Honeywell

1-Propanol

24135-1L

Version 1.3 Revision Date 05/14/2024 Print Date 11/19/2024

SECTION 1. IDENTIFICATION

Product name 1-Propanol

Number 000000020245

Product Use Description Laboratory chemicals, Industrial use

Manufacturer or supplier's

details

Honeywell International Inc. 115 Tabor Road

Morris Plains, NJ 07950-2546

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

or mixture

Classification of the substance : Flammable liquids, Category 2 Serious eye damage, Category 1

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 damage.

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.

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.

Immediately call a POISON CENTER/ doctor.

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 : C3H8O

Chemical nature : Substance

Chemical name	CAS-No.	Concentration
Propan-1-ol	71-23-8	100.00 %

SECTION 4. FIRST AID MEASURES

General advice : First aider needs to protect himself. Move out of dangerous

area. Immediately take off contaminated clothing and rinse body with plenty of water. Victim to lie down in the recovery position,

cover and keep him warm.

Inhalation : In case of accident by inhalation: remove casualty to fresh air

and keep at rest. If symptoms persist, call a physician.

Skin contact : After contact with skin, wash immediately with plenty of water.

Eye contact : Protect unharmed eye. Irrigate eyes for at least 15 minutes with

copious quantities of water, keeping eyelids apart and away from eyeballs during irrigation. Call a physician immediately.

Ingestion : When swallowed, allow water to be drunk. Do NOT induce

vomiting. Call a physician immediately.

Notes to physician

Most important : symptoms/effects, acute and

: No information available.

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delayed

Indication of immediate medical attention and special treatment needed, if

necessary

Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray

Carbon dioxide (CO2)

Dry powder

Alcohol-resistant foam

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 oxides

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus and protective suit.

Further information : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment. Use water spray to cool unopened containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures Evacuate personnel to safe areas.

Wear personal protective equipment. Unprotected persons

must be kept away.

Ensure adequate ventilation. Remove all sources of ignition.

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Prevent further leakage or spillage if safe to do so.

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up

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Clean contaminated floors and objects thoroughly while

observing environmental regulations.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning

Ventilate the area.

Do not use sparking tools.

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.

Advice on protection against :

fire and explosion

Keep product and empty container away from heat and sources

of ignition.

No smoking.

Take precautionary measures against static discharges.

Vapours may form explosive mixtures with air.

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.

Store in original container.

Advice on common storage : Do not store together with:

Oxidizing agents

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

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the workstation location.

Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment.

Avoid inhalation of vapour or mist.

: Use with local exhaust ventilation. Engineering measures

Prevent vapour buildup by providing adequate ventilation during

and after use.

Eye protection Safety goggles

Hand protection : Wear nitrile rubber gloves to avoid contact with the skin.

Gloves must be inspected prior to use.

Replace when worn.

Skin and body protection : Protective suit

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

equipment.

Ensure adequate ventilation, especially in confined areas. Hygiene measures

When using do not eat or drink.

Exposure Guide	lines		_		
Components	CAS-No.	Value	Control parameters	Upda te	Basis
Propan-1-ol	71-23-8	TWA: Time weighted average	(100 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values, as amended
Propan-1-ol	71-23-8	STEL : Short term exposure limit	625 mg/m3 (250 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Propan-1-ol	71-23-8	REL: Recomm ended exposure limit (REL):	500 mg/m3 (200 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended

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Propan-1-ol	71-23-8	SKIN_DE S : Skin designati on:	Can be absorbed through the skin.	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Propan-1-ol	71-23-8	PEL: Permissi ble exposure limit	500 mg/m3 (200 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Propan-1-ol	71-23-8	STEL: Short term exposure limit	625 mg/m3 (250 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Propan-1-ol	71-23-8	TWA : Time weighted average	500 mg/m3 (200 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Color : colourless

Odor : alcohol-like

pH : 8.5 at 200.00 g/l, 20 °C

Melting point/range : -127 °C

Boiling point/boiling range : 96 - 98 °C at 1,013 hPa

Method: DIN 53171

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Flash point : $< 70 \,^{\circ}\text{F} (21 \,^{\circ}\text{C})$

Method: DIN 51755

Evaporation rate : Note: No data available

Lower explosion limit : 2.4 %(V)

Upper explosion limit : 10.8 %(V)

Vapor pressure : 28.2 hPa

at 25 °C(77 °F)

Vapor density : Note: No data available

Density : 0.803 - 0.804 g/cm3 at 20 °C

Water solubility : Note: completely miscible

Solubility in other solvents : Note: Soluble in most organic solvents

Partition coefficient:

n-octanol/water

: log Pow: 0.20 - 0.34 at 25 °C

Ignition temperature : 395 °C

Auto-ignition temperature : Note: not auto-flammable

Decomposition temperature : Note: At normal pressure may be distilled without

decomposition., Fire or intense heat may cause violent rupture

of packages.

Viscosity, dynamic : 2.21 mPa.s at 20 °C

Viscosity, kinematic : Note: No data available

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Molecular weight : 60.1 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.

Incompatible materials : Strong oxidizing agents

Hazardous decomposition

products

: In case of fire hazardous decomposition products may be

produced such as: Carbon oxides

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity : LD50: 8,038 mg/kg

Species: Rat

Acute inhalation toxicity : LC50: > 33.8 mg/l , vapour

Exposure time: 4 h

Species: Rat

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50: 4,032 mg/kg

Species: Rabbit, male

Method: OECD Test Guideline 402

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Skin irritation : Species: Rabbit

Result: slight irritation

Eye irritation : Species: Rabbit

Result: Risk of serious damage to eyes.

Sensitisation : Maximisation Test

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Genotoxicity in vitro : Test Method: Ames test

Metabolic activation: with and without metabolic activation

Result: negative

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: 4,555 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

LC50: 3,644 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea)

Method: DIN 38412

Toxicity to algae : static test

NOEC: 1,150 mg/l Exposure time: 48 h

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Species: Chlorella pyrenoidosa

Toxicity to bacteria : static test

IC50: > 1,000 mg/l Exposure time: 3 h Species: activated sludge

Method: OECD Test Guideline 209

Toxicity to daphnia and other : semi-static test

aquatic invertebrates (Chronic toxicity)

NOEC: > 100 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

Elimination information (persistence and degradability)

Bioaccumulation : Note: Due to the distribution coefficient n-octanol/water,

accumulation in organisms is not expected.

Biodegradability : Note: Readily biodegradable.

Further information on ecology

Adsorbed organic bound

halogens (AOX)

: Note: Product does not contain any organic halogens.

SECTION 13. DISPOSAL CONSIDERATIONS

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

regulations.

SECTION 14. TRANSPORT INFORMATION

DOT UN/ID No. : UN 1274

Proper shipping name : n-Propanol

Class 3
Packing group II
Hazard Labels 3

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IATA UN/ID No. : UN 1274

Description of the goods : n-Propanol

Class : 3
Packaging group : II
Hazard Labels : 3
Packing instruction (cargo : 364

aircraft)

Packing instruction : 353

(passenger aircraft)

Packing instruction : Y341

(passenger aircraft)

IMDG UN/ID No. : UN 1274

Description of the goods : n-Propanol

Class : 3 Packaging group : II

Hazard Labels : 3 EmS Number : F-E, S-D

Marine pollutant : no

SECTION 15. REGULATORY INFORMATION

Inventories

USA. List of Active : On TSCA Inventory

Substances on the Toxic Substances Control Act (TSCA) Chemical Substances Inventory, as

amended

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

Industrial Chemicals (AIIC),

as amended

Canada. Domestic

Substances List (DSL), as

amended

: 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

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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

Taiwan Chemical

Substance Inventory (TCSI)

: 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 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

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 : Propan-1-ol 71-23-8

New Jersey RTK : Propan-1-ol 71-23-8

Pennsylvania RTK : Propan-1-ol 71-23-8

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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.

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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Prepared by Honeywell Energy and Sustainabilty Solutions Product Stewardship Group Product

Stewardship Group