

### Ethyl acetate 494518-1L Version 1.5 Issuing date Revision Date 11/27/2017 Print Date 08/07/2019 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING **Product information** Trade name Ethyl acetate : Number 00000020226 Recommended use of the Laboratory chemicals : chemical and restrictions on use Manufacturer or supplier's Honeywell Specialty Chemicals Seelze : details GmbH Wunstorfer Straße 40 Seelze, 30926 For further information. 1-800-368-0050 : please contact: +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 In Japan: +(81)-345209637 (24 hours/day, 7 days/week) 2. HAZARDS IDENTIFICATION Classification of the substance or mixture Classification of the : Flammable liquids, Category 2 Eye irritation, Category 2A substance or mixture Specific target organ toxicity - single exposure, Category 3 GHS Label elements, including precautionary statements Symbol(s) Signal word : Danger Hazard statements : Highly flammable liquid and vapour. Causes serious eye irritation. May cause drowsiness and dizziness.

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Precautionary	statements :	<ul> <li>Prevention:</li> <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>Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.</li> <li>Wash skin thoroughly after handling.</li> <li>Use only outdoors or in a well-ventilated area.</li> <li>Wear protective gloves/ protective clothing/ eye protection/ face protection.</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 IN EYES: Rinse cautiously with water for several minutes.</li> <li>Remove contact lenses, if present and easy to do. Continue</li> </ul>				
		rinsing. Call a POISON CEN If eye irritation persis In case of fire: Use d foam for extinction.	sts: Get medical a			
		Storage:	ated place. Keep	container tightly closed.		
		<b>Disposal:</b> Dispose of contents/ container to an approved waste disposal plant.				
3. COMPOSITION/	INFORMATION ON					
Formula	:	C4H8O2				
Chemical natu	re :	Substance				
Chemical name	e		CAS-No.	Concentration		
Ethyl acetate Ethyl acetate			141-78-6	100.00 %		
4. FIRST AID MEA	SURES					
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labolotica		Demous to fresh sin
Inhalation	:	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. 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.
Ingestion	:	Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person. If victim is fully conscious, give a cupful of water. Call a physician.
Notes to physician	:	Treat symptomatically.
FIREFIGHTING MEASU	RES	
Suitable extinguishing	media :	Alcohol-resistant foam Dry chemical Carbon dioxide (CO2) Cool closed containers exposed to fire with water spray.
Specific hazards durin firefighting	g :	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 equ for firefighters		Wear self-contained breathing apparatus and protective suit.
Further information	:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
ACCIDENTAL RELEAS	E MEASUF	RES
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Personal pred	cautions,	:	Wear personal protective equipment.		
protective equipment and emergency procedures		-	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.		
Environmenta	al precautions	:	Prevent further leakage or spillage if safe Prevent product from entering drains. Discharge into the environment must be Do not flush into surface water or sanitar Do not allow run-off from fire fighting to e courses.	avoided. y sewer system.	
Methods and containment a	materials for and cleaning up	:	Ventilate the area. No sparking tools should be used. Use explosion-proof equipment. Contain spillage, soak up with non-comb material, (e.g. sand, earth, diatomaceous and transfer to a container for disposal a national regulations (see section 13).	s earth, vermiculite)	
ANDLING AN	ID STORAGE				
IANDLING AN Handling	ID STORAGE				
Handling	ID STORAGE	:	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 clothin	g.	
<b>Handling</b> Precautions f	or safe handling		Use only in well-ventilated areas. Keep container tightly closed. Do not smoke. Do not swallow. Avoid breathing vapours, mist or gas.	surfaces. atic discharges. nded before beginning	
Handling Precautions f	or safe handling		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 clothin Keep away from fire, sparks and heated Take precautionary measures against sta Ensure all equipment is electrically groun transfer operations. Use explosion-proof equipment. Keep product and empty container away ignition. No sparking tools should be used.	surfaces. atic discharges. nded before beginning	



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incompatibilities		Keep containers tightly closed in a dry, overtilated place. Containers which are opened must be containers which are opened must be container by the prevent leakage. Keep away from heat and sources of ign Keep away from direct sunlight. Store away from incompatible substance Container hazardous when empty. Do not pressurize, cut, weld, braze, solo expose containers to heat or sources of	arefully resealed and nition. es. der, drill, grind or

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Components	CAS- No.	Value	Control parameters	Update	Basis
Ethyl acetate Ethyl acetate	141-78-6	TL : Threshold limits	(200 ppm)	08 2006	ISHL:Industrial Safety and Health Law OEL

TWA : Time	720 mg/m3	04 2007	Japan Society
weighted	(200 ppm)		for Occupational
average			Health:Japan
			Society for
			Occupational
			Health
			allowable
			concentration
			recommendatio
			n value

### Appropriate engineering controls

Use with local exhaust ventilation.

Prevent vapour buildup by providing adequate ventilation during and after use.

### Individual protection measures, such as personal protective equipment

Respiratory protection	<ul> <li>In case of insufficient ventilation, wear suitable respiratory equipment.</li> <li>For rescue and maintenance work in storage tanks use self- contained breathing apparatus.</li> <li>Use NIOSH approved respiratory protection.</li> </ul>
Hand protection	: Solvent-resistant gloves Gloves must be inspected prior to use. 5/12



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		Replace when worn.		
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	
Skin and body pro	tection :	Wear as appropriate: Solvent-resistant apron Flame retardant antistatic protective clo If splashes are likely to occur, wear: Protective suit	thing.	
Hygiene measure	s :	When using do not eat, drink or smoke. Wash hands before breaks and immedi product. Keep working clothes separately. Remove and wash contaminated clothin Do not swallow. Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clothi	ately after handling the ng before re-use.	
Protective measur	es :	Ensure that eyewash stations and safet the workstation location. Legal requirements are to be considere selection, use and care of personal pro	d in regard of the	
PHYSICAL AND CH	IEMICAL PROP	PERTIES		
Physical state	:	liquid		
Colour	:	colourless		
Odour	:	like fruit		
рН	:	Note: no data available		
Melting point/range	e :	: -84 °C		
Boiling point/boiling	g range :	: 77 °C at 1,013 hPa		
Flash point :		25 °F (-4 °C) Method: closed cup		
Evaporation rate	:	ca. 5		
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Lower explosion limit	:	2.1 %(V)	
Upper explosion limit	:	11.5 %(V)	
Vapour pressure	:	97 hPa	
	-	at 20 °C(68 °F)	
Vapour donaity		ca. 3	
Vapour density	•	Note: $(Air = 1.0)$	
Density	:	0.901 g/cm3	
Water solubility	:	ca. 90 g/l	
,		2	
Solubility in other solve	ents ·	Note: Soluble in most organic solvents	
Ignition tomporature		426 °C	
Ignition temperature	•		
Viscosity, kinematic	:	Note: not determined	
Molecular weight	:	88.11 g/mol	
0. STABILITY AND REA	CTIVITY		
Chemical stability	:	Stable under normal conditions.	
Possibility of hazardou reactions	IS :	Hazardous polymerization does not occur.	
Conditions to avoid	:	Heat, flames and sparks.	
		Keep away from direct sunlight.	
Incompatible materials avoid	s to :	Strong oxidizing agents Acids	
		Bases	
		Oxidizing solids Oxidizing liquids	
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Hazardous decomp products	osition :	In case of fire hazardous decomposition produced such as: Carbon monoxide Carbon dioxide (CO2)	ו products may be
1. TOXICOLOGICAL	INFORMATIO	N	
Acute oral toxicity	:	LD50:  4,934 mg/kg Species: Rabbit Method: OECD Test Guideline 401	
	:	LD50: 10,200 mg/kg Species: Rat, female	
Acute inhalation to	xicity :	LC0: > 22.5 mg/l > 6000 ppm Exposure time: 6 h Species: Rat Note: No deaths	
Acute dermal toxic	ity :	LD50: > 18,000 mg/kg Species: Rabbit	
Skin irritation	:	Species: Rabbit Result: slight irritation Method: OECD Test Guideline 404	
Eye irritation	:	Species: Rabbit Result: slight irritation Method: OECD Test Guideline 405	
2. ECOLOGICAL INF	ORMATION		
Toxicity			
Toxicity to fish	:	LC50: 230 mg/l Exposure time: 96 h Species: Salmo gairdneri	
Toxicity to algae	:	EC50: 3,300 mg/l	
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	:	Exposure time: 48 h Species: scenedesmus subspicatus Growth inhibition NOEC: > 100 mg/l Exposure time: 72 h Species: Algae	
Persistence and	d degradability		
Bioaccumulati	ve potential		
Bioaccumulatio	n :	Note: Bioaccumulation is unlikely.	
Biochemical Ox		Value: 293 mg/g	
Demand (BOD) Chemical Oxyg (COD)		Value: 1,816 mg/g	
13. DISPOSAL CON	SIDERATIONS		
WDPCL Waste Public Cleansin		Specially Controlled Industrial Waste	
Disposal metho	ds :	In accordance with local and national re	gulations.
14. TRANSPORT IN	IFORMATION		
ADR UN/ID No. Description of tl Class Packing group Classification C Hazard Identific Labels	he goods :	UN 1173 ETHYL ACETATE 3 II F1 33 3	
IATA UN/ID No. Description of tl Class Packing group Labels	he goods :	UN 1173 Ethyl acetate 3 II 3 9/12	



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:) ;) ;) ;) ;) ;)	1	
goods : ET⊦ : 3 : II : 3 : 7-E	IYL ACETATE	
: no		
: Flamr storaç : Flamr	ge of dangerous goods and its Atta mable liquid (Article 194 of The En	ached Table 1)
ct to be :		
Тур Haz Wat	e 1 petroleums ardous rank II er insoluble	
ol Law 30.3 Liste	ed	ceutical use
	i (cargo : 364 i : 353 i) : Y34 goods : Y34 i) : S : UN : UN : ST : 3 : II : 3 : F-E : S-D : no : no : RomATION ry information : Flami storag : Flami Aviati : Flami : Storag : Storag : Gro Thres : Gro : Gro : Storag : Gro : Storag : Gro : Storag : Gro : Storag : Storag	<ul> <li>(cargo : 364</li> <li>: 353</li> <li>: Y341</li> <li>: UN 1173</li> <li>goods : ETHYL ACETATE</li> <li>: 3</li> <li>: II</li> <li>: 3</li> <li>: F-E</li> <li>: S-D</li> <li>: no</li> </ul> <b>CORMATION ry information</b> <ul> <li>: Flammable liquids (Article 2 and 3 of rustorage of dangerous goods and its Attached Table 1)</li> <li>: Flammable liquid (Article 194 of The Er Aviation Law and its Attached Table 1)</li> <li>: to be : Threshold Concentration: 1 % wt 177</li> <li>: to be : Article 18 Threshold limits: 1 % wt 9.9</li> <li>: Group 4 Flammable liquids Type 1 petroleums Hazardous rank II Water insoluble Keep away from fire</li> </ul>



Ethyl acetate	;						
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Version 1.5	Issuing date	е	F	Revision Date	11/27/2017	Print Date 08/07/2019	
	ional regulation	S					
<b>Notification status</b> US. Toxic Substances Control Act		:	: On TSCA Inventory				
(Notification a	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	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 with the inventory				
New Zealand. Chemicals (N published by E Zealand	ZloC), as	:	: On the inventory, or in compliance with the inventory				
6. OTHER INFOR	MATION						
		ł	HMIS III	NFPA			
Health hazard		: 2	2*	1			
Flammability Physical Haza Instability	ırd	: 3 : ( :		3 0			
					): This informa	tion is intended solely for the	
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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.

Previous Issue Date: 11/03/2017

Prepared by Honeywell Performance Materials and Technologies Product Stewardship Group