDS number 1000FLIQ

Product code SBI28100, SBI28100IR

Recommended use Bottled IPA for critical cleaning.

Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information

Company name Contec, Inc.

Address 525 Locust Grove

Spartanburg, SC 29303

USA

Telephone 1-864-503-8333
Email SDS@contecinc.com

Emergency phone number Call CHEMTREC Day or Night

USA/Canada: 1.800.424.9300

Mexico: 1.800.681.9531

Outside USA/Canada: +1.703.527.3887

#### 2. Hazard identification

Physical hazardsFlammable liquidsCategory 2Health hazardsSerious eye damage/eye irritationCategory 2

Specific target organ toxicity following single Category 3 narcotic effects

exposure

Label elements



Signal word Danger

Hazard statement Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or

dizziness.

**Precautionary statement** 

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

Use non-sparking tools. Take action to prevent static discharges. Avoid breathing mist/vapours. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective

gloves/protective clothing/eye protection/face protection.

Response IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. IF IN

EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE/doctor if

you feel unwell. In case of fire: Use appropriate media to extinguish.

**Storage** Store in a well-ventilated place. Keep container tightly closed. Keep cool.

**Disposal** Dispose of contents/container in accordance with local/regional/national/international regulations.

Supplemental information None.

Other hazards None known.

# 3. Composition/information on ingredients

#### **Substances**

Contec Gallon Bottles containing 100% Isopropyl alcohol (1000FLIQ)
966684 Version #: 01 Revision date: - Issue date: 23-May-2024

% Chemical name Common name and synonyms **CAS** number 67-63-0 100 Isopropyl alcohol

Composition comments

Skin contact

All concentrations are in percent by volume.

#### 4. First-aid measures

Inhalation Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison centre or doctor/physician if you feel unwell.

Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical

attention if irritation develops and persists.

Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if Eve contact present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.

Ingestion Rinse mouth. Get medical attention if symptoms occur.

Most important symptoms/effects, acute and delaved

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause drowsiness or dizziness. Headache. Nausea, vomiting.

Indication of immediate medical attention and special treatment needed

Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area, Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.

**General information** 

Take off all contaminated clothing immediately. Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse.

# 5. Fire-fighting measures

Suitable extinguishing media Unsuitable extinguishing media

Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

May burn with invisible flame. Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread near ground to sources of ignition. Vapours may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed. Carbon oxides. Organic compounds.

Special protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions In case of fire and/or explosion do not breathe fumes. Cool containers exposed to flames with water. Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards Highly flammable liquid and vapour.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Wear appropriate protective equipment and clothing during clean-up. Avoid breathing mist/vapours. Avoid contact with skin, eyes and clothing. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil etc) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. Avoid release to the environment. This product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Wipe up with absorbent material. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

#### **Environmental precautions**

Avoid discharge into drains, water courses or onto the ground.

# 7. Handling and storage

#### Precautions for safe handling

WARNING! Used bottles may catch fire if improperly discarded or stored near ignition sources. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Take precautionary measures against static discharges. Use only in accordance with directions. Avoid breathing mist/vapours. Avoid contact with skin, eyes and clothing. Avoid prolonged exposure. Wear appropriate personal protective equipment. Observe good industrial hygiene practices.

# Conditions for safe storage, including any incompatibilities

Keep away from heat, sparks and open flame. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Keep containers closed when not in use. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see section 10 of the SDS). Keep away from combustible material.

Value

400 ppm

200 ppm

# 8. Exposure controls/personal protection

# Occupational exposure limits

copropyl alcohol ST	rpe FEL	Value
,	EL	100
TV		400 ppm
1 V	VA	200 ppm
omponents Ty	rpe	Value
copropyl alcohol (CAS ST 7-63-0)	ΓEL	400 ppm
TV	VA	200 ppm
anada. Alberta OELs (Occupational Health &	k Safety Code, Schedule 1, Table	e 2), as amended
laterial Ty	/pe	Value
sopropyl alcohol ST	ΓEL	984 mg/m3
		400 ppm
TV	VA	492 mg/m3
		200 ppm
omponents Ty	rpe	Value
copropyl alcohol (CAS ST 7-63-0)	TEL .	984 mg/m3
		400 ppm
TV	VA	492 mg/m3
		200 ppm
anada. British Columbia OELs. (Occupation afety Regulation 296/97, as amended)	al Exposure Limits for Chemical	Substances, Occupational Health and
laterial Ty	уре	Value
sopropyl alcohol ST	ΓEL	400 ppm
TV	VA	200 ppm
omponents Ty	/pe	Value
sopropyl alcohol (CAS ST 7-63-0)	EL	400 ppm
TV	VA	200 ppm
	Worknlace Safety And Health Ac	t), as amended
anada. Manitoba OELs (Reg. 217/2006, The V	ttorkpiace calety Allu Health Ac	
	pe	Value
laterial Ty		

**Type** 

**STEL** 

**TWA** 

Components

67-63-0)

Isopropyl alcohol (CAS

Canada. New Brunswick OELs: Threshold Limit Values (TLVs) Based on the 1991 and 1997 ACGIH TLVs and BEIs	
Publication (New Brunswick Regulation 91-191)	

Material	Туре	Value	
Contec Gallon Bottles containing 100% Isopropyl alcohol (1000FLIQ)	STEL	400 ppm	
	TWA	200 ppm	
Components	Туре	Value	
Isopropyl alcohol (CAS 67-63-0)	STEL	1230 mg/m3	
		500 ppm	
	TWA	983 mg/m3	
		400 ppm	
Canada. Ontario OELs. (Control o			
Material	Туре	Value	
Isopropyl alcohol	STEL	400 ppm	
	TWA	200 ppm	
Components	Туре	Value	
Isopropyl alcohol (CAS 67-63-0)	STEL	400 ppm	
	TWA	200 ppm	
Canada. Quebec OELs. (Ministry d Material	of Labor - Regulation respecting Type	g occupational health and safety) Value	
-			
Material	Туре	Value	
Material	Туре	Value 1230 mg/m3	
Material	Type STEL	<b>Value</b> 1230 mg/m3 500 ppm	
Material	Type STEL	<b>Value</b> 1230 mg/m3 500 ppm 985 mg/m3	
Material Isopropyl alcohol	Type STEL TWA	Value  1230 mg/m3  500 ppm  985 mg/m3  400 ppm	
Material Isopropyl alcohol  Components Isopropyl alcohol (CAS	Type STEL TWA Type	Value  1230 mg/m3  500 ppm  985 mg/m3  400 ppm  Value	
Material Isopropyl alcohol  Components Isopropyl alcohol (CAS	Type STEL TWA Type	Value  1230 mg/m3  500 ppm  985 mg/m3  400 ppm  Value  1230 mg/m3	
Material Isopropyl alcohol  Components Isopropyl alcohol (CAS	Type STEL TWA Type STEL	Value  1230 mg/m3  500 ppm  985 mg/m3  400 ppm  Value  1230 mg/m3  500 ppm	
Material Isopropyl alcohol  Components Isopropyl alcohol (CAS 67-63-0)	Type STEL TWA Type STEL TWA	Value  1230 mg/m3  500 ppm  985 mg/m3  400 ppm  Value  1230 mg/m3  500 ppm  985 mg/m3	
Material Isopropyl alcohol  Components Isopropyl alcohol (CAS 67-63-0)  Canada. Saskatchewan OELs (Oc	Type STEL TWA Type STEL TWA TWA TWA Coupational Health and Safety Recompany STEL	Value  1230 mg/m3  500 ppm  985 mg/m3  400 ppm  Value  1230 mg/m3  500 ppm  985 mg/m3  400 ppm	
Material Isopropyl alcohol  Components Isopropyl alcohol (CAS 67-63-0)  Canada. Saskatchewan OELs (Oc Material	Type STEL TWA Type STEL TWA TWA TWA TWA TWA TUPA TUPA TUPA TUPA TUPA TUPA TUPA	Value  1230 mg/m3  500 ppm  985 mg/m3  400 ppm  Value  1230 mg/m3  500 ppm  985 mg/m3  400 ppm  985 mg/m3  400 ppm  egulations, 1996, Table 21), as amended Value	
Material Isopropyl alcohol  Components Isopropyl alcohol (CAS 67-63-0)  Canada. Saskatchewan OELs (Oc Material	Type STEL TWA Type STEL TWA  TWA  Cupational Health and Safety Recupational Health Accupational Health Accup	Value  1230 mg/m3 500 ppm 985 mg/m3 400 ppm Value  1230 mg/m3 500 ppm 985 mg/m3 400 ppm 985 mg/m3 400 ppm egulations, 1996, Table 21), as amended Value  400 ppm	
Material Isopropyl alcohol  Components Isopropyl alcohol (CAS 67-63-0)  Canada. Saskatchewan OELs (Oc Material Isopropyl alcohol	Type STEL TWA Type STEL TWA  TWA  Cupational Health and Safety Recupational Health Accupational Health Accupation Health	Value  1230 mg/m3  500 ppm  985 mg/m3  400 ppm  Value  1230 mg/m3  500 ppm  985 mg/m3  400 ppm  985 mg/m3  400 ppm  egulations, 1996, Table 21), as amended Value  400 ppm  200 ppm	

# Biol

**ACGIH Biological Exposure Indices (BEI)** 

Material	Value	Determinant	Specimen	Sampling Time
Isopropyl alcohol	40 mg/l	Acetone	Urine	*
Components	Value	Determinant	Specimen	Sampling Time
Isopropyl alcohol (CAS 67-63-0)	40 mg/l	Acetone	Urine	*

<sup>\* -</sup> For sampling details, please see the source document.

Appropriate engineering

controls

Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. Provide eyewash station and safety

Individual protection measures, such as personal protective equipment

Wear safety glasses with side shields (or goggles). Eye/face protection

Skin protection

**Hand protection** Wear appropriate chemical resistant gloves. Take note of the information given by the

manufacturer concerning permeability and break through times, and of special workplace

conditions (mechanical strain, duration of contact).

Recommended materials: Polyethylene. Neoprene. Chlorinated polyethylene (or Chlorosulfonated polyethylene). Natural rubber. Polyvinyl chloride (PVC). Nitrile rubber/Nitrile latex - NBR.. Ethyl

vinyl alcohol laminate ("EVAL").

Unsuitable materials: Polyvinyl alcohol (PVA).

Other Wear suitable protective clothing.

Respiratory protection If engineering controls do not maintain airborne concentrations below recommended exposure

> limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Selection and use of respiratory protective equipment should be in accordance with CSA Standard Z94.4. Check with respiratory

protective equipment suppliers.

Thermal hazards Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

When using do not smoke, Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work

clothing and protective equipment to remove contaminants.

# 9. Physical and chemical properties

**Appearance** 

Liquid. Physical state Liquid. **Form** Colour Colourless. Odour Alcohol-like.

**Odour threshold** Property has not been measured. Property has not been measured. Melting point/freezing point Property has not been measured.

Initial boiling point and boiling range

> 82 - < 89 °C (> 179.6 - < 192.2 °F)

Flash point 20.5 °C (68.9 °F)

**Evaporation rate** Property has not been measured.

Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

2 % Explosive limit - lower (%) Explosive limit - upper

(%)

12 %

43 hPa (32 mm Hg) (20 °C (68 °F)) Vapour pressure Vapour density Property has not been measured.

Relative density 0.872 (20 °C (68 °F))

Solubility(ies)

Solubility (water) Soluble in water.

Not applicable to mixtures. Partition coefficient

(n-octanol/water)

399 °C (750.2 °F) **Auto-ignition temperature** 

**Decomposition temperature** Property has not been measured. **Viscosity** Property has not been measured.

Other information

0.58 mPa.s (75 °C (167 °F)) Dynamic viscosity

**Explosive properties** Not explosive. **Heat of combustion (NFPA** 27.4 kJ/g

30B)

**Kinematic viscosity** Property has not been measured.

Molecular formula C3-H8-O

Molecular weight Not applicable for mixtures.

Oxidising properties Not oxidising.

Particle size Not applicable.

Percent volatile 100 %

Surface tension 20.93 mN/m (25 °C (77 °F))

# 10. Stability and reactivity

**Reactivity**The product is stable and non-reactive under normal conditions of use, storage and transport.

**Chemical stability** Material is stable under normal conditions.

Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

Conditions to avoid Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the

flash point. Contact with incompatible materials. Protect against direct sunlight.

**Incompatible materials** Aldehydes. Halogenated organics. Halogens. Strong acids. Strong oxidising agents.

**Hazardous decomposition** 

products

Combustion may produce: Oxides of carbon and other organic substances.

# 11. Toxicological information

#### Information on likely routes of exposure

Inhalation May cause drowsiness or dizziness. Headache. Nausea, vomiting. Prolonged inhalation may be

harmful.

**Skin contact** Prolonged skin contact may cause temporary irritation.

**Eye contact** Causes serious eye irritation.

**Ingestion** Ingestion may cause irritation and malaise.

Symptoms related to the physical, chemical and toxicological characteristics

Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred

vision. May cause drowsiness or dizziness. Headache. Nausea, vomiting.

# Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components Species Test Results

Isopropyl alcohol (CAS 67-63-0)

Acute Dermal

LD50 Rabbit 12870 mg/kg

Inhalation Vapour

LC50 Rat 72.6 mg/l, 4 hours

Oral

LD50 Rat 4710 mg/kg

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye

irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

**Respiratory sensitisation** Not a respiratory sensitiser.

**Skin sensitisation** This product is not expected to cause skin sensitisation.

**Germ cell mutagenicity**No data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

Contec Gallon Bottles containing 100% Isopropyl alcohol (1000FLIQ) 966684 Version #: 01 Revision date: - Issue date: 23-May-2024

**ACGIH Carcinogens** 

Isopropyl alcohol (CAS 67-63-0) A4 Not classifiable as a human carcinogen.

Canada - Manitoba OELs: carcinogenicity

Isopropyl alcohol (CAS 67-63-0) Not classifiable as a human carcinogen.

IARC Monographs. Overall Evaluation of Carcinogenicity

Isopropyl alcohol (CAS 67-63-0) 3 Not classifiable as to carcinogenicity to humans.

This product is not expected to cause reproductive or developmental effects. Reproductive toxicity

Specific target organ toxicity -

single exposure

May cause drowsiness or dizziness.

Specific target organ toxicity -

repeated exposure

Not classified.

**Aspiration hazard** Not an aspiration hazard.

Frequent or prolonged contact may defat and dry the skin. **Chronic effects** 

# 12. Ecological information

**Ecotoxicity** The product is 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.

**Test Results** Components **Species** Isopropyl alcohol (CAS 67-63-0) **Aquatic** Acute LC50 Crustacea Daphnia magna > 10000 mg/l, 24 hours Fish LC50 Pimephales promelas 9640 mg/l, 96 hours Chronic Crustacea EC50 Daphnia magna > 100 mg/l, 21 days NOEC Daphnia magna 141 mg/l, 16 days 30 mg/l, 21 days

Persistence and degradability No data is available on the degradability of any ingredients in the mixture.

Bioaccumulative potential Bioconcentration potential is low.

Partition coefficient n-octanol / water (log Kow)

Isopropyl alcohol (CAS 67-63-0) 0.05

Mobility in soil Isopropyl alcohol is highly mobile in soil.

Other adverse effects The product contains a volatile organic compound which has a photochemical ozone creation

potential.

## 13. Disposal considerations

**Disposal instructions** Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of

contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations Dispose in accordance with all applicable regulations.

The waste code should be assigned in discussion between the user, the producer and the waste Hazardous waste code

disposal company.

Waste from residues / unused

products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner.

Contaminated packaging Since emptied containers may retain product residue, follow label warnings even after container is

emptied. Empty containers should be taken to an approved waste handling site for recycling or

disposal.

# 14. Transport information

**TDG** 

UN1219 **UN** number Isopropanol **UN proper shipping name** 

Transport hazard class(es)

Class 3 Subsidiary risk Ш Packing group **Environmental hazards** No

Contec Gallon Bottles containing 100% Isopropyl alcohol (1000FLIQ) 966684 Version #: 01 Revision date: -

7/9 Issue date: 23-May-2024

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

IATA

UN number UN1219
UN proper shipping name Isopropanol

Transport hazard class(es)

Class 3
Subsidiary risk Packing group II
Environmental hazards No
ERG Code 3L

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

**IMDG** 

UN number UN1219
UN proper shipping name Isopropanol

Transport hazard class(es)

Class 3

Subsidiary risk 
Packing group ||

Environmental hazards

Marine pollutant No EmS F-E, S-D

Special precautions for user Read safety instructions, SDS and emergency procedures before handling.

Not established.

Transport in bulk according to

Annex II of MARPOL 73/78 and

the IBC Code

# 15. Regulatory information

Canadian regulations This product has been classified in accordance with the hazard criteria of the HPR and the SDS

contains all the information required by the HPR.

**Controlled Drugs and Substances Act** 

Not regulated.

Export Control List (CEPA 1999, Schedule 3)

Not listed

**Greenhouse Gases** 

Not listed.

**Precursor Control Regulations** 

Not regulated.

International regulations

Stockholm Convention

Not applicable.

**Rotterdam Convention** 

Not applicable.

**Kyoto Protocol** 

Not applicable.

**Montreal Protocol** 

Not applicable.

**Basel Convention** 

Not applicable.

# **International Inventories**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Industrial Chemicals (AICIS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes

Country(s) or region On inventory (yes/no)\* Inventory name Europe European List of Notified Chemical Substances (ELINCS) Japan Inventory of Existing and New Chemical Substances (ENCS) Yes Korea Existing Chemicals List (ECL) Yes New Zealand New Zealand Inventory Yes **Philippines** Philippine Inventory of Chemicals and Chemical Substances Yes

(PICCS)

Taiwan Chemical Substance Inventory (TCSI)

United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory

Yes

#### 16. Other information

Issue date 23-May-2024

Revision date - Version No. 01

**Further information** X - Ask Supervisor Further contact:

MacIsaac & Associates

440 Gloucester Street, Suite 2111 Ottawa, Ontario, K1R 7T8 Canada

+1 (613) 236-2250

**List of abbreviations** EC50: Effective Concentration, 50%.

IATA: International Air Transport Association.

IBC Code: International Code for the Construction and Equipment of Ships Carrying Dangerous

Chemicals in Bulk.

IMDG: International Maritime Dangerous Goods.

LC50: Lethal Concentration, 50%.

LD50: Lethal Dose, 50%.

MARPOL: International Convention for the Prevention of Pollution from Ships.

NOEC: No Observed Effect Concentration.

STEL: Short-Term Exposure Limit.

TDG: Transportation of Dangerous Goods. TWA: Time Weighed Average Value.

**Disclaimer**Contec, Inc. cannot anticipate all conditions under which this information and its product, or the

products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the

sheet was written based on the best knowledge and experience currently available.

Contec Gallon Bottles containing 100% Isopropyl alcohol (1000FLIQ) 966684 Version #: 01 Revision date: - Issue date: 23-May-2024

<sup>\*</sup>A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).