Honeywell

LP323-204 ISOPROPYL ALCOHOL LAB PLUS

000000011380

Version 1.7 Revision Date 03/27/2014 Print Date 02/25/2016

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Isopropyl Alcohol

MSDS Number : 000000011380

Product Use Description : Solvent

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 : slight alcohol-like

Classification of the substance or mixture

Classification of the substance : Flammable liquids, Category 2

or mixture

Flammable liquids, Category 2

Eye irritation, Category 2A

Specific target organ toxicity - single exposure, Category 3,

Central nervous system

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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 or doctor/ physician 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.

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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 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.

Notes to physician

Treatment : 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 : 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

courses.

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Methods for 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

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

Requirements for storage areas and containers

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							
Components	CAS-No.	Value	Control parameters	Upda te	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: Recomm ended 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: 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)		
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

pH : Note: not applicable

Melting point/freezing point : -88 °C

Boiling point/boiling range : 82.3 °C

Flash point : 54 °F (12 °C)

Method: closed cup

Lower explosion limit : 2 %(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

Ignition temperature : 399 °C

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

Molecular weight : 60.11 g/mol

SECTION 10. STABILITY AND REACTIVITY

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 to

avoid

: 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

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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

Exposure time: 96 h

Species: Pimephales promelas (fathead minnow)

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

aquatic invertebrates

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)

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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 : Accumulation in aquatic organisms is unlikely.

information

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 : 364

aircraft)

Packing instruction : 353

(passenger aircraft)

Packing instruction : Y341

(passenger aircraft)

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

> Description of the goods : Isopropanol

Class : 3 Packaging group : 11 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. Toxic Chemical Control Law (TCCL) List

: 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

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

Act

: On the inventory, or in compliance with the inventory

National regulatory information

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SARA 302 Components : SARA 302: 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

WHMIS Classification : B2: Flammable liquid

D2B: Toxic Material Causing Other Toxic Effects

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required

by the CPR.

SECTION 16. OTHER INFORMATION

	HMIS III	NFP
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.

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Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group