

2-Propanol**109827-2.5L**

Version 1.3

Revision Date 07/20/2021

Print Date 05/11/2023

SECTION 1. IDENTIFICATION

Product name : 2-Propanol

Number : 000000020418

Product Use Description : Laboratory chemicals

Manufacturer or supplier's details : Honeywell International Inc.
1953 South Harvey Street
Muskegon, MI 49442

For more information call : 1-800-368-0050
+1-231-726-3171(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 : alcohol-like

Classification of the substance or mixture

Classification of the substance or mixture : Flammable liquids, Category 2
Eye irritation, Category 2A
Specific target organ toxicity - single exposure, Category 3,
Central nervous system

GHS Label elements, including precautionary statements

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Symbol(s)

:



Signal word

: Danger

Hazard statements

: Highly flammable liquid and vapour.
Causes serious eye irritation.
May cause drowsiness or 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/protective clothing/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:

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

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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 INGREDIENTSFormula : 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 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. Protect unharmed eye. Remove contact lenses. Call a physician immediately.
- 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.

Notes to physician

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Most important symptoms/effects, acute and delayed : No information available.

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 : High volume water jet

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.
No unprotected exposed skin areas.

Further information : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Do not use a solid water stream as it may scatter and spread fire.

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.

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- Remove all sources of ignition.
Do not breathe vapours or spray mist.
Avoid contact with skin, eyes and clothing.
- Environmental precautions : Prevent further leakage or spillage if safe to do so.
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 up : Ventilate the area.
Do not use sparking tools.
Use explosion-proof equipment.
Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).
Pick for disposal in tightly closed containers

SECTION 7. HANDLING AND STORAGE**Handling**

- Precautions for safe handling : Wear personal protective equipment.
Use only in well-ventilated areas.
Use explosion-proof equipment.
- Advice on protection against fire and explosion : Keep away from fire, sparks and heated surfaces.
No smoking.
Take precautionary measures against static discharges.
Vapours may form explosive mixtures with air.
Use only in explosion-proof areas.

Storage

- Conditions for safe storage, including any incompatibilities : Store in original container.
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.
Keep away from direct sunlight.
Keep away from heat and sources of ignition.

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SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Protective measures : Ensure that eyewash stations and safety showers are close to the workstation location.
Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.
Do not breathe vapours or spray mist.
- Engineering measures : Use with local exhaust ventilation.
Prevent vapour buildup by providing adequate ventilation during and after use.
- Eye protection : Safety goggles
- Hand protection : Impervious butyl rubber gloves
Gloves must be inspected prior to use.
Replace when worn.
- Skin and body protection : Flame retardant antistatic protective clothing.
- Respiratory protection : In case of insufficient ventilation, wear suitable respiratory equipment.
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 breathe dust or spray mist.
Avoid contact with skin, eyes and clothing.

Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Update	Basis
Isopropanol	67-63-0	STEL : Short term exposure limit	(400 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended

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Isopropanol	67-63-0	TWA : Time weighted average	(200 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Isopropanol	67-63-0	STEL : Short term exposure limit	1,225 mg/m3 (500 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Isopropanol	67-63-0	REL : Recomm ended exposure limit (REL):	980 mg/m3 (400 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Isopropanol	67-63-0	PEL : Permissi ble exposure limit	980 mg/m3 (400 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Isopropanol	67-63-0	STEL : Short term exposure limit	1,225 mg/m3 (500 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Isopropanol	67-63-0	TWA : Time weighted average	980 mg/m3 (400 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

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Color	: colourless
Odor	: alcohol-like
Odor threshold	: Note: No data available
pH	: Note: neutral
Melting point/range	: -90 °C
Boiling point/boiling range	: 77 - 83 °C at 1,013 hPa
Flash point	: 54 °F (12 °C) Method: DIN 51755
Evaporation rate	: Note: No data available
Lower explosion limit	: 2 %(V)
Upper explosion limit	: 12 %(V)
Vapor pressure	: ca. 42 hPa at 20 °C(68 °F)
Vapor density	: > 1 Note: (Air = 1.0)
Density	: 0.7855 g/cm ³ at 20 °C
Specific gravity	: 0.8
Water solubility	: Note: completely miscible
Solubility in other solvents	: Note: Soluble in most organic solvents
Partition coefficient:	: log Pow: 0.05 at 25 °C

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n-octanol/water

Ignition temperature : ca. 425 °C

Decomposition temperature : Note: No decomposition if used as directed.

Viscosity, dynamic : ca. 2.5 mPa.s at 20 °C

Viscosity, kinematic : 2.66 mm²/s at 25 °C

Molecular weight : 60.11 g/mol

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous reactions : Vapours may form explosive mixture with air.
Hazardous polymerisation does not occur.Conditions to avoid : Heat, flames and sparks.
Keep away from direct sunlight.

Incompatible materials : Strong oxidizing agents

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: 5,840 mg/kg
Species: Rat

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Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50: > 10000 ppm, vapour
Exposure time: 6 h
Species: Rat
Method: OECD Test Guideline 403
Note: Test atmosphere: vapour

Acute dermal toxicity : LD50: 12,800 mg/kg
Species: Rabbit
Method: OECD Test Guideline 402

Skin irritation : Species: Rabbit
Result: slight irritation

Eye irritation : Species: Rabbit
Result: Irritating to eyes.
Method: OECD Test Guideline 405

Sensitisation : Buehler Test
Species: Guinea pig
Result: non-sensitizing
Method: OECD Test Guideline 406

Genotoxicity in vitro : Test Method: In vitro mammalian cell gene mutation test
Cell type: Chinese Hamster Ovary Cells
Metabolic activation: with and without metabolic activation
Result: negative
Method: OECD Test Guideline 476

: Test Method: Ames test
Metabolic activation: with and without metabolic activation
Result: negative
Method: OECD Test Guideline 471

Genotoxicity in vivo : Test Method: Micronucleus test
Species: Mouse
Method: OECD Test Guideline 474
Result: negative

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Carcinogenicity

Isopropanol

: Note: Not classified due to data which are conclusive although insufficient for classification.

Reproductive toxicity

Isopropanol

: Note: Not classified due to data which are conclusive although insufficient for classification.

Further information

: Note: Solvent vapours have a narcotic effect if inhaled in high concentrations.

SECTION 12. ECOLOGICAL INFORMATION**Ecotoxicity effects****Toxicity to fish**: flow-through test
LC50: 9,640 mg/l
Exposure time: 96 h
Species: Pimephales promelas (fathead minnow)
Method: OECD Test Guideline 203**Toxicity to daphnia and other aquatic invertebrates**: static test
EC50: > 10,000 mg/l
Exposure time: 24 h
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 202**Toxicity to algae**

: Note: Not classified due to data which are conclusive although insufficient for classification.

Toxicity to bacteria: static test
1,050 mg/l
Exposure time: 16 h
Species: Pseudomonas putida
Method: DIN 38412

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Elimination information (persistence and degradability)

Bioaccumulation : Note: Bioaccumulation is unlikely.

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Biodegradability : Biochemical Oxygen Demand (BOD)
Biochemical oxygen demand within 5 days
Value: 58 %**Further information on ecology****Ecotoxicology Assessment**

Results of PBT assessment

This substance is not considered to be persistent, bioaccumulating and toxic (PBT)., This substance is not considered to be very persistent and very bioaccumulating (vPvB).

SECTION 13. DISPOSAL CONSIDERATIONS

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

SECTION 14. TRANSPORT INFORMATION

DOT	UN/ID No.	: UN 1219
	Proper shipping name	: Isopropanol
	Class	: 3
	Packing group	: II
	Hazard Labels	: 3

IATA	UN/ID No.	: UN 1219
	Description of the goods	: Isopropanol
	Class	: 3
	Packaging group	: II
	Hazard Labels	: 3
	Packing instruction (cargo aircraft)	: 364
	Packing instruction (passenger aircraft)	: 353

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	Packing instruction (passenger aircraft)	: Y341
IMDG	UN/ID No.	: UN 1219
	Description of the goods	: Isopropanol
	Class	: 3
	Packaging group	: II
	Hazard Labels	: 3
	EmS Number	: F-E, S-D
	Marine pollutant	: no

SECTION 15. REGULATORY INFORMATION**Inventories**

US. Toxic Substances Control Act : On TSCA Inventory

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. Inventory of Chemicals and Chemical Substances (PICCS) : On the inventory, or in compliance with the inventory

China. Inventory of Existing Chemical Substances (IECSC) : 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

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National regulatory information

	:	:
SARA 302 Components	:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA 313 Components	:	The following components are subject to reporting levels established by SARA Title III, Section 313:
	:	Isopropanol 67-63-0
SARA 311/312 Hazards	:	Fire Hazard Acute Health Hazard
California Prop. 65	:	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.
Massachusetts RTK	:	Isopropanol 67-63-0
New Jersey RTK	:	Isopropanol 67-63-0
Pennsylvania RTK	:	Isopropanol 67-63-0

SECTION 16. OTHER INFORMATION

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

* - 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.

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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.

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