# Honeywell

# n-Propyl Alcohol

LP322-19

Version 2.0 Revision Date 06/13/2019 Print Date 10/17/2019

#### SECTION 1. IDENTIFICATION

Product name n-Propyl Alcohol

Number 000000011405

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, clear

Color : colourless

Odor : alcohol-like

#### Classification of the substance or mixture

or mixture

Classification of the substance : Flammable liquids, Category 3 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)

1





Signal word : Danger

Hazard statements : 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/ 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 name	CAS-No.	Concentration
Propan-1-ol	71-23-8	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 if irritation develops or

persists.

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

special treatment needed, if

necessary

: Treat symptomatically.

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#### **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.

Discharge into the environment must be avoided.

Do not flush into surface water or sanitary sewer system. Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

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Methods and materials for containment and cleaning

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.

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

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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
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Exposure Guidelines						
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	
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	
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	
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	
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)	
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)	
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)	

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#### **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical state : liquid, clear

Color : colourless

Odor : alcohol-like

Odor threshold : Note: no data available

pH : Note: Not applicable

Melting point/range : -126.2 °C

Boiling point/boiling range : 97.2 °C

Flash point : 73 °F (23 °C)

Method: closed cup

Evaporation rate : Note: no data available

Lower explosion limit : 2.2 %(V)

Upper explosion limit : 13.7 %(V)

Vapor pressure : 20 hPa

at 20 °C(68 °F)

Vapor density : 2.1 Note: (Air = 1.0)

Density : 0.8053 g/cm3 at 20 °C

Water solubility : Note: completely soluble

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Partition coefficient:

n-octanol/water

: Note: no data available

Ignition temperature : 412 °C

Decomposition temperature : Note: no data available

Viscosity, dynamic : Note: no data available

Viscosity, kinematic : Note: no data available

Molecular weight : 60.09 g/mol

#### **SECTION 10. STABILITY AND REACTIVITY**

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous

Conditions to avoid

reactions

: Hazardous polymerisation does not occur.

: Heat, flames and sparks.

Keep away from direct sunlight.

Incompatible materials : Oxidizing agents

Strong acids and strong bases

Amines

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)

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#### **SECTION 11. TOXICOLOGICAL INFORMATION**

Acute oral toxicity

Propan-1-ol : LD50: 5,400 mg/kg

Species: Rat

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

Exposure time: 4 h Species: Rat

Acute dermal toxicity : LD50: 4,049 mg/kg

Species: Rabbit

Skin irritation : Species: Rabbit

Result: slight irritation

Eye irritation : Species: Rabbit

Result: Moderate eye irritation

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

#### **SECTION 12. ECOLOGICAL INFORMATION**

#### **Ecotoxicity effects**

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Toxicity to fish : LC50: 4,480 mg/l

Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

: LC50: 4.3 g/l

Exposure time: 48 h

Species: Leuciscus idus (Golden orfe)

Toxicity to daphnia and other

aquatic invertebrates

: EC50: 3,644 mg/l Exposure time: 48 h

Species: Daphnia magna (Water flea)

Further information on ecology

Additional ecological

information

: Bioaccumulation is unlikely. Inherently biodegradable.

**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
Packing group

Hazard Labels

3 III 3

IATA UN/ID No. : UN 1274

Description of the goods : n-Propanol

Class

: 3 : III : 3

Packing instruction (cargo

aircraft)

Hazard Labels

Packaging group

: 366

Packing instruction

: 355

(passenger aircraft)

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> Packing instruction : Y344

(passenger aircraft)

**IMDG** UN/ID No. : UN 1274

> Description of the goods : n-Propanol

Class : 3 Packaging group : 111 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

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

NZIOC - New Zealand

: On the inventory, or in compliance with the inventory

#### **National regulatory information**

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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

#### **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

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

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