

Isopropyl Alcohol

323-1L

Version 1.0 Revision Date 02/16/2018 Print Date 02/16/2018

SECTION 1. IDENTIFICATION

Product name : Isopropyl Alcohol

Number : 000000022794

Product Use Description : Solvent

Manufacturer or supplier's

details

Manufactured by:

Honeywell International Inc. 1953 South Harvey Street Muskegon, MI 49442

USA

Distributed by: VWR International 2360 Argentia Road

Mississauga, Ontario L5N 5Z7

CANADA

For more information call : 1-800-932-5000

(Monday-Friday, 9:00am-5:00pm)

In case of emergency call : Medical: 1-800-498-5701 or +1-303-389-1414

Transportation (CHEMTREC): 1-800-424-9300 or

+1-703-527-3887

: (24 hours/day, 7 days/week)

SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form : liquid

Color : colourless

Odor : slight alcohol-like

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Classification of the substance or mixture

or mixture

Classification of the substance : Flammable liquids, Category 2 Eve irritation, Category 2A

Specific target organ toxicity - single exposure, Category 3,

Central nervous system

GHS Label elements, including precautionary statements

Symbol(s)





Signal word : Danger

Hazard statements : Highly flammable liquid and vapour.

Causes serious eye irritation.

May cause drowsiness and dizziness.

Precautionary statements : Prevention:

Keep away from heat/sparks/open flames/hot surfaces. No

smoking.

Keep container tightly closed.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ ventilating/ lighting/ equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge. Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/ eye protection/ face protection.

Response:

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.

IF INHALED: Remove victim to fresh air and keep at rest in a

position comfortable for breathing.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue

rinsing.

Call a POISON CENTER/doctor if you feel unwell. If eye irritation persists: Get medical advice/ attention.

In case of fire: Use dry sand, dry chemical or alcohol-resistant

foam for extinction.

Storage:



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

Keep cool. Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal

plant.

Carcinogenicity

No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP, IARC, or OSHA.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C3H8O

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Isopropanol	67-63-0	100.00 %

SECTION 4. FIRST AID MEASURES

Inhalation : Remove to fresh air. If not breathing, give artificial respiration. If

breathing is difficult, give oxygen. Use oxygen as required, provided a qualified operator is present. Call a physician.

Skin contact : Wash off immediately with plenty of water for at least 15

minutes. Take off contaminated clothing and shoes immediately. Wash contaminated clothing before re-use. Call a physician if

irritation develops or persists.

Eye contact : Rinse immediately with plenty of water, also under the eyelids,

for at least 15 minutes. Call a physician.

Ingestion : Do not induce vomiting without medical advice. Immediate

medical attention is required. Never give anything by mouth to

an unconscious person. Call a physician.

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Notes to physician

Indication of immediate medical attention and special treatment needed, if necessary : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam

Carbon dioxide (CO2)

Dry chemical

Cool closed containers exposed to fire with water spray.

Unsuitable extinguishing

media

: Do not use a solid water stream as it may scatter and spread

fire.

Specific hazards during

firefighting

: Flammable.

Vapours may form explosive mixtures with air.

Vapours are heavier than air and may spread along floors. Vapors may travel to areas away from work site before

igniting/flashing back to vapor source.

In case of fire hazardous decomposition products may be

produced such as: Carbon monoxide Carbon dioxide (CO2)

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus and protective suit.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Wear personal protective equipment.

Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

Ensure adequate ventilation. Remove all sources of ignition.

Do not swallow.

Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clothing.

Environmental precautions : Prevent further leakage or spillage if safe to do so.

Prevent product from entering drains.

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Discharge into the environment must be avoided.

Do not flush into surface water or sanitary sewer system. Do not allow run-off from fire fighting to enter drains or water

courses.

Methods and materials for containment and cleaning

: Ventilate the area.

ontainment and cie

No sparking tools should be used. Use explosion-proof equipment.

up

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national

regulations (see section 13).

SECTION 7. HANDLING AND STORAGE

Handling

Precautions for safe

handling

: Wear personal protective equipment.

Use only in well-ventilated areas. Keep container tightly closed.

Do not smoke. Do not swallow.

Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clothing.

Advice on protection against :

fire and explosion

Keep away from fire, sparks and heated surfaces.

Take precautionary measures against static discharges.

Ensure all equipment is electrically grounded before beginning

transfer operations.

Use explosion-proof equipment.

Keep product and empty container away from heat and sources

of ignition.

No sparking tools should be used.

No smoking.

Storage

Conditions for safe storage,

including any incompatibilities

Store in area designed for storage of flammable liquids. Protect

from physical damage.

Keep containers tightly closed in a dry, cool and well-ventilated

place.

Containers which are opened must be carefully resealed and

kept upright to prevent leakage.

Keep away from heat and sources of ignition.

Keep away from direct sunlight.

Store away from incompatible substances.

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Container hazardous when empty.

Do not pressurize, cut, weld, braze, solder, drill, grind or expose

containers to heat or sources of ignition.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective measures : Ensure that eyewash stations and safety showers are close to

the workstation location.

Engineering measures : Use with local exhaust ventilation.

Prevent vapour buildup by providing adequate ventilation during

and after use.

Eye protection : Do not wear contact lenses.

Wear as appropriate:

Safety glasses with side-shields If splashes are likely to occur, wear:

Goggles or face shield, giving complete protection to eyes

Hand protection : Solvent-resistant gloves

Gloves must be inspected prior to use.

Replace when worn.

Skin and body protection : Wear as appropriate:

Solvent-resistant apron

Flame retardant antistatic protective clothing.

If splashes are likely to occur, wear:

Protective suit

Respiratory protection : In case of insufficient ventilation, wear suitable respiratory

equipment.

For rescue and maintenance work in storage tanks use

self-contained breathing apparatus.

Use NIOSH approved respiratory protection.

Hygiene measures : When using do not eat, drink or smoke.

Wash hands before breaks and immediately after handling the

product.

Keep working clothes separately.

Remove and wash contaminated clothing before re-use.

Do not swallow.

Avoid breathing vapours, mist or gas.

Avoid contact with skin, eyes and clothing.

Exposure Guidelines

Components	CAS-No.	Value	Control	Upda	Basis	
LOUIDONEIRS	CAOTIVO.	value	COHILIOI	UUUA	Dabib	



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				4.0	
Isopropanol	67-63-0	STEL: Short term exposure limit	parameters 984 mg/m3 (400 ppm)	07 2009	CAD AB OEL:Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)
Isopropanol	67-63-0	TWA : Time weighted average	492 mg/m3 (200 ppm)	07 2009	CAD AB OEL:Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2)
Isopropanol	67-63-0	STEL: Short term exposure limit	(400 ppm)	07 2007	CAD BC OEL:Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)
Isopropanol	67-63-0	TWA : Time weighted average	(200 ppm)	07 2007	CAD BC OEL:Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Substances, Occupational Health and Safety Regulation 296/97, as amended)



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Isopropanol	67-63-0	TWA : Time weighted average	(200 ppm)	03 2011	CAD MB OEL:Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)
Isopropanol	67-63-0	STEL: Short term exposure limit	(400 ppm)	03 2011	CAD MB OEL:Canada. Manitoba OELs (Reg. 217/2006, The Workplace Safety And Health Act)
Isopropanol	67-63-0	TWA : Time weighted average	(200 ppm)	11 2010	CAD ON OEL:Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)
Isopropanol	67-63-0	STEL: Short Term Exposure Limit (STEL):	(400 ppm)	11 2010	CAD ON OEL:Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents)
Isopropanol	67-63-0	8 HR ACL : 8 hour average contamin ation limit:	(200 ppm)	05 2009	CAD SK OEL:Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)



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Isopropanol	67-63-0	15 MIN ACL : 15 minute average contamin ation limit:	(400 ppm)	05 2009	CAD SK OEL:Canada. Saskatchewan OELs (Occupational Health and Safety Regulations, 1996, Table 21)
Isopropanol	67-63-0	TWA : Time weighted average	983 mg/m3 (400 ppm)	12 2008	OEL (QUE):Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)
Isopropanol	67-63-0	STEL : Short term exposure limit	1,230 mg/m3 (500 ppm)	12 2008	OEL (QUE):Canada. Quebec OELs. (Ministry of Labor - Regulation Respecting the Quality of the Work Environment)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Color : colourless

Odor : slight alcohol-like

Odor threshold : Note: no data available

pH : Note: Not applicable

Melting point/range : -88 °C

Boiling point/boiling range : 82.3 °C

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Flash point : 54 °F (12 °C)

Method: closed cup

Evaporation rate : Note: no data available

Lower explosion limit : 2.0 %(V)

Upper explosion limit : 12.0 %(V)

Vapor pressure : 44 hPa

at 20 °C(68 °F)

Vapor density : 2.1 Note: (Air = 1.0)

Density : 0.785 g/cm3 at 20 °C

Water solubility : Note: completely soluble

Partition coefficient:

n-octanol/water

: Note: no data available

Ignition temperature : 399 °C

Decomposition temperature : Note: no data available

Viscosity, dynamic : 2.1 mPa.s at 25 °C

Viscosity, kinematic : Note: no data available

Molecular weight : 60.11 g/mol



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SECTION 10. STABILITY AND REACTIVITY

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Hazardous polymerization does not occur.

Conditions to avoid : Heat, flames and sparks.

Keep away from direct sunlight.

Incompatible materials : Strong acids

Strong oxidizing agents Keep away from metals.

Acetaldehyde Aluminium Chlorine Ethylene oxide Isocyanates Oxygen

May attack many plastics, rubbers and coatings.

Hazardous decomposition

products

: In case of fire hazardous decomposition products may be

produced such as: Carbon monoxide Carbon dioxide (CO2)

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: 5,045 mg/kg

Species: Rat

Acute inhalation toxicity : LC50: 16000 ppm

Exposure time: 8 h Species: Rat

Acute dermal toxicity : LD50: 12,800 mg/kg

Species: Rabbit

Skin irritation : Species: Rabbit

Result: slight irritation

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Eye irritation : Species: Rabbit

Result: Severe eye irritation

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish : LC50: > 5 g/l

Exposure time: 24 h

Species: Carassius auratus (goldfish)

: LC50: 8,970 mg/l Exposure time: 48 h

Species: Leuciscus idus (Golden orfe)

: LC50: 10,400 mg/l Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other : EC50: > 100 mg/l

aquatic invertebrates

EC50: > 100 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea)

Toxicity to algae : LC50: > 2,000 mg/l

Exposure time: 72 h

Species: Desmodesmus subspicatus (green algae)

Toxicity to bacteria : EC50: 35,390 mg/l

Exposure time: 5 min

Species: Photobacterium phosphoreum

Elimination information (persistence and degradability)

Biodegradability : Biochemical Oxygen Demand (BOD)

Biochemical oxygen demand within 5 days

Value: 58 %

Further information on ecology

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Additional ecological

information

: Accumulation in aquatic organisms is unlikely.

SECTION 13. DISPOSAL CONSIDERATIONS

: Observe all Federal, State, and Local Environmental Disposal methods

regulations.

SECTION 14. TRANSPORT INFORMATION

: UN 1219 **TDG** UN/ID No.

> Proper shipping name : Isopropanol

Class 3 Packing group Ш Hazard Labels 3

: UN 1219 **IATA** UN/ID No.

Description of the goods : Isopropanol

Class : 3

Packaging group : 11 Hazard Labels : 3 Packing instruction (cargo : 364

aircraft)

: 353 Packing instruction

(passenger aircraft)

Packing instruction : Y341

(passenger aircraft)

IMDG UN/ID No. : UN 1219

Description of the goods : Isopropanol

: 3 Class Packaging group : 11 Hazard Labels : 3 EmS Number

: F-E, S-D Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

Inventories

US. Toxic Substances : On TSCA Inventory

Control Act

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Australia, Industrial

Chemical (Notification and

Assessment) Act

: On the inventory, or in compliance with the inventory

Canada. Canadian

Environmental Protection Act (CEPA). Domestic Substances List (DSL)

: All components of this product are on the Canadian DSL

Japan. Kashin-Hou Law List : On the inventory, or in compliance with the inventory

Korea. Existing Chemicals

Inventory (KECI)

: On the inventory, or in compliance with the inventory

Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control

Act

: On the inventory, or in compliance with the inventory

Chemical Substances

China. Inventory of Existing : On the inventory, or in compliance with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New

Zealand

: On the inventory, or in compliance with the inventory

National regulatory information

WHMIS

67-63-0 Components : Isopropanol

NPRI

67-63-0 Components : Isopropanol

SECTION 16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2*	1
Flammability	: 3	3
Physical Hazard	: 0	
Instability	:	0

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* - Chronic health hazard

Hazard rating and rating systems (e.g. HMIS® III, NFPA): This information is intended solely for the use of individuals trained in the particular system.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. Final determination of suitability of any material is the sole responsibility of the user. This information should not constitute a guarantee for any specific product properties.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group