

R34494 Toluene pesticide uvst 1,00LFL

00000020210

Version 1.0

Revision Date 09/29/2016

Print Date 12/20/2016

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Toluene
Number Product Use Description	:	00000020210 Laboratory chemicals
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	:	sweet pungent

Classification of the substance or mixture

Classification of the	: Flammable liquids, Category 2
substance or mixture	Skin irritation, Category 2
	Reproductive toxicity, Category 2
	Specific target organ toxicity - single exposure, Category 3,
	Central nervous system
	Specific target organ toxicity - repeated exposure, Category 2,
	Central nervous system, Kidney, Liver
	Aspiration hazard, Category 1

Page 1 / 14

SAFETY DATA SHEET		Honeywell Riedel-de Haën™
34494 Toluene pesticide uvst	1,00LFL	
00000020210		
/ersion 1.0	Revision Date 09/29/2016	Print Date 12/20/2016
GHS Label elements, includ	ing precautionary statements	
Symbol(s)		
Signal word	: Danger	
Hazard statements	 Highly flammable liquid and vapou May be fatal if swallowed and enter Causes skin irritation. May cause drowsiness and dizzing Suspected of damaging fertility or May cause damage to organs thro exposure. 	ers airways. ess. the unborn child.
Precautionary statements	 Prevention: Obtain special instructions before Do not handle until all safety precaunderstood. Keep away from heat/sparks/open smoking. Keep container tightly closed. Ground/bond container and received Use explosion-proof electrical/ven Use only non-sparking tools. Take precautionary measures aga Do not breathe dust/ fume/ gas/ m Wash skin thoroughly after handling Use only outdoors or in a well-vent Wear protective gloves/protective protection. 	autions have been read and flames/hot surfaces. No ing equipment. tilating/ lighting/ equipment. inst static discharge. ist/ vapours/ spray. ng. ilated area.
	Response: IF SWALLOWED: Immediately cal IF ON SKIN (or hair): Remove/ Tal contaminated clothing. Rinse skin IF INHALED: Remove victim to fre position comfortable for breathing. IF exposed or concerned: Get med Do NOT induce vomiting. If skin irritation occurs: Get medica Take off contaminated clothing and In case of fire: Use dry sand, dry of foam for extinction.	ke off immediately all with water/ shower. sh air and keep at rest in a dical advice/ attention. al advice/ attention. d wash before reuse.
	Storage: Store in a well-ventilated place. Ke Keep cool.	eep container tightly closed.

SAFETY DATA SHEET Honeywell Riedel-de Haën™ R34494 Toluene pesticide uvst 1,00LFL 00000020210 Version 1.0 Revision Date 09/29/2016 Print Date 12/20/2016 Store locked up. Disposal: Dispose of contents/ container to an approved waste disposal 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 : C7H8 Chemical nature : Substance Chemical name CAS-No. Concentration Toluene 108-88-3 100.00 % **SECTION 4. FIRST AID MEASURES** Inhalation : Call a physician immediately. 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. 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. 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. Ingestion Do not induce vomiting without medical advice. If a person : vomits when lying on his back, place him in the recovery position. Call a physician immediately. Never give anything by mouth to an unconscious person. Page 3 / 14

SAFETY DATA SHEET		Honeywell Riedel-de Haën™
34494 Toluene pesticide uvst	1,00LFL	
0000020210		
ersion 1.0	Revision Date 09/29/2016	Print Date 12/20/2010
Notes to physician		
Treatment	: Treat symptomatically.	
ECTION 5. FIREFIGHTING MEA	SURES	
Suitable extinguishing media	: Foam Carbon dioxide (CO2) Dry chemical Cool closed containers exposed to fire	e with water spray.
Unsuitable extinguishing media	: Do not use a solid water stream as it i fire.	may scatter and spread
Specific hazards during firefighting	 Flammable. Vapours may form explosive mixtures Vapours are heavier than air and may Vapors may travel to areas away from igniting/flashing back to vapor source. In case of fire hazardous decompositi produced such as: Carbon monoxide Carbon dioxide (CO2) 	y spread along floors. a work site before
Special protective equipment for firefighters	: Wear an approved positive pressure s apparatus in addition to standard fire	
Further information	: Use extinguishing measures that are circumstances and the surrounding er	
ECTION 6. ACCIDENTAL RELEA	ASE MEASURES	
Personal precautions	 Wear personal protective equipment. Immediately evacuate personnel to sat Keep people away from and upwind of Ensure adequate ventilation. Remove all sources of ignition. Do not swallow. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and cloth 	spill/leak.
Environmental precautions	: Prevent further leakage or spillage if sa Prevent product from entering drains. Discharge into the environment must b	
	Page 4 / 14	

X34494 Toluene pesticide uvst 1,00LFL D0000020210 Version 1.0 Revision Date 09/29/2016 Print Date 12/20/20' 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 : Werhods for cleaning up : Ventilate the area. No sparking tools should be used. Use explosion-proof equipment. Contain spillage, scak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, verniculite) 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 tiphtly closed. Do not smoke. Do not smolkw. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing. Advice on protection against fire and explosion : Keep away from fire, sparks and heated surfaces. Ensure all equipment is electrically grounded before beginning transfer operation. 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 : Store in area designed for storage of flammable liquids. Protect from physical damage. Keep away from heat and sources of ignition. Keep away from direct sunlight. Store away from theat and sources of ignition. Keep away from heat and sources of ignition. Keep away from heat and sources of ignition.	SAFETY DATA SHEET	Honeywell Riedel-de Haën™
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	• •	 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.
Page 5 / 14		expose containers to heat or sources of ignition.



R34494 Toluene pesticide uvst 1,00LFL

00000020210

Version 1.0

Revision Date 09/29/2016

Print Date 12/20/2016

TION 8. EXPOSURE CONT	RULS	PERSONAL PI	ROTECTION		
Protective measures		Ensure that eyewash stations and safety showers are close to the workstation location. Legal requirements are to be considered in regard of the selection, use and care of personal protective equipment. Do not breathe vapours or spray mist.			n regard of the
Engineering measures			khaust ventilation. buildup by providir use.	ng adeq	uate ventilation
Eye protection			iate:		rotection 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			ng.
Respiratory protection : In case equipment			cient ventilation, v	wear suit	table respiratory
Hygiene measures		Wash hands befor product. Keep working clo Remove and was Do not swallow. Do not breathe v Avoid contact wit This material has The current list o http://www.aiha.co	othes separately. sh contaminated apours or spray r th skin, eyes and s an established / of ERPG exposure	nmediate clothing nist. clothing AIHA ER e limits c delineDe	PG exposure limit. an be found at evelopment/ERPG/D
Exposure Guidelines Components CAS-N		Value	Control	Upda	Basis



R34494 Toluene pesticide uvst 1,00LFL

00000020210

ion 1.0		Revision Date	9/29/2016		Print Date 12/20
Toluene	108-88-3	TWA : Time weighted average	(20 ppm)	2008	ACGIH:US. ACGIH Threshold Limit Values
Toluene	108-88-3	REL : Recomm ended exposure limit (REL):	375 mg/m3 (100 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Toluene	108-88-3	STEL : Short term exposure limit	560 mg/m3 (150 ppm)	2005	NIOSH/GUIDE:US. NIOSH: Pocket Guide to Chemical Hazards
Toluene	108-88-3	STEL : Short term exposure limit	560 mg/m3 (150 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Toluene	108-88-3	TWA : Time weighted average	375 mg/m3 (100 ppm)	1989	Z1A:US. OSHA Table Z-1-A (29 CFR 1910.1000)
Toluene	108-88-3	TWA : Time weighted average	(200 ppm)	02 2006	OSHA/Z2:US. OSHA Table Z-2 (29 CFR 1910.1000)
Toluene	108-88-3	MAX CONC : Maximum concentr ation:	(500 ppm)	02 2006	OSHA/Z2:US. OSHA Table Z-2 (29 CFR 1910.1000)
Toluene	108-88-3	Ceiling : Ceiling Limit Value:	(300 ppm)	02 2006	OSHA/Z2:US. OSHA Table Z-2 (29 CFR 1910.1000)



R34494 Toluene pesticide uvst 1,00LFL

00000020210

Version 1.0

Revision Date 09/29/2016

Print Date 12/20/2016

Physical state	: liquid
Color	: colourless
Odor	: sweet pungent
pH	: Note: no data available
Melting point/range	: -95 °C
Boiling point/boiling range	: 110.6 °C
Flash point	: 39 °F (4 °C) Method: closed cup
Lower explosion limit	: 1.1 %(V)
Upper explosion limit	: 7.1 %(V)
Vapor pressure	: 38 hPa at 25 °C(77 °F)
Vapor density	: 3.1 Note: (Air = 1.0)
Density	: 0.867 g/cm3 at 20 °C
Water solubility	: 0.74 g/l at 20 °C
Solubility in other solvents	: Note: Soluble in most organic solvents
Ignition temperature	: 480 °C
Molecular weight	: 92.14 g/mol

SAFETY DATA SHEET		Honeywell Riedel-de Haën™
R34494 Toluene pesticide uvst	1,00LFL	
00000020210		
Version 1.0	Revision Date 09/29/2016	Print Date 12/20/2016
SECTION 10. STABILITY AND RE	EACTIVITY	
Chemical stability	: Stable under recommended storage of	conditions.
Possibility of hazardous reactions	: Hazardous polymerisation does not o	occur.
Conditions to avoid	: Heat, flames and sparks. Keep away from direct sunlight.	
Incompatible materials to avoid	: Strong oxidizing agents Strong acids and strong bases May attack many plastics, rubbers an	d coatings.
Hazardous decomposition products	 In case of fire hazardous decompositi produced such as: Carbon monoxide Carbon dioxide (CO2) 	ion products may be
SECTION 11. TOXICOLOGICAL I	NFORMATION	
Acute oral toxicity	: LD50: > 5,000 mg/kg Species: Rat Method: EC Directive 92/69/EEC B.1	Acute Toxicity (Oral)
Acute inhalation toxicity	: LC50: > 20 mg/l Exposure time: 4 h Species: Rat Method: OECD Test Guideline 403	
Acute dermal toxicity	: LD50: > 5,000 mg/kg Species: Rabbit	
Skin irritation	: Species: Rabbit Result: Irritating to skin.	
Eye irritation	: Species: Rabbit Result: slight irritation	
	Page 9 / 14	



R34494 Toluene pesticide uvst 1,00LFL

0000020210		
ersion 1.0	Revision Date 09/29/2016	Print Date 12/20/2016
	Method: OECD Test Guideline 405	
Sensitisation	: Species: Guinea pig Result: non-sensitizing Method: EEC 92/69, B.6	
Repeated dose toxicity	: Species: Rat Application Route: Inhalation Exposure time: 15 Weeks Note: Chronic toxicity 2500 ppm Based of results, may cause adverse health effect Heart Liver Kidney Urinary tract Bladder	
Genotoxicity in vitro	: Test Method: Ames test Result: negative	
	: Test Method: Chromosome aberration to Cell type: Chinese Hamster Ovary Cells Result: negative	est in vitro
Aspiration toxicity	: May be fatal if swallowed and enters airw	ays.
		ays.
CTION 12. ECOLOGICAL INFO		
CTION 12. ECOLOGICAL INFO	DRMATION : flow-through test LC50: 5.5 mg/l Exposure time: 96 h	almon)
CTION 12. ECOLOGICAL INFO Ecotoxicity effects Toxicity to fish Toxicity to daphnia and other	 CRMATION flow-through test LC50: 5.5 mg/l Exposure time: 96 h Species: Oncorhynchus kisutch (coho sa LC50: 3.78 mg/l Exposure time: 48 h 	almon)



R34494 Toluene pesticide uvst 1,00LFL

00000020210

Version 1.0		Revision Date 09/2	0/2016	B 1 2 B
			9/2010	Print Date 12/20/2016
Toxicity to	bacteria :	EC50: 19.7 mg/l Exposure time: 0.5 h Species: Photobacte		
Eliminatio	on information (persist	ence and degradabi	ility)	
Biodegrada	ability :	Result: Readily biode Value: 81 %	egradable	
Further in	formation on ecology			
Additional information		Bioaccumulation is u Harmful to aquatic of		
SECTION 13. I	DISPOSAL CONSIDER	TIONS		
Disposal n	nethods :	Observe all Federal, regulations.	State, and Local E	nvironmental
SECTION 14. 1	RANSPORT INFORM	TION		
DOT	UN/ID No. Proper shipping name Class Packing group Hazard Labels	: UN 1294 : TOLUENE 3 II 3	E	
ΙΑΤΑ	UN/ID No. Description of the goo Class Packaging group Hazard Labels Packing instruction (c. aircraft) Packing instruction (passenger aircraft) Packing instruction (passenger aircraft)	: 3 : II : 3	≣	
IMDG	UN/ID No. Description of the goo Class Packaging group	: UN 1294 ds : TOLUENE : 3 : II	Ξ	
		Page 11 / 14		



R34494 Toluene pesticide uvst 1,00LFL

00000020210

000000020210				
Version 1.0	Revision Date	e 09/29/2016	Print Date 12/20/201	
Hazard Labels EmS Number Marine pollutant	: 3 : F-E, S-D : no			
ECTION 15. REGULATORY INF	RMATION			
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 Act	: On the inventory, or in compliance with the inventory			
China. Inventory of Existing Chemical Substances	: On the inventory, or in compliance with the inventory			
New Zealand. Inventory of Chemicals (NZloC), as published by ERMA New Zealand	: On the inventory, or in compliance with the inventory			
National regulatory informa	on			
SARA 302 Components	: 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: Toluene 108-88-3 			

Page 12 / 14



R34494 Toluene pesticide uvst 1,00LFL

00000020210

00000020210						
Version 1.0	Revi	ision Date 09/29/201	6 Print Date 12/20/2016			
SARA 311/312 Hazards	Acute H	Fire Hazard Acute Health Hazard Chronic Health Hazard				
CERCLA Reportable Quantity	: 1000 lb	1000 lbs				
California Prop. 65		ontains a chemical known to the				
		f California to cause				
	Benze	ene	71-43-2			
	State o harm. Toluer	 WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm. Toluene 108-88-3 Benzene 71-43-2 				
Massachusetts RTK	: Toluene : Benzer		108-88-3 71-43-2			
New Jersey RTK	: Toluene	e	108-88-3			
Pennsylvania RTK	: Toluene : Benzer		108-88-3 71-43-2			
SECTION 16. OTHER INFORM	ATION					
	HMIS I	II NFPA				
Health hazard	: 2*	2				
Flammability	: 3 : 0	3				
Physical Hazard Instability	: 0	0				
 * - Chronic health hazard Hazard rating and rating sy use of individuals trained in 			nis information is intended solely for the			
		Page 13 / 14				



R34494 Toluene pesticide uvst 1,00LFL

00000020210

Version 1.0

Revision Date 09/29/2016

Print Date 12/20/2016

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.

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group