Honeywell

Acetone

Version 1.7 Revision Date 05/07/2019 Print Date 06/28/2019 **SECTION 1. IDENTIFICATION** Product name : Acetone Number 00000011300 ÷ Product Use Description 1 Solvent Manufacturer or supplier's Honevwell International Inc. 1 details 1953 South Harvey Street Muskegon, MI 49442 For more information call 1-800-368-0050 2 +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** : liquid, clear Form Color : colourless Odor : sweet mint-like Classification of the substance or mixture Classification of the substance : Flammable liquids, Category 2 Eye irritation, Category 2A or mixture Specific target organ toxicity - single exposure, Category 3, Central nervous system GHS Label elements, including precautionary statements Page 1 / 15

Honeywell SAFETY DATA SHEET Acetone AH010-4 Version 1.7 Print Date 06/28/2019 Revision Date 05/07/2019 Symbol(s) Signal word : Danger Hazard statements : Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness or dizziness. : Prevention: Precautionary statements 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/ protective clothing/ 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/doctor if you feel unwell. If eve 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. Disposal: Dispose of contents/ container to an approved waste disposal

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	pla	nt.	
Carcinogenicity			
			0.1% is identified as a known or
SECTION 3. COMPOSITION/I	NFORMATIO	ON ON INGREDIENTS	
Synonyms		tone NF, 2-Propanone, Diethyl ethylformaldehyde, Pyroacetic a	
Formula	: C3H	160	
Chemical nature	: Sub	stance	
Chemic	al name	CAS-No.	Concentration
Acetone		67-64-1	100.00 %
SECTION 4. FIRST AID MEAS	URES		
Inhalation	breat	ove to fresh air. If not breathing thing is difficult, give oxygen. Us ided a qualified operator is prese	se oxygen as required,
Skin contact	minu Was	h off immediately with plenty of ttes. Take off contaminated cloth h contaminated clothing before tion develops or persists.	ing and shoes immediately.
Eye contact		e immediately with plenty of wat t least 15 minutes. Call a physic	
Ingestion	vomi posit	ot induce vomiting without medi ts when lying on his back, place ion. Never give anything by mor on. Call a physician.	him in the recovery
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Notes to physician	
Indication of immediate medical attention and special treatment needed, if necessary	: Treat symptomatically.
SECTION 5. FIREFIGHTING MEA	SURES
Suitable extinguishing media	: Dry chemical Foam Carbon dioxide (CO2) 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	 Extremely 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 RELE	ASE MEASURES
Personal precautions, protective equipment and emergency procedures	 Wear personal protective equipment. Unprotected persons must be kept away. 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.
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Environmental precautions	:	Prevent further leakage or spillage if sa Prevent product from entering drains. Discharge into the environment must be Do not flush into surface water or sanita Do not allow run-off from fire fighting to courses.	e avoided. ary sewer system.
Methods and materials for containment and cleaning up	:	Ventilate the area. No sparking tools should be used. Use explosion-proof equipment. Contain spillage, and then collect with r absorbent material, (e.g. sand, earth, di vermiculite) and place in container for d local / national regulations (see section	iatomaceous earth, lisposal according to
ECTION 7. HANDLING AND ST Handling Precautions for safe handling	:	AGE 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 clothi	ng.
Advice on protection against	:	Keep away from fire, sparks and heated Take precautionary measures against s	
fire and explosion		Ensure all equipment is electrically grout transfer operations. Use explosion-proof equipment. Keep product and empty container awa of ignition. No sparking tools should be used. No smoking.	unded before beginning
fire and explosion Storage		transfer operations. Use explosion-proof equipment. Keep product and empty container awa of ignition. No sparking tools should be used.	unded before beginning
	:	transfer operations. Use explosion-proof equipment. Keep product and empty container awa of ignition. No sparking tools should be used.	unded before beginning y from heat and sources mmable liquids. Protect

plac Con kep Kee Stor Con Do r con ECTION 8. EXPOSURE CONTROLS/PE Protective measures : Ens the Engineering measures : Use Prev and Eye protection : Use Prev and Eye protection : Do r Wea Safe If sp Gog Hand protection : Solv Glov Rep Skin and body protection : Wea	tainers which are opened must be carefully resealed and a upright to prevent leakage. p away from heat and sources of ignition. p away from direct sunlight. e away from incompatible substances. tainer hazardous when empty. not pressurize, cut, weld, braze, solder, drill, grind or expose ainers to heat or sources of ignition.
ersion 1.7 Registration place Consider Kee Kee Protective measures Ens Engineering measures Use Prevand Do n Wea Safe If sp Gog Hand protection Solv Skin and body protection Wea	e. tainers which are opened must be carefully resealed and upright to prevent leakage. p away from heat and sources of ignition. p away from direct sunlight. e away from incompatible substances. tainer hazardous when empty. hot pressurize, cut, weld, braze, solder, drill, grind or expose ainers to heat or sources of ignition. ERSONAL PROTECTION ure that eyewash stations and safety showers are close to workstation location. with local exhaust ventilation. //ent vapour buildup by providing adequate ventilation during after use. hot wear contact lenses. ar as appropriate: ety glasses with side-shields
rersion 1.7 Ref place Con Keep Kee Kee Kee Protective measures Ens Engineering measures Use Prevand Do n Wea Safe If sp Gog Hand protection Solv Skin and body protection Wea	e. tainers which are opened must be carefully resealed and upright to prevent leakage. p away from heat and sources of ignition. p away from direct sunlight. e away from incompatible substances. tainer hazardous when empty. hot pressurize, cut, weld, braze, solder, drill, grind or expose ainers to heat or sources of ignition. ERSONAL PROTECTION ure that eyewash stations and safety showers are close to workstation location. with local exhaust ventilation. //ent vapour buildup by providing adequate ventilation during after use. hot wear contact lenses. ar as appropriate: ety glasses with side-shields
Section 8. Exposure controls/performance Protective measures : Engineering measures : Eye protection : Use protection : Do not control Weak Safe If sp Gog Hand protection : Skin and body protection : Weak Safe Skin and body protection :	tainers which are opened must be carefully resealed and cupright to prevent leakage. p away from heat and sources of ignition. p away from direct sunlight. e away from incompatible substances. tainer hazardous when empty. not pressurize, cut, weld, braze, solder, drill, grind or expose ainers to heat or sources of ignition. ERSONAL PROTECTION ure that eyewash stations and safety showers are close to workstation location. with local exhaust ventilation. vent vapour buildup by providing adequate ventilation during after use. hot wear contact lenses. ar as appropriate: ety glasses with side-shields
the Engineering measures : Use Prevand Eye protection : Do n Wea Safe If sp Gog Hand protection : Solv Glov Rep Skin and body protection : Wea	ure that eyewash stations and safety showers are close to workstation location. with local exhaust ventilation. vent vapour buildup by providing adequate ventilation during after use. not wear contact lenses. ar as appropriate: ety glasses with side-shields
the Engineering measures : Use Prevand Eye protection : Do n Wea Safe If sp Gog Hand protection : Solv Glov Rep Skin and body protection : Wea	workstation location. with local exhaust ventilation. vent vapour buildup by providing adequate ventilation during after use. not wear contact lenses. ar as appropriate: ety glasses with side-shields
Prevand Eye protection : Don Wea Safe If sp Gog Hand protection : Solv Glov Rep Skin and body protection : Wea	vent vapour buildup by providing adequate ventilation during after use. not wear contact lenses. ar as appropriate: ety glasses with side-shields
Wea Safe If sp Gog Hand protection : Solv Glov Rep Skin and body protection : Wea	ar as appropriate: ety glasses with side-shields
Glov Rep Skin and body protection : Wea	gles or face shield, giving complete protection to eyes
	rent-resistant gloves res must be inspected prior to use. lace when worn.
Flar If sp	ar as appropriate: rent-resistant apron ne retardant antistatic protective clothing. lashes are likely to occur, wear: ective suit
app For self	te case of vapour formation use a respirator with an roved filter. rescue and maintenance work in storage tanks use contained breathing apparatus. NIOSH approved respiratory protection.
	en using, do not eat, drink or smoke. sh hands and face before breaks and immediately after
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Evenenue Quide	Ke Re Do Av Av	emove and wa o not swallow. roid breathing	duct. othes separately ish contaminated vapours, mist or ith skin, eyes and	l clothing gas.	
Exposure Guide Components	CAS-No.	Value	Control parameters	Upda te	Basis
Acetone	67-64-1	TWA : Time weighted average	(250 ppm)	03 2015	ACGIH:US. ACGIH Threshold Limit Values
Acetone	67-64-1	STEL : Short term exposure limit	(500 ppm)	03 2015	ACGIH:US. ACGIH Threshold Limit Values
Acetone	67-64-1	REL : Recomm ended exposure limit (REL):	590 mg/m3 (250 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Acetone	67-64-1	PEL : Permissi ble exposure limit	2,400 mg/m3 (1,000 ppm)	02 2006	OSHA_TRANS:US OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)
Acetone	67-64-1	TWA : Time weighted average	1,800 mg/m3 (750 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Acetone	67-64-1	STEL : Short term exposure limit	2,400 mg/m3 (1,000 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
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SECTION 9. PHYSICAL AND C	IEMICAL PROPERTIES	
Physical state	: liquid, clear	
Color	: colourless	
Odor	: sweet mint-like	
Odor threshold	: Note: no data available	
рН	: Note: Not applicable	
Melting point/range	: -94.8 °C	
Boiling point/boiling range	: 56 °C	
Flash point	: -4 °F (-20 °C) Method: closed cup	
Evaporation rate	: Note: no data available	
Lower explosion limit	: 2.5 %(V)	
Upper explosion limit	: 13 %(V)	
Vapor pressure	: 240 hPa at 20 °C(68 °F)	
Vapor density	: 2.0 Note: (Air = 1.0)	
Density	: 0.79 g/cm3 at 20 °C	
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Vater solubility	:	Note: completely soluble	
Partition coefficient: n-octanol/water	:	Pow: 0.58 log Pow: -0.24	
gnition temperature	:	465 °C	
Decomposition temperature	:	Note: no data available	
/iscosity, dynamic	:	Note: no data available	
/iscosity, kinematic	:	Note: no data available	
Molecular weight	:	58.08 g/mol	
TION 10. STABILITY AND RI		TIVITY Not classified as a reactivity hazard.	
Chemical stability		Stable under normal conditions.	
Possibility of hazardous	:	Hazardous polymerisation does not occur.	
eactions Conditions to avoid	:	Heat, flames and sparks. Keep away from direct sunlight.	
ncompatible materials	:	Acids Aldehydes Alkalis Amines Ammonia Oxidizing agents Reducing agents Chlorine compounds	
Hazardous decomposition products	:	In case of fire hazardous decomposition produced such as: Carbon monoxide	oducts may be
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	Carbon dioxide (CO2)	
SECTION 11. TOXICOLOGICAL	INFORMATION	
Acute oral toxicity	: LD50: 5,800 mg/kg Species: Rat	
Acute inhalation toxicity	: LC50: 32000 ppm Exposure time: 4 h Species: Rat	
Acute dermal toxicity	: LD50: > 7,426 mg/kg Species: Guinea pig	
Skin irritation	: Species: Rabbit Result: Mild skin irritation Exposure time: 24 h	
Eye irritation	: Species: Rabbit Result: Irritation to eyes, reversing	within 7 days
Repeated dose toxicity	: Species: Rat NOEL: 19000 ppm Note: 8-Week Inhalation Toxicity St weeks Slightly reduced weight gain	tudy 5 days/week for 8 compared to controls
	: Species: Rat NOEL: 100 mg/kg/d Note: 90-Day Oral Toxicity Study ir weights	ncreased liver and kidney
	: Species: Rat Lowest observed effect level: 500 Note: 90-Day Oral Toxicity Study ir weights	
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Genotoxicity in vitro	 Result: negative Method: Mutagenicity (Salmonella typhimurium - reverse mutation assay) Result: negative Method: Chromosome aberration test in vitro Result: negative Method - Device - Artice
	Method: Point mutation Note: Mouse lymphoma cells : Result: negative Method: DNA cell-binding Assay
Ecotoxicity effects	
	 : LC50: 5,540 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) : LC50: 8,300 mg/l Exposure time: 96 h
-	 LC50: 5,540 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) LC50: 8,300 mg/l
Ecotoxicity effects Toxicity to fish Toxicity to daphnia and other	 : LC50: 5,540 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) : LC50: 8,300 mg/l Exposure time: 96 h Species: Lepomis macrochirus (Bluegill sunfish) : LC50: 10 mg/l Exposure time: 24 h
Ecotoxicity effects Toxicity to fish Toxicity to daphnia and other aquatic invertebrates	 : LC50: 5,540 mg/l Exposure time: 96 h Species: Oncorhynchus mykiss (rainbow trout) : LC50: 8,300 mg/l Exposure time: 96 h Species: Lepomis macrochirus (Bluegill sunfish) : LC50: 10 mg/l Exposure time: 24 h Species: Daphnia magna (Water flea) : EC50: 3,020 mg/l Exposure time: 14 d

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	ion information (persisten		
Biodegra	Re Va	aerobic esult: Readily biodegradable alue: 78 % ethod: OECD 301 D	
Further i	nformation on ecology		
ECTION 13.	DISPOSAL CONSIDERAT	IONS	
Disposal		oserve all Federal, State, and Loc gulations.	al Environmental
SECTION 14.	TRANSPORT INFORMATI	ON	
DOT	UN/ID No. Proper shipping name Class Packing group Hazard Labels	: UN 1090 : ACETONE 3 II 3	
ΙΑΤΑ	UN/ID No. Description of the goods Class Packaging group Hazard Labels Packing instruction (carg aircraft) Packing instruction (passenger aircraft) Packing instruction (passenger aircraft)	: 3 : II : 3	
IMDG	UN/ID No. Description of the goods Class Packaging group Hazard Labels EmS Number	: UN 1090 : ACETONE : 3 : II : 3 : F-E, S-D	
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Marine pollutant	: no	
SECTION 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 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	
China. Inventory of Existing Chemical Substances	: On the inventory, or in compliance	e with the inventory
New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New Zealand	: On the inventory, or in compliance with the inventory	
National regulatory informa	tion	
US. Drug Enforcement Administration (DEA) Listed Precursor and Essential Chemicals (21 CFR 1310)	: On the United States Drug Enforce Precursors and Essential Chemica	
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Honeywell SAFETY DATA SHEET Acetone AH010-4 Version 1.7 Revision Date 05/07/2019 Print Date 06/28/2019 67-64-1 : Acetone 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 Chronic Health Hazard CERCLA Reportable : 5000 lbs Quantity 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 : Acetone 67-64-1 **New Jersey RTK** : Acetone 67-64-1 Pennsylvania RTK 67-64-1 : Acetone **SECTION 16. OTHER INFORMATION** HMIS III **NFPA** : 2* Health hazard 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. Page 14 / 15

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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

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