# Honeywell

#### LC015-2.5 ACETONITRILE

Version 2.1		Revision Date 11/30/2015	Print Date 02/25/2016
SECTION 1. PRODUCT AND CO	MPAN	Y IDENTIFICATION	
Product name	: A	cetonitrile	
Number	: 00	00000011306	
Product Use Description	: S	olvent	
Manufacturer or supplier's details	1	oneywell International Inc. 15 Tabor Road Iorris Plains, NJ 07950-2546	
For more information call	+	-800-368-0050 1-231-726-3171 /londay-Friday, 9:00am-5:00pm)	
In case of emergency call	: M : T	ledical: 1-800-498-5701 or +1-303-389 ransportation (CHEMTREC): 1-800-4 27-3887	
	: : (2	4 hours/day, 7 days/week)	
SECTION 2. HAZARDS IDENTIF	ICATIO	ON .	
Emergency Overview			
Form	: 1	iquid	
Color	: 0	colourless	
Odor	: 9	sweet ether-like	
Classification of the substa	nce o	r mixture	
Classification of the substance or mixture		Flammable liquids, Category 2 Acute toxicity, Category 4, Oral Acute toxicity, Category 4, Inhalation Eye irritation, Category 2A Specific target organ toxicity - single e Central nervous system	exposure, Category 1,
GHS Label elements, inclu	ding p	recautionary statements	
		Page 1 / 13	

Honeywell

#### LC015-2.5 ACETONITRILE

00	0000	0011	306

Symbol(s)       : with the symbol is the symbo	sion 2.1	Revision Date 11/30/2015	Print Date 02/25/2
Hazard statements       : Highly flammable liquid and vapour. Harmful if swallowed or if inhaled Causes serious eye irritation. Causes damage to organs.         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. Do not breathe dust/fume/ gas/ mist/vapours/ spray. Wash skin thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/ eye protection/ face protection.         Response: IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. IF ON SKIN (or hai): 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. IF weposed: Call a POISON CENTER or doctor/ physician. Rinse mouth. If eye irritation persists: Get medical advice/ attention. In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.         Storage: Disposel       Storage contentiated place. Keep cool. Store in a well-ventilated place. Keep cool. Store go of contents/ container to an approved waste disposal	Symbol(s)		
Harmful if swallowed or if inhaled Causes serious eye irritation.         Causes damage to organs.         Precautionary statements <b>Precountion:</b> 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 explosion-proof electrical/ ventilating/ lighting/ equipment.         Use only non-sparking tools.         Take precautionary measures against static discharge.         Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.         Wash skin thoroughly after handling.         Do not teat, drink or smoke when using this product.         Use only outdoors or in a well-ventilated area.         Wear protective gloves/ eye protection/ face protection. <b>Response:</b> IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.         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.         IF exposed: Call a POISON CENTER or doctor/ physician.         Rinse mouth. <td>Signal word</td> <td>: Danger</td> <td></td>	Signal word	: Danger	
<ul> <li>Keep away from heat/sparks/open flames/hot surfaces No smoking.</li> <li>Keep container tightly closed.</li> <li>Ground/bond container and receiving equipment.</li> <li>Use explosion-proof electrical/ventilating/ lighting/ equipment.</li> <li>Use only non-sparking tools.</li> <li>Take precautionary measures against static discharge.</li> <li>Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.</li> <li>Wash skin thoroughly after handling.</li> <li>Do not breat, drink or smoke when using this product.</li> <li>Use only outdoors or in a well-ventilated area.</li> <li>Wear protective gloves/ eye protection/ face protection.</li> <li><b>Response:</b></li> <li>IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell.</li> <li>IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.</li> <li>IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.</li> <li>IF exposed: Call a POISON CENTER or doctor/ physician. Rinse mouth.</li> <li>If eye irritation persists: Get medical advice/ attention.</li> <li>In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.</li> </ul>	Hazard statements	Harmful if swallowed or if inhaled Causes serious eye irritation.	Jr.
	Precautionary statements	<ul> <li>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 Do not breathe dust/ fume/ gas/ m Wash skin thoroughly after handlind Do not eat, drink or smoke when of Use only outdoors or in a well-ven Wear protective gloves/ eye prote</li> <li>Response: IF SWALLOWED: Call a POISON physician if you feel unwell. 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. IF exposed: Call a POISON CENT Rinse mouth. If eye irritation persists: Get medic In case of fire: Use dry sand, dry of foam for extinction.</li> <li>Storage: Store in a well-ventilated place. K Store locked up.</li> <li>Disposal: Dispose of contents/ container to</li> </ul>	ving equipment. ntilating/ lighting/ equipment. ainst static discharge. nist/ vapours/ spray. ng. using this product. ntilated area. action/ face protection. I CENTER or doctor/ ake off immediately all n with water/ shower. esh air and keep at rest in a n water for several minutes. t and easy to do. Continue TER or doctor/ physician. cal advice/ attention. chemical or alcohol-resistant

SAFETY DATA SHEE	Т			Honeywell
LC015-2.5 ACETONITRILE				
00000011306				
Version 2.1		Revision Date 11/3	80/2015	Print Date 02/25/2016
Carcinogenicity				
No component of this produc or anticipated carcinogen by			than or equal to 0.7	1% is identified as a known
SECTION 3. COMPOSITION/IN	Fori	MATION ON INGREDI	ENTS	
Formula		C2H3N		
Chemical nature		Substance		
Chemical	Nam	e	CAS-No.	Concentration
Acetonitrile			75-05-8	100.00 %
SECTION 4. FIRST AID MEASU	IRES :	Remove to fresh air. If breathing is difficult provided a qualified c	, give oxygen. Use	
Skin contact	:	Wash off immediately minutes. Take off cor immediately. Wash co physician.	taminated clothing	
Eye contact	:	Rinse immediately wi for at least 15 minute		also under the eyelids,
Ingestion	:	Call a physician. Do nadvice. Immediate manything by mouth to	edical attention is i	equired. Never give
Notes to physician				
Treatment	:	Treat as cyanide pois appear for several ho at least 48 hours.		of poisoning may not nedical supervision for
SECTION 5. FIREFIGHTING M	EASL	IRES		
Suitable extinguishing medi	a	Carbon dioxide (CO2 Dry chemical	2)	
		Page 3 / 13		

## Honeywell

#### LC015-2.5 ACETONITRILE

### 000000011306

Version 2.1	Revision Date 11/30/2015	Print Date 02/25/2016
	Alcohol-resistant foam Cool closed containers exposed to fi	re with water spray.
Unsuitable extinguishing media	: Do not use a solid water stream as it fire.	may scatter and spread
Specific hazards during firefighting	<ul> <li>Flammable.</li> <li>Vapours may form explosive mixture Vapours are heavier than air and ma Vapors may travel to areas away from igniting/flashing back to vapor source In case of fire hazardous decomposite produced such as:</li> <li>Hydrogen cyanide (hydrocyanic acid Carbon dioxide (CO2), carbon mono nitrogen (NOx), dense black smoke.</li> </ul>	ny spread along floors. m work site before e. tion products may be )
Special protective equipment for firefighters	: Wear self-contained breathing appar	atus 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.
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).
		Page 4 / 13

# Honeywell

#### LC015-2.5 ACETONITRILE

rsion 2.1	Revision Date 11/30/2015	Print Date 02/25/20
CTION 7. HANDLING AND S	TORAGE	
Handling		
Handling	<ul> <li>Wear personal protective equipment Use only in well-ventilated areas. Keep container tightly closed. Do not smoke.</li> <li>Do not swallow.</li> <li>Avoid breathing vapours, mist or gas Avoid contact with skin, eyes and closed.</li> </ul>	5.
Advice on protection against fire and explosion	<ul> <li>Keep away from fire, sparks and hear Take precautionary measures agains Ensure all equipment is electrically of transfer operations. Use explosion-proof equipment. Keep product and empty container a sources of ignition. No sparking tools should be used. No smoking.</li> </ul>	st static discharges. grounded before beginning
Storage		
Requirements for storage areas and containers	<ul> <li>Store in area designed for storage of Protect from physical damage.</li> <li>Keep containers tightly closed in a diplace.</li> <li>Containers which are opened must likept upright to prevent leakage.</li> <li>Keep away from heat and sources of Keep away from direct sunlight.</li> <li>Store away from incompatible substances.</li> <li>Container hazardous when empty.</li> <li>Do not pressurize, cut, weld, braze, expose containers to heat or sources</li> </ul>	ry, cool and well-ventilated be carefully resealed and f ignition. ances. solder, drill, grind or
CTION 8. EXPOSURE CONT	ROLS/PERSONAL PROTECTION	
Protective measures	: Ensure that eyewash stations and s the workstation location.	afety showers are close to
Engineering measures	: Use with local exhaust ventilation. Prevent vapour buildup by providing during and after use.	adequate ventilation
Eye protection	: Do not wear contact lenses.	

## Honeywell

#### LC015-2.5 ACETONITRILE

#### 000000011306

Version 2.1	Revision Date 11/30/2015	Print Date 02/25/2016
V0131011 2.1	Wear as appropriate: Safety glasses with side-shields If splashes are likely to occur, wear: Goggles or face shield, giving complete	
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 cl 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 s contained breathing apparatus. Use NIOSH approved respiratory prote	torage tanks use self-
Hygiene measures :	<ul> <li>When using do not eat, drink or smoke Wash hands before breaks and immed product.</li> <li>Keep working clothes separately.</li> <li>Remove and wash contaminated cloth Do not swallow.</li> <li>Avoid breathing vapours, mist or gas.</li> <li>Avoid contact with skin, eyes and cloth</li> </ul>	liately after handling the ing before re-use.

#### Exposure Guidelines

Components	CAS-No.	Value	Control parameters	Upda te	Basis
Acetonitrile	75-05-8	TWA : Time weighted average	(20 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
Acetonitrile	75-05-8	SKIN_DE S : Skin designati on:	Can be absorbed through the skin.	2008	ACGIH:US. ACGIH Threshold Limit Values
Acetonitrile	75-05-8	REL : Recomm ended exposure limit (REL):	34 mg/m3 (20 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards

## Honeywell

#### LC015-2.5 ACETONITRILE

rsion 2.1		Revision Date	11/30/2015		Print Date 02/25/20
Acetonitrile	75-05-8	PEL : Permissi ble exposure limit	70 mg/m3 (40 ppm)	02 2006	OSHA_TRANS:US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Acetonitrile	75-05-8	TWA : Time weighted average	70 mg/m3 (40 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Acetonitrile	75-05-8	STEL : Short term exposure limit	105 mg/m3 (60 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
CTION 9. PHYSICAL AN Physical state		liquid	ES		
Color	:	colourless			
Odor	:	sweet ether-like			
pH	:	Note: Not applie	cable		
Melting point/range	:	-46 °C			
Boiling point/boiling rang	je :	82 °C at 1,013	nPa		
Flash point	:	43 °F (6 °C) Method: open c	cup		
Evaporation rate	:	5 Method: Compa	ared to Butyl ac	etate.	
Lower explosion limit	:	3 %(V)			
Upper explosion limit	:	16 %(V)			
	:	97.3 hPa			

## Honeywell

#### LC015-2.5 ACETONITRILE

ersion 2.1	Revision Date 11/30/2015	Print Date 02/25/201
	at 20 °C(68 °F)	
Vapor density	: 1.42 Note: (Air = 1.0)	
Density	: 0.7822 g/cm3 at 20 °C	
Water solubility	: Note: completely soluble	
Ignition temperature	: 524 °C	
Molecular weight	: 41 g/mol	
ECTION 10. STABILITY AND R	EACTIVITY	
Chemical stability	: Stable under normal conditions.	
Possibility of hazardous reactions	: Hazardous polymerisation does not	occur.
Conditions to avoid	: Heat, flames and sparks. Keep away from direct sunlight.	
Incompatible materials to avoid	: Acids Bases Oxidizing agents Reducing agents Sulfites Perchlorates May attack many plastics, rubbers a	nd coatings.
Hazardous decomposition products	<ul> <li>In case of fire hazardous decomposi produced such as: Hydrogen cyanide (hydrocyanic acid Carbon dioxide (CO2), carbon mono nitrogen (NOx), dense black smoke.</li> </ul>	d) oxide (CO), oxides of
ECTION 11. TOXICOLOGICAL		

## Honeywell

#### LC015-2.5 ACETONITRILE

00000011300					
Version 2.1	Revision Date 11/30/2015	Print Date 02/25/2016			
Acute oral toxicity	: LD50: 617 mg/kg Species: Mouse, male and female Method: OECD Test Guideline 401				
Acute inhalation toxicity	: LC50: 3587 ppm, vapour Exposure time: 4 h Species: Mouse, male and female Method: OECD Test Guideline 403				
Acute dermal toxicity	: LD50: > 2,000 mg/kg Species: Rabbit				
Skin irritation	: Species: Rabbit Result: No skin irritation Method: OECD Test Guideline 404 Exposure time: 4 h				
Eye irritation	: Species: Rabbit Result: Irritating to eyes. Method: OECD Test Guideline 405				
Sensitisation	: Buehler Test Species: Guinea pig Result: Did not cause sensitisation on Method: OECD	laboratory animals.			
Further information	: STOT - single exposure: The substar classified as specific target organ toxi category 1. May cause convulsions. M effects. Based on Human Evidence.	cant, single exposure,			
SECTION 12. ECOLOGICAL INFORMATION					
Ecotoxicity effects					
Toxicity to fish	: flow-through test LC50: 1,640 mg/l Exposure time: 96 h Species: Pimephales promelas (father	ad minnow)			
	Page 9 / 13				

# Honeywell

#### LC015-2.5 ACETONITRILE

000001	11306		
ersion 2.1		Revision Date 11/30/2015	Print Date 02/25/201
Toxicity t Acetonitr	ile : s F S E E E E	static test NOEC: 400 mg/l Exposure time: 72 h Species: Phaeodactylum tricornutum static test ErC50: 9,696 mg/l Exposure time: 72 h Species: Phaeodactylum tricornutum	
Further i	information on ecology		
	DISPOSAL CONSIDERAT		Environmentel
		Dbserve all Federal, State, and Local egulations.	Envionmental
CTION 14.	TRANSPORT INFORMAT	TION	
DOT	UN/ID No. Proper shipping name Class Packing group Hazard Labels	: UN 1648 : ACETONITRILE 3 II 3	
ΙΑΤΑ	UN/ID No. Description of the good Class Packaging group Hazard Labels Packing instruction (car aircraft) Packing instruction (passenger aircraft) Packing instruction (passenger aircraft)	: 3 : II : 3	
IMDG	UN/ID No. Description of the good Class Packaging group Hazard Labels EmS Number Marine pollutant	: UN 1648 s : ACETONITRILE : 3 : II : 3 : F-E, S-D : no	

## Honeywell

#### LC015-2.5 ACETONITRILE

ersion 2.1		Revision Date 11/30/2015	Print Date 02/25/2016	
ECTION 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 wit	th 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 wit	th the inventory	
Korea. Toxic Chemical Control Law (TCCL) List	:	On the inventory, or in compliance wit	th the inventory	
Philippines. The Toxic Substances and Hazardous and Nuclear Waste Control Act	:	On the inventory, or in compliance wit	th the inventory	
China. Inventory of Existing Chemical Substances	:	On the inventory, or in compliance wit	th the inventory	
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	:	On the inventory, or in compliance wit	th the inventory	
National regulatory information				
US. EPA CERCLA : The following component(s) of this product is/are subject release reporting under 40 CFR 302 when release excert Reportable Quantity (RQ):				
	:	Reportable quantity: 5000 lbs Acetonitrile	75-05-8	
SARA 302 Components	:	No chemicals in this material are subjurt requirements of SARA Title III, Section		
SARA 313 Components	:	The following components are subject	t to reporting levels	
		Page 11 / 13		

## Honeywell

LC015-2.5 ACETONITRILE

sion 2.1		Date 11/30/2015	Print Date 02/25/20
		by SARA Title III, Section	
	: Acetonitrile		75-05-8
SARA 311/312 Hazards	: Fire Hazard		
	Acute Healt		
	Chronic Hea	alth Hazard	
CERCLA Reportable	: 5000 lbs		
Quantity			
California Prop. 65	· WARNING!	This product contains a	chemical known to the
		ifornia to cause cancer.	
	Acrylonitril	е	107-13-1
	A		75.05.0
Massachusetts RTK	: Acetonitrile		75-05-8
New Jersey RTK	: Acetonitrile		75-05-8
Pennsylvania RTK	: Acetonitrile		75-05-8
WHMIS Classification	D1A: Very T Effects D2B: Toxic This produc of the CPR	<ul> <li>B2: Flammable liquid D1A: Very Toxic Material Causing Immediate and Serious Toxic Effects</li> <li>D2B: Toxic Material Causing Other Toxic Effects</li> <li>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.</li> </ul>	
TION 16. OTHER INFORM	IATION HMIS III	NFPA	
Health hazard	: 2*	2	
Flammability	: 3	3	
Physical Hazard	: 0	0	
Instability	:	0	
* - Chronic health hazard			
Hazard rating and rating s use of individuals trained i			nation is intended solely for the
		ige 12 / 13	

SAFETY DATA SHEE	ΞT	Honeywell
LC015-2.5 ACETONITRILE		
00000011306		
Version 2.1	Revision Date 11/30/20	15 Print Date 02/25/2016
Further information		
information and belief at th guidance for safe handling to be considered a warrant material designated and m materials or in any process	, use, processing, storage, transp y or quality specification. The info nay not be valid for such material o s, unless specified in the text. Fin sibility of the user. This informatio	t to the best of our knowledge, mation given is designed only as a portation, disposal and release and is not prmation relates only to the specific used in combination with any other al determination of suitability of any on should not constitute a guarantee for
Changes since the last ver versions.	sion are highlighted in the margin	n. This version replaces all previous
Previous Issue Date: 11/1 Prepared by Honeywell Pe		ogies Product Stewardship Group