Honeywell

n-Propyl Alcohol

LP322-4

Version 2.0 Revision Date 06/13/2019 Print Date 10/17/2019 SECTION 1. IDENTIFICATION Product name : n-Propyl Alcohol Number 00000011405 ÷ Product Use Description 2 Solvent Manufacturer or supplier's Honevwell International Inc. . details 1953 South Harvey Street Muskegon, MI 49442 For more information call 2 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 1 Transportation (CHEMTREC): 1-800-424-9300 or +1-703-527-3887 2 (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 Classification of the substance : Flammable liquids, Category 3 or mixture Serious eye damage, Category 1 Specific target organ toxicity - single exposure, Category 3, Central nervous system GHS Label elements, including precautionary statements Page 1 / 14

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Symbol(s)		
Signal word	: Danger	
Hazard statements	: Flammable liquid and vapour. Causes serious eye damage. May cause drowsiness or dizzines	ŝS.
Precautionary statements	 Prevention: Keep away from heat/sparks/oper smoking. Keep container tightly closed. Ground/bond container and receive Use explosion-proof electrical/ver Use only non-sparking tools. Take precautionary measures aga Avoid breathing dust/ fume/ gas/ r Use only outdoors or in a well-vent Wear protective gloves/ eye protection. Response: IF ON SKIN (or hair): Remove/ Ta contaminated clothing. Rinse skin IF INHALED: Remove victim to free position comfortable for breathing. IF IN EYES: Rinse cautiously with Remove contact lenses, if present rinsing. Immediately call a POISON CENT In case of fire: Use dry sand, dry of foam for extinction. Store in a well-ventilated place. Ke Keep cool. Store locked up. Disposal: Dispose of contents/ container to a plant. 	ving equipment. htilating/ lighting/ equipment. ainst static discharge. nist/ vapours/ spray. htilated area. ction/ face protection. Ake off immediately all with water/ shower. esh air and keep at rest in a water for several minutes. t and easy to do. Continue TER/doctor. chemical or alcohol-resistant eep container tightly closed.
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Honeywell SAFETY DATA SHEET n-Propyl Alcohol LP322-4 Version 2.0 Revision Date 06/13/2019 Print Date 10/17/2019 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 100.00 % Propan-1-ol 71-23-8 **SECTION 4. FIRST AID MEASURES** Remove to fresh air. If not breathing, give artificial respiration. If Inhalation : 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. : Do not induce vomiting without medical advice. Immediate Ingestion medical attention is required. Never give anything by mouth to an unconscious person. Call a physician. Notes to physician Indication of immediate : Treat symptomatically. medical attention and special treatment needed, if necessary Page 3 / 14

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Suitable extinguishing media	 Alcohol-resistant foam Carbon dioxide (CO2) Dry chemical Cool closed containers exposed to fire with water spray.
Jnsuitable extinguishing nedia	: Do not use a solid water stream as it may scatter and spread fire.
Specific hazards during irefighting	 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 or firefighters	: Wear self-contained breathing apparatus and protective suit.
FION 6. ACCIDENTAL RELE	ASE MEASURES
Personal precautions, protective equipment and	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. Avoid contact with skin, eyes and clothing.
FION 6. ACCIDENTAL RELE 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.

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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- material, (e.g. sand, earth, diatomat transfer to a container for disposal regulations (see section 13).	ceous earth, vermiculite) and
ECTION 7. HANDLING AND ST	ORAGE	
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 gate Avoid contact with skin, eyes and contact 	as.
Advice on protection against fire and explosion	 Keep away from fire, sparks and he Take precautionary measures agai Ensure all equipment is electrically transfer operations. Use explosion-proof equipment. Keep product and empty container of ignition. No sparking tools should be used. No smoking. 	nst static discharges. grounded before beginning
Storage		
Conditions for safe storage, including any incompatibilities	 Store in area designed for storage of from physical damage. Keep containers tightly closed in a place. Containers which are opened must kept upright to prevent leakage. Keep away from heat and sources Keep away from direct sunlight. Store away from incompatible subs Container hazardous when empty. Do not pressurize, cut, weld, braze 	dry, cool and well-ventilated be carefully resealed and of ignition.
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		containers to heat or sources of ignition	1.
SECTION 8. EXPOSURE CONT	ROL	S/PERSONAL PROTECTION	
Protective measures	:	Ensure that eyewash stations and safe the workstation location.	ty showers are close to
Engineering measures	:	Use with local exhaust ventilation. Prevent vapour buildup by providing ad and after use.	equate ventilation during
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	e 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 clo If splashes are likely to occur, wear: Protective suit	othing.
Respiratory protection	:	In case of insufficient ventilation, wear equipment. For rescue and maintenance work in st self-contained breathing apparatus. Use NIOSH approved respiratory prote	orage tanks use
Hygiene measures	:	When using, do not eat, drink or smoke Wash hands before breaks and immed product. Keep working clothes separately. Remove and wash contaminated clothi Do not swallow. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clothi	iately after handling the ng before re-use.
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Exposure Guide					
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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	: liquid, clear
Color	: colourless
Odor	: alcohol-like
Odor threshold	: Note: no data available
рН	: 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
_ower explosion limit	: 2.2 %(V)
Jpper explosion limit	: 13.7 %(V)
√apor pressure	: 20 hPa at 20 °C(68 °F)
√apor 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: n	o data available	
Ignition temperature	: 412 °C		
Decomposition temperature	: Note: n	o data available	
Viscosity, dynamic	: Note: n	o data available	
Viscosity, kinematic	: Note: n	o data available	
Molecular weight	: 60.09 g	/mol	
CTION 10. STABILITY AND R			
Reactivity	-	ssified as a reactivity hazard	l.
Chemical stability	: Stable	under recommended storage	e conditions.
Possibility of hazardous reactions	: Hazard	ous polymerisation does not	occur.
Conditions to avoid		ames and sparks. way from direct sunlight.	
Incompatible materials	Strong Amines	ng agents acids and strong bases ack many plastics, rubbers a	and coatings.
Hazardous decomposition products	produce Carbon	of fire hazardous decompos ed such as: monoxide dioxide (CO2)	sition products may be
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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 : Species: Rabbit Skin irritation 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** Page 10 / 14

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Toxicity to fish		Expos	4,480 mg/l ure time: 96 h es: Pimephales promelas (fath	nead minnow)			
			: LC50: 4.3 g/l Exposure time: 48 h Species: Leuciscus idus (Golden orfe)				
Toxicity to daphnia and other aquatic invertebrates		Expos	: EC50: 3,644 mg/l Exposure time: 48 h Species: Daphnia magna (Water flea)				
Further	information on ecold	ogy					
Additiona informati	al ecological on		cumulation is unlikely. ntly biodegradable.				
Disposal	methods	: Obser regula	ve all Federal, State, and Loc tions.	al Environmental			
ECTION 14	. TRANSPORT INFO	RMATION					
DOT	UN/ID No. Proper shipping na Class Packing group Hazard Labels	ame	: UN 1274 : n-Propanol 3 III 3				
ΙΑΤΑ	UN/ID No. Description of the Class Packaging group Hazard Labels Packing instructior aircraft) Packing instructior (passenger aircraf	n (cargo	: UN 1274 : n-Propanol : 3 : III : 3 : 366 : 355				
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		Packing instruction (passenger aircra		: Y344	
IN	/IDG	UN/ID No. Description of the Class Packaging group Hazard Labels EmS Number Marine pollutant	-	: UN 1274 nods : n-Propanol : 3 : III : 3 : F-E, S-D : no	
SECTI	ION 15. R		FOR	RMATION	
In	ventorie	S			
	S. Toxic S ontrol Act	Substances	:	On TSCA Inventory	
C	ustralia. Iı hemical (ssessmer	Notification and	:	On the inventory, or in compliance with the inv	entory
Ei Ad	ct (CEPA)	anadian ntal Protection). Domestic s List (DSL)	:	All components of this product are on the Can	adian DSL
Ja	apan. Kas	hin-Hou Law List	:	On the inventory, or in compliance with the inv	entory
	orea. Exis iventory (I	sting Chemicals KECI)	:	On the inventory, or in compliance with the inv	entory
Si ar	ubstances	. The Toxic s and Hazardous ar Waste Control	:	On the inventory, or in compliance with the inv	entory
		entory of Existing Substances	:	On the inventory, or in compliance with the inv	entory
N	ZIOC - Ne	ew Zealand	:	On the inventory, or in compliance with the inv	entory
N	ational re	egulatory informa	tio	n	
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SARA 302 Components		in this material are subj of SARA Title III, Sectic		
SARA 313 Components	known CAS n	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 I	Hazard		
California Prop. 65	California to c	: 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	
CTION 16. OTHER INFORM				
	HMIS III	NFPA		
Health hazard	: 2*	1		
Flammability	: 3	3		
Physical Hazard	: 0	0		
Instability	:	0		
* - Chronic health hazard				
Hazard rating and rating sy of individuals trained in the		II, NFPA): This informat	tion is intended solely for the	
Further information				
The information provided ir	this Safety Data Sh	neet is correct to the be	st of our knowledge, informat	
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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

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