

**2-Propanol****34863-4X4L**

Version 2.0

Revision Date 05/29/2019

Print Date 05/12/2023

**SECTION 1. IDENTIFICATION**

Product name : 2-Propanol

Number : 000000011380

Product Use Description : Solvent

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 : slight 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/ 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 plant.

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#### 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 : C<sub>3</sub>H<sub>8</sub>O

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.

#### Notes to physician

Indication of immediate medical attention and : Treat symptomatically.

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special treatment needed, if  
necessary

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
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 (CO<sub>2</sub>)
- 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.  
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

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courses.

Methods and materials for containment and cleaning up : Ventilate the area.  
 No sparking tools should be used.  
 Use explosion-proof equipment.  
 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.  
 Container hazardous when empty.

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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.

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**Exposure Guidelines**

Components	CAS-No.	Value	Control parameters	Update	Basis
Isopropanol	67-63-0	TWA : Time weighted average	(200 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
Isopropanol	67-63-0	STEL : Short term exposure limit	(400 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
Isopropanol	67-63-0	REL : Recommended exposure limit (REL):	980 mg/m3 (400 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
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
Isopropanol	67-63-0	PEL : Permissible exposure limit	980 mg/m3 (400 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
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)
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)

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**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
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/cm <sup>3</sup> at 20 °C
Water solubility	: Note: completely soluble



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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

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous  
reactions : Hazardous polymerisation 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 (CO<sub>2</sub>)

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**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
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

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Exposure time: 96 h  
Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other 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**

Additional ecological information : Accumulation in aquatic organisms is unlikely.

**SECTION 13. DISPOSAL CONSIDERATIONS**

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

**SECTION 14. TRANSPORT INFORMATION**

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

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**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
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. The Toxic Substances and Hazardous and Nuclear Waste Control : On the inventory, or in compliance with the inventory

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Act

China. Inventory of Existing Chemical Substances : 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**

**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  
 Chronic 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**

	<b>HMIS III</b>	<b>NFPA</b>
Health hazard	: 2*	1

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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.

**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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