

#### 323-1L ISOPROPYL ALCOHOL CS6

### 000000011380

Version	1.7

Revision Date 03/27/2014

Print Date 07/25/2018

#### SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

			ANT IDENTIFICATION
	Product name	:	Isopropyl Alcohol
	MSDS Number	:	00000011380
	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)
SEC	TION 2 HAZARDS IDENTIE		τιον

#### SECTION 2. HAZARDS IDENTIFICATION

Emergency Overview

Form

Color

Odor

: slight alcohol-like

: colourless

: liquid

#### Classification of the substance or mixture

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

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CHS I abal alamanta inclu	ling proposition on a state monto	
	ding precautionary statements	
Symbol(s)		
Signal word	: Danger	
Hazard statements	: Highly flammable liquid and vapour. Causes serious eye irritation.	
	May cause drowsiness and dizzine	SS.
Precautionary statements	: <b>Prevention:</b> Keep away from heat/sparks/open t	flames/hot surfaces No
	smoking.	
	Keep container tightly closed. Ground/bond container and receivin	a aquinmont
	Use explosion-proof electrical/venti Use only non-sparking tools.	
	Take precautionary measures agair	
	Avoid breathing dust/ fume/ gas/ mi Wash skin thoroughly after handling	
	Use only outdoors or in a well-ventil	
	Wear protective gloves/ eye protect	
	Response:	
	IF ON SKIN (or hair): Remove/ Take contaminated clothing. Rinse skin v	vith water/ shower.
	IF INHALED: Remove victim to fres position comfortable for breathing.	h air and keep at rest in a
	IF IN EYES: Rinse cautiously with v	water for several minutes.
	Remove contact lenses, if present a rinsing.	and easy to do. Continue
	Call a POISON CENTER or doctor/	
	If eye irritation persists: Get medica In case of fire: Use dry sand, dry ch foam for extinction.	
	Storage:	on container tightly closed
	Store in a well-ventilated place. Kee Keep cool. Store locked up.	sp container tightiy closed.
	<b>Disposal:</b> Dispose of contents/ container to ar	n approved waste disposal
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	plant.		
Carcinogenicity			
	roduct present at levels great by NTP, IARC, or OSHA.	ter than or equal to 0.1	% is identified as a know
CTION 3. COMPOSITIO	N/INFORMATION ON INGR	REDIENTS	
Formula	: C3H8O		
Chemical nature	: Substance		
Cher	nical Name	CAS-No.	Concentration
Isopropanol		67-63-0	100.00 %
CTION 4. FIRST AID ME	ASURES		
Inhalation	breathing is difficu	air. If not breathing, giv ult, give oxygen. Use c ed operator is present.	
Skin contact	minutes. Take off	ed clothing before re-u	and shoes immediately.
Eye contact		y with plenty of water, nutes. Call a physician.	also under the eyelids,
Ingestion	medical attention	niting without medical is required. Never give person. Call a physiciar	e anything by mouth to
	•		
Notes to physician			
<b>Notes to physician</b> Treatment	: Treat symptomati	ically.	



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	ASURES
Suitable extinguishing media	<ul> <li>Alcohol-resistant foam</li> <li>Carbon dioxide (CO2)</li> <li>Dry chemical</li> <li>Cool closed containers exposed to fire with water spray.</li> </ul>
Unsuitable extinguishing media	: Do not use a solid water stream as it may scatter and spread fire.
Specific hazards during firefighting	<ul> <li>Flammable.</li> <li>Vapours may form explosive mixtures with air.</li> <li>Vapours are heavier than air and may spread along floors.</li> <li>Vapors may travel to areas away from work site before igniting/flashing back to vapor source.</li> <li>In case of fire hazardous decomposition products may be produced such as:</li> <li>Carbon monoxide</li> <li>Carbon dioxide (CO2)</li> </ul>
Special protective equipment for firefighters	: Wear self-contained breathing apparatus and protective suit.
for firefighters	
for firefighters	EASE MEASURES : 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.



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CTION 7. HANDLING AND STOR/         Handling         Handling         Advice on protection against :         fire and explosion	No sparking tools should be used. Use explosion-proof equipment. Contain spillage, soak up with non-com material, (e.g. sand, earth, diatomaceou transfer to a container for disposal accor regulations (see section 13).	us earth, vermiculite) and ording to local / national
Handling:Handling:Advice on protection against fire and explosion:	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 cloth Keep away from fire, sparks and heate	-
Handling : Advice on protection against : fire and explosion	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 cloth Keep away from fire, sparks and heate	-
Advice on protection against : fire and explosion	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 cloth Keep away from fire, sparks and heate	-
fire and explosion		d surfaces
	Ensure all equipment is electrically gro transfer operations. Use explosion-proof equipment. Keep product and empty container awa of ignition. No sparking tools should be used. No smoking.	static discharges. unded before beginning
Storage		
areas and containers	Store in area designed for storage of fla from physical damage. Keep containers tightly closed in a dry, place. Containers which are opened must be kept upright to prevent leakage. Keep away from heat and sources of ig Keep away from direct sunlight. Store away from incompatible substant Container hazardous when empty. Do not pressurize, cut, weld, braze, sol containers to heat or sources of ignition	cool and well-ventilated carefully resealed and gnition. ces. der, drill, grind or expose



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Protective measures	:		Ensure that eyewash stations and safety showers are close t the workstation location.					
Engineering measures	:	Use v	uate ventilation during					
Eye protection	:	Wear Safety If spla	as approp / glasses ashes are	with side-shields likely to occur, w	/ear:	rotection to eyes		
Hand protection	:	Glove	nt-resistar s must be ce when	e inspected prior	to use.			
Skin and body protection	:	Solve Flame If spla				ng		
Respiratory protection	:	equip For re self-c	ment. scue and ontained 1	ficient ventilation maintenance wo preathing appara proved respirator	ork in stora tus.	ge tanks use		
Hygiene measures	÷	Wash produ Keep Remo Do no Avoid	hands be ct. working c we and w ot swallow breathing	clothes separately ash contaminate	immediate y. d clothing r gas.			
Exposure Guidelines Components CAS	No.		Value	Control	Upda	Basis		



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ion 1.7		Revision Date	93/27/2014		Print Date 07/25
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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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	
Viscosity, dynamic	: 2.1 mPa.s at 25 °C	
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Molecular weight	: 60.11 g/mol	
SECTION 10. STABILITY AND RE	ACTIVITY	
Chemical stability	: Stable under recommended storage	e conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does no	t occur.
Conditions to avoid	: Heat, flames and sparks. Keep away from direct sunlight.	
Incompatible materials to avoid	<ul> <li>Strong acids</li> <li>Strong oxidizing agents</li> <li>Keep away from metals.</li> <li>Acetaldehyde</li> <li>Aluminium</li> <li>Chlorine</li> <li>Ethylene oxide</li> <li>Isocyanates</li> <li>Oxygen</li> <li>May attack many plastics, rubbers</li> </ul>	and coatings.
Hazardous decomposition products	: In case of fire hazardous decompos produced such as: Carbon monoxide Carbon dioxide (CO2)	sition products may be
SECTION 11. TOXICOLOGICAL I	NFORMATION	
Acute oral toxicity	: LD50: 5,045 mg/kg Species: rat	
Acute inhalation toxicity	: LC50: 16000 ppm Exposure time: 8 h Species: rat	
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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		
TION 12. ECOLOGICAL INFO	RMATION		
Ecotoxicity effects			
Toxicity to fish	: LC50: > 5 g/l Exposure time: 24 h Species: Carassius auratus (goldfis)	h)	
	: LC50: 8,970 mg/l Exposure time: 48 h Species: Leuciscus idus (Golden or	fe)	
	: LC50: 10,400 mg/l Exposure time: 96 h Species: Pimephales promelas (fath	nead minnow)	
Toxicity to daphnia and other aquatic invertebrates	: EC50: > 100 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)		
aquatic inventebrates	Species. Daprina magna (water ne	a)	
Toxicity to algae	<ul> <li>: LC50: &gt; 2,000 mg/l</li> <li>Exposure time: 72 h</li> <li>Species: Desmodesmus subspicatu</li> </ul>		
	: LC50: > 2,000 mg/l Exposure time: 72 h		



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		Species: Photobacterium phosphoreum	1
Eliminati	on information (persiste	nce and degradability)	
Biodegrac	ability .	Biochemical Oxygen Demand (BOD)	
	-	Biochemical oxygen demand within 5 c Value: 58 %	days
Further in	nformation on ecology		
Additional ecological : Accumulation in aquatic organisms is unlikely.		unlikely.	
CTION 13.	DISPOSAL CONSIDERA	TIONS	
Disposal		Observe all Federal, State, and Local I regulations.	Environmental
CTION 14.	TRANSPORT INFORMA	TION	
DOT	UN/ID No. Proper shipping name	: UN 1219 : Isopropanol	
	Class	3	
	Packing group Hazard Labels	Ш З	
ΙΑΤΑ	UN/ID No.	: UN 1219	
	Description of the good	ds : Isopropanol	
	Class Packaging group	: 3 : II	
	Hazard Labels	: 3	
	Packing instruction (ca aircraft)	irgo : 364	
	Packing instruction	: 353	
	(passenger aircraft) Packing instruction	: Y341	
	(passenger aircraft)	. 1341	
IMDG	UN/ID No.	: UN 1219	
	Description of the good Class	ds : Isopropanol : 3	
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Packaging group Hazard Labels EmS Number Marine pollutant	: II : 3 : F-E, S-D : no	
CTION 15. REGULATORY INF	ORMATION	
Inventories		
US. Toxic Substances Control Act	: On TSCA Inventory	
Australia. Industrial Chemical (Notification and Assessment) Act	: On the inventory, or in compliance with t	he inventory
Canada. Canadian Environmental Protection Act (CEPA). Domestic Substances List (DSL)	: All components of this product are on the	e Canadian DSL.
Japan. Kashin-Hou Law List	: On the inventory, or in compliance with t	he inventory
Korea. Toxic Chemical Control Law (TCCL) List	: On the inventory, or in compliance with t	he inventory
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	: On the inventory, or in compliance with t	he inventory
China. Inventory of Existing Chemical Substances	: On the inventory, or in compliance with t	he inventory
New Zealand. Inventory of Chemicals (NZloC), as published by ERMA New Zealand	: On the inventory, or in compliance with t	he inventory
National regulatory informa	ion	
SARA 302 Components	: SARA 302: No chemicals in this material reporting requirements of SARA Title III,	
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SARA 313 Components	: The following	components are subject	ct to reporting levels	
		established by SARA Title III, Section 313:		
	: Isopropanol		67-63-0	
SARA 311/312 Hazards	: Fire Hazard			
	Acute Health			
	Chronic Healt	h Hazard		
California Prop. 65	: This product of	does not contain any ch	emicals known to State of	
		cause cancer, birth defe	cts, or any other	
	reproductive I	harm.		
Massachusetts RTK	: Isopropanol		67-63-0	
New Jersey RTK	: Isopropanol	Isopropanol 67-63-0		
Pennsylvania RTK	: Isopropanol		67-63-0	
WHMIS Classification	: B2: Flammab		· · <i>_u</i>	
		aterial Causing Other T		
			ording to the hazard criteria Il of the information required	
	by the CPR.			
	-			
TION 16. OTHER INFORM	ATION			
	HMIS III	NFPA		
Health hazard	: 2*	1		
Flammability	: 3	3		
Physical Hazard	: 0	0		
Instability	:	0		
* - Chronic health hazard				
Hazard rating and rating sy use of individuals trained in			ation is intended solely for the	
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#### Further 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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