

Ethyl acetate

494518-2L

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 chemical and restrictions on

use

Laboratory chemicals

Manufacturer or supplier's

details

Honeywell Specialty Chemicals Seelze

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 substance or mixture : Eye irritation, Category 2A

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 : **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. 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 eye 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

plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C4H8O2

Chemical nature : Substance

Chemical nameCAS-No.ConcentrationEthyl acetate141-78-6100.00 %

Ethyl acetate

4. FIRST AID MEASURES



Burdick & Jackson™

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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.

5. FIREFIGHTING MEASURES

Suitable extinguishing media : Alcohol-resistant foam

Dry chemical

Carbon dioxide (CO2)

Cool closed containers exposed to fire with water spray.

Specific hazards during

firefighting

: 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.

Further information : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

6. ACCIDENTAL RELEASE MEASURES



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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. 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 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-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).

7. HANDLING AND STORAGE

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 gas. Avoid contact with skin, eyes and clothing.

Advice on protection against

fire and explosion

Keep away from fire, sparks and heated surfaces.

Take precautionary measures against static discharges.

Ensure all equipment is electrically grounded before beginning

transfer operations.

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

Conditions for safe storage,

including any

Store in area designed for storage of flammable liquids.

Protect from physical damage.



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incompatibilities 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.

Do not pressurize, cut, weld, braze, solder, drill, grind or

expose containers to heat or sources of ignition.

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

	TWA : Time weighted average	720 mg/m3 (200 ppm)	04 2007	Japan Society for Occupational 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 : In case of insufficient ventilation, wear suitable respiratory

equipment.

For rescue and maintenance work in storage tanks use self-

contained breathing apparatus.

Use NIOSH approved respiratory protection.

Hand protection : Solvent-resistant gloves

Gloves must be inspected prior to use.



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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 protection to eyes

Skin and body protection : Wear as appropriate:

Solvent-resistant apron

Flame retardant antistatic protective clothing.

If splashes are likely to occur, wear:

Protective suit

Hygiene measures : When using do not eat, drink or smoke.

Wash hands before breaks and immediately after handling the

product.

Keep working clothes separately.

Remove and wash contaminated clothing before re-use.

Do not swallow.

Avoid breathing vapours, mist or gas. Avoid contact with skin, eyes and clothing.

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state : liquid

Colour : colourless

Odour : like fruit

pH : Note: no data available

Melting point/range : -84 °C

Boiling point/boiling 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 density : ca. 3

Note: (Air = 1.0)

Density : 0.901 g/cm3

Water solubility : ca. 90 g/l

Solubility in other solvents : Note: Soluble in most organic solvents

Ignition temperature : 426 °C

Viscosity, kinematic : Note: not determined

Molecular weight : 88.11 g/mol

10. STABILITY AND REACTIVITY

Chemical stability : Stable under normal conditions.

Possibility of hazardous

Conditions to avoid

reactions

: Hazardous polymerization does not occur.

: Heat, flames and sparks.

Keep away from direct sunlight.

Incompatible materials to

avoid

: Strong oxidizing agents

Acids

Bases

Oxidizing solids Oxidizing liquids



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Hazardous decomposition

products

: In case of fire hazardous decomposition products may be

produced such as: Carbon monoxide Carbon dioxide (CO2)

11. TOXICOLOGICAL INFORMATION

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 toxicity : LC0: > 22.5 mg/l > 6000 ppm

Exposure time: 6 h Species: Rat Note: No deaths

Acute dermal toxicity : 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

12. ECOLOGICAL INFORMATION

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 degradability

Bioaccumulative potential

Bioaccumulation : Note: Bioaccumulation is unlikely.

Biochemical Oxygen : Value: 293 mg/g

Demand (BOD)

Chemical Oxygen Demand : Value: 1,816 mg/g

(COD)

13. DISPOSAL CONSIDERATIONS

Public Cleansing Law

WDPCL Waste Disposal and : Specially Controlled Industrial Waste

Disposal methods : In accordance with local and national regulations.

14. TRANSPORT INFORMATION

ADR

UN/ID No. : UN 1173

Description of the goods : ETHYL ACETATE

Class : 3 Packing group
Classification Code : 11 : F1 Hazard Identification Number : 33 Labels : 3

IATA

UN/ID No. : UN 1173 Description of the goods : Ethyl acetate

Class : 3 : 11 Packing group : 3 Labels



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Packing instruction (cargo

aircraft)

Packing instruction : 353

(passenger aircraft)

Packing instruction : Y341

(passenger aircraft)

IMDG

UN/ID No. : UN 1173

Description of the goods : ETHYL ACETATE

: 364

Class 3 : 11 Packing group : 3 Labels EmS Number 1 : F-E EmS Number 2 : S-D

Marine pollutant : no

15. REGULATORY INFORMATION

National regulatory information

: Flammable liquids (Article 2 and 3 of rules on shipping and Vessel Safety Law

JP VSL storage of dangerous goods and its Attached Table 1)

: Flammable liquid (Article 194 of The Enforcement Rules of Aviation Law

JP AVL Aviation Law and its Attached Table 1)

Substances Subject to be

Notified Names JP MSDSD

Threshold Concentration: 1 % wt 177

Substances Subject to be

Indicated Names

JPISHL LR

: Article 18

Threshold limits: 1 % wt 9.9

Fire Service Law : Group 4 Flammable liquids

Type 1 petroleums Hazardous rank II Water insoluble Keep away from fire

Poisonous and Deleterious

Substances Control Law

: Deleterious substance not for pharmaceutical use

30.3 Listed

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Other international regulations

Notification status

US. Toxic Substances

Control Act

: On TSCA Inventory

(Notification and Assessment) Act

Australia. Industrial Chemical : 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 with the inventory

New Zealand. Inventory of Chemicals (NZIoC), as published by ERMA New

Zealand

: On the inventory, or in compliance with the inventory

16. OTHER INFORMATION

	HMIS III	NFPA
Health hazard	: 2*	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.



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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