

## ETHYL ACETATE

Revision Date 04/08/2015

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

- Trade name ETHYL ACETATE

**1.2 Relevant identified uses of the substance or mixture and uses advised against****Uses of the Substance / Mixture**

- Solvent
- Intermediate for synthesis

**1.3 Details of the supplier of the safety data sheet****Company**

Solvay USA Inc.,  
COATIS  
8 Cedar Brook Drive  
Cranbury, NJ, 08512-7500, US  
Telephone number: 855-454-9921

**1.4 Emergency telephone**

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT CONTACT: CHEMTREC 800-424-9300 within the United States and Canada, or 703-527-3887 for international collect calls.

**SECTION 2: Hazards identification**

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

**2.1 Classification of the substance or mixture****HCS 2012 (29 CFR 1910.1200)**

Flammable liquids, Category 2  
Eye irritation, Category 2B  
Specific target organ systemic toxicity - single exposure  
Category 3

H225: Highly flammable liquid and vapor.  
H320: Causes eye irritation.  
H336: May cause drowsiness or dizziness. (Central nervous system)

**2.2 Label elements****HCS 2012 (29 CFR 1910.1200)****Pictogram****Signal Word**

- Danger

**Hazard Statements**

- H225 Highly flammable liquid and vapor.
- H320 Causes eye irritation.
- H336 May cause drowsiness or dizziness.

**Precautionary Statements**Prevention

- P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
- P233 Keep container tightly closed.
- P240 Ground/bond container and receiving equipment.
- P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- P261 Avoid breathing mist or vapors.
- P264 Wash skin thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves/ eye protection/ face protection.

Response

- P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
- P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
- P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 If eye irritation persists: Get medical advice/ attention.
- P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage

- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
- P403 + P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.

Disposal

- P501 Dispose of contents/ container to an approved waste disposal plant.

**2.3 Other hazards which do not result in classification**

- H402: Harmful to aquatic life.

**SECTION 3: Composition/information on ingredients****3.1 Substance****Hazardous Ingredients and Impurities**

Chemical Name	Identification number CAS-No.	Concentration [%]
Ethyl acetate	141-78-6	>= 99
Ethanol	64-17-5	< 1

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

**3.2 Mixture**

Not applicable, this product is a substance.

**SECTION 4: First aid measures****4.1 Description of first-aid measures****General advice**

- Show this material safety data sheet to the doctor in attendance.
- First responder needs to protect himself.
- Place affected apparel in a sealed bag for subsequent decontamination.

**In case of inhalation**

- Move to fresh air in case of accidental inhalation of vapors or decomposition products.
- Keep at rest.
- Consult a physician if necessary.

**In case of skin contact**

- In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.
- Consult a physician if necessary.

**In case of eye contact**

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- If eye irritation persists, consult a physician.

**In case of ingestion**

- Do NOT induce vomiting.
- Rinse mouth with water.
- Consult a physician if necessary.

**4.2 Most important symptoms and effects, both acute and delayed****Effects**

- Skin contact may aggravate existing skin disease
- Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis

**4.3 Indication of any immediate medical attention and special treatment needed****Notes to physician**

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
- Treat symptomatically.
- There is no specific antidote available.

**SECTION 5: Firefighting measures****Flash point**

25 °F (-4 °C)  
closed cup

**Autoignition temperature**

801 °F (427 °C)

**Flammability / Explosive limit**

Lower flammability/explosion limit : 2.20 %(V)  
Upper flammability/explosion limit : 11.40 %(V)

**5.1 Extinguishing media****Suitable extinguishing media**

- Foam
- Dry powder
- Carbon dioxide (CO2)

**Unsuitable extinguishing media**

- High volume water jet

**5.2 Special hazards arising from the substance or mixture**

- Flammable Liquid
- Heating increases the inner pressure of the bottle, risk of explosion.
- Vapor / air mixtures are explosive.
- Vapors may spread long distances and ignite.

**5.3 Advice for firefighters****Special protective equipment for fire-fighters**

- Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.

**Specific fire fighting methods**

- Use appropriate means for fighting adjacent fires.

**Further information**

- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Cool containers/tanks with water spray.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

- Mark the contaminated area with signs and prevent access to unauthorized personnel.
- Evacuate personnel to safe areas.
- Avoid contact with the skin and the eyes.
- Do not breathe vapor.
- Remove all sources of ignition.
- Keep away from flames and sparks.
- Use personal protective equipment.
- Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid.

**6.2 Environmental precautions**

- Prevent product from entering sewage system.
- Try to prevent the material from entering drains or water courses.
- Local authorities should be advised if significant spillages cannot be contained.
- Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies

**6.3 Methods and materials for containment and cleaning up*****Recovery***

- Flammable product. Take all necessary precautions. Ground/bond the containers and the equipment.
- Pump up the product into a suitably labeled spare container.
- Recover as much of the product as possible.
- Soak up with inert absorbent material.
- Sweep up and shovel into suitable containers for disposal.
- Non-sparking tools should be used.
- Keep in suitable, closed containers for disposal.

***Decontamination / cleaning***

- Wash off with plenty of water.
- Recover the cleaning water for subsequent disposal.

- Pick up contaminated soil.

**Disposal**

- Treat recovered material as described in the section "Disposal considerations".

**Additional advice**

- Stop the leak. Turn leaking containers leak-side up to prevent the escape of liquid.
- Remove all incompatible materials as quickly as possible

**6.4 Reference to other sections**

- 13. DISPOSAL CONSIDERATIONS

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

- Ground the equipment.
- Ground/bond container and receiving equipment.
- No smoking.
- Take measures to prevent the build up of electrostatic charge.
- Provide adequate ventilation.
- Provide sufficient air exchange and/or exhaust in work rooms.
- Electrical installations / working materials must comply with the technological safety standards.
- No sparking tools should be used.
  
- Provide adequate ventilation.
- Handle in accordance with good industrial hygiene and safety practice.
- Wear personal protective equipment.
- Avoid inhalation, ingestion and contact with skin and eyes.

**Hygiene measures**

- Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
  - 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
  - 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
  - 3) Wash exposed skin promptly to remove accidental splashes or contact with material.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Use clean, well maintained personal protection equipment.

**7.2 Conditions for safe storage, including any incompatibilities**

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**Technical measures/Storage conditions**

- The floor of the depot should be impermeable and designed to form a watertight basin.
- Electrical installations / working materials must comply with the technological safety standards.
- Keep away from open flames, hot surfaces and sources of ignition.
- Store in original container.
- Keep away from heat.
- Keep in a dry, cool and well-ventilated place.
- Keep under inert gas.
- Keep under nitrogen.
- Keep away from incompatible materials to be indicated by the manufacturer

**Packaging material****Suitable material**

- Stainless steel
- Carbon steel

**Unsuitable material**

- Plastic materials.

**7.3 Specific end use(s)**

- no data available

**SECTION 8: Exposure controls/personal protection**

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

**8.1 Control parameters****Components with workplace occupational exposure limits**

Ingredients	Value type	Value	Basis
Ethyl acetate	TWA	400 ppm 1,400 mg/m3	National Institute for Occupational Safety and Health
Ethyl acetate	TWA	400 ppm	American Conference of Governmental Industrial Hygienists
Ethyl acetate	TWA	400 ppm 1,400 mg/m3	Occupational Safety and Health Administration - Table Z-1 Limits for Air Contaminants
The value in mg/m3 is approximate.			

**NIOSH IDLH (Immediately Dangerous to Life or Health Concentrations)**

Ingredients	CAS-No.	Concentration
Ethyl acetate	141-78-6	2000 ppm
Ethanol	64-17-5	3300 ppm

**8.2 Exposure controls****Control measures****Engineering measures**

- Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures :
- Provide adequate ventilation.
- Use only in an area equipped with explosion proof exhaust ventilation.

**Individual protection measures****Respiratory protection**

- When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.
- Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the conditions specified by the appropriate local standard(s):
- Respirator with a vapor filter
- Full face-mask
- Wear self-contained breathing apparatus in confined spaces, in cases where the oxygen level is depleted, or in case of significant emissions.

**Hand protection**

- Where there is a risk of contact with hands, use appropriate gloves
- Gloves must be inspected prior to use.
- Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

**Eye protection**

- Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this material.
- Eye contact should be prevented through the use of:
- Safety glasses with side-shields

**Skin and body protection**

- Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Remove and wash contaminated apparel.

**Hygiene measures**

- Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes or contact with material.
- Ensure that eyewash stations and safety showers are close to the workstation location.
- Use clean, well maintained personal protection equipment.

**Protective measures**

- The protective equipment must be selected in accordance with current local standards and in cooperation with the supplier of the protective equipment.
- Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.

**SECTION 9: Physical and chemical properties**

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.

**9.1 Information on basic physical and chemical properties**

<b><u>Appearance</u></b>	<u>Form:</u> transparent <u>Physical state:</u> liquid <u>Color:</u> colorless
<b><u>Odor</u></b>	fruity
<b><u>Odor Threshold</u></b>	no data available
<b><u>pH</u></b>	No information available.
<b><u>Melting point/range</u></b>	-119.47 °F (-84.15 °C) ( 760.00 mmHg (1,013.25 hPa))
<b><u>Boiling point/boiling range</u></b>	ca. 158 - 172 °F (70 - 78 °C) ( 759.81 mmHg (1,013 hPa))  Not applicable
<b><u>Flash point</u></b>	25 °F (-4 °C) ( 759.81 mmHg (1,013 hPa)) closed cup
<b><u>Evaporation rate (Butylacetate = 1)</u></b>	4.5
<b><u>Flammability (solid, gas)</u></b>	no data available
<b><u>Flammability (liquids)</u></b>	no data available
<b><u>Flammability / Explosive limit</u></b>	<u>Lower flammability/explosion limit:</u> 2.20 %(V) <u>Upper flammability/explosion limit:</u> 11.40 %(V)
<b><u>Autoignition temperature</u></b>	801 °F (427 °C) ( 759.81 mmHg (1,013 hPa))
<b><u>Vapor pressure</u></b>	73.73 mmHg (98.30 hPa) ( 77 °F (25 °C))
<b><u>Vapor density</u></b>	3.04
<b><u>Density</u></b>	0.8968 kg/dm <sup>3</sup> ( 68 °F (20 °C))



**Solubility**

Water solubility :  
80 g/l ( 68 °F (20 °C))  
miscible

Solubility in other solvents:  
Hydrocarbons : miscible

Ketones : miscible

Esters : miscible

**Partition coefficient: n-octanol/water**

log Pow: 0.68 ( 77 °F (25 °C))

**Thermal decomposition**

no data available

**Viscosity**

Viscosity, dynamic : 0.45 mPa.s ( 68 °F (20 °C))

**Explosive properties**

Not explosive  
Structure-activity relationship (SAR)

**Oxidizing properties**

Nonoxidizing material according to EC criteria, Structure-activity relationship (SAR)

**9.2 Other information****Henry's Constant**

13.57755 Pa.m<sup>3</sup> / mol ( 77 °F (25 °C))

**Molecular weight**

88.11 g/mol

**SECTION 10: Stability and reactivity****10.1 Reactivity**

- Not classified as a reactivity hazard.

**10.2 Chemical stability**

- Stable at room temperature.
- Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

- Hazardous polymerization does not occur.

**10.4 Conditions to avoid**

- Prevent the build-up of electrostatic charge.
- Heat, flames and sparks.
- Exposure to moisture.

**10.5 Incompatible materials**

- Oxygen
- Oxidizing agents

**10.6 Hazardous decomposition products**

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- On combustion or on thermal decomposition (pyrolysis), releases:
- (Carbon oxides (CO + CO<sub>2</sub>)).

**SECTION 11: Toxicological information****11.1 Information on toxicological effects****Acute toxicity****Acute oral toxicity**

LD50 : 4,934 mg/kg - Rabbit , for males and females  
Method: OECD Test Guideline 401  
Not classified as harmful if swallowed  
Published data

**Acute inhalation toxicity**

LC50 ( vapor ) > 29.2 mg/l - Rat  
Not classified as harmful by inhalation  
Published data

**Acute dermal toxicity**

LD50 Dermal > 20,000 mg/kg - Rabbit  
Not classified as harmful by contact with skin  
Published data

**Acute toxicity (other routes of administration)**

no data available

**Skin corrosion/irritation**

Rabbit  
No skin irritation  
Method: OECD Test Guideline 404  
Unpublished reports

**Serious eye damage/eye irritation**

Rabbit  
Mild eye irritation  
Method: OECD Test Guideline 405  
Unpublished reports

**Respiratory or skin sensitization**

Magnusson and Kligman method - Guinea pig  
Does not cause skin sensitization.  
Method: OECD Test Guideline 406  
Unpublished reports

**Mutagenicity****Genotoxicity in vitro**

Ames test  
with and without metabolic activation  
negative  
Method: OECD Test Guideline 471  
Product is not considered to be genotoxic  
Published data

CHO / HPRT test  
Strain: CHO  
with and without metabolic activation  
negative  
Product is not considered to be genotoxic  
Published data

Chromosome aberration test in vitro  
with and without metabolic activation  
negative  
Method: Mutagenicity (in vitro mammalian cytogenetic test)  
Product is not considered to be genotoxic  
Published data

**Genotoxicity in vivo**

Mutagenicity (micronucleus test) - Hamster  
for males and females  
Method: Mutagenicity (micronucleus test)  
negative  
Product is not considered to be genotoxic  
Published data

**Carcinogenicity**

Ethanol

Rat  
Oral  
Exposure time: two-year  
Oral toxicity tests on rats and mice did not reveal any carcinogenic potential.  
Chronic exposure  
Published data

Mouse  
Oral  
Exposure time: two-year  
Oral toxicity tests on rats and mice did not reveal any carcinogenic potential.  
Chronic exposure  
Published data

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

NTP  
IARC  
OSHA  
ACGIH

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**Toxicity for reproduction and development****Toxicity to reproduction / fertility**

Fertility study 2 generations - Mouse  
 Oral exposure  
 NOAEL parent: 20,700 mg/kg  
 NOAEL F1: 13,800 mg/kg  
 Method: OECD Test Guideline 416  
 By analogy  
 Published data

**Developmental Toxicity/Teratogenicity**

Ethyl acetate

The product itself has not been tested.

Application Route: Inhalation

Application Route: Oral  
 Method: Expert judgment  
 Information given is based on data obtained from a metabolite.  
 Ethanol

The product is not considered to be teratogenic.  
 Published data

Ethanol

Rat  
 Application Route: Oral  
 LOAEL teratogenicity: 8,200 mg/kg  
 The product is not considered to be embryotoxic / fetotoxic.  
 Published data

Rat  
 Application Route: Oral  
 NOAEL teratogenicity: 5,200 mg/kg

The product is not considered to be embryotoxic / fetotoxic.  
 Published data

Rat  
 Application Route: Inhalation  
 NOAEL teratogenicity: 38,000 mg/kg  
 NOAEL maternal: 30,400 mg/kg

Method: OECD Test Guideline 414  
 The product is not considered to be embryotoxic / fetotoxic.  
 Effects on the progeny are not considered significant as they were observed only in doses leading to maternal toxicity  
 Published data

**STOT****STOT-single exposure**

The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects., May cause drowsiness or dizziness.

**STOT-repeated exposure**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

Oral 90 d - Rat , for males and females  
 NOAEL: 900 mg/kg  
 Unpublished reports

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Inhalation 90 d - Rat , for males and females  
1.28 mg/l  
Unpublished reports

**Experience with human exposure****Experience with human exposure : Inhalation**

Ethyl acetate

Target Organs: Eyes

Target Organs: Respiratory Tract

At high concentrations:

Vapor during processing may be irritating to the respiratory tract and to the eyes.

Published data

**CMR effects****Mutagenicity**

Ethyl acetate

In vivo tests did not show mutagenic effects

**Reproductive toxicity**

Ethanol

Animal testing did not show any effects on fertility.

**Aspiration toxicity**

no data available

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic Compartment****Acute toxicity to fish**

LC50 - 96 h : 230 mg/l - Pimephales promelas (fathead minnow)

Method: OECD Test Guideline 203

Published data

**Acute toxicity to daphnia and other aquatic invertebrates.**

EC50 - 48 h : 100 mg/l - Daphnia

Published data

**Toxicity to aquatic plants**

EC50 - 48 h : 5,600 mg/l - Scenedesmus subspicatus

NOEC - 72 h : &lt; 100 mg/l - Scenedesmus subspicatus

Method: OECD Test Guideline 201

Unpublished reports

**Toxicity to microorganisms**

NOEC - 16 h : 650 mg/l - Pseudomonas putida

Published data

**Chronic toxicity to daphnia and other aquatic invertebrates.**

NOEC: 2.4 mg/l - 21 d - Daphnia magna (Water flea)

Reproduction Test

Published data

**12.2 Persistence and degradability**

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**Abiotic degradation****Stability in water**

Ethyl acetate

DT50: Half-life value: 16 y (24.9 °C)

pH: 5.0

Published data,

DT50: Half-life value: 2 y (24.9 °C)

pH: 7.0

Published data,

DT50: Half-life value: 7.5 Days (24.9 °C)

pH: 9.0

Published data,

**Photodegradation**

Ethyl acetate

Sensitizer: OH

Half-life indirect photolysis: 75 hrs

Published data

Ethanol

indirect photo-oxidation

Sensitizer: OH

Half-life indirect photolysis: ca. 6 Days

Air

**Biodegradation****Biodegradability**

Ultimate aerobic biodegradability

Method: OECD Test Guideline 301

94 % - 28 d

Readily biodegradable.

Published data

**12.3 Bioaccumulative potential****Partition coefficient: n-octanol/water**

Not potentially bioaccumulable

Published data

**Bioconcentration factor (BCF)**

Species: Fish

Bioconcentration factor (BCF): 30

Published data

**12.4 Mobility in soil****Adsorption potential (Koc)**

Ethyl acetate

Not expected to adsorb on soil.

internal evaluation

Ethanol

Evaporates.

Water

Soil/sediments

non-significant adsorption

**Known distribution to environmental compartments**

Ultimate destination of the product: Water

Ultimate destination of the product: Air

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**12.5 Results of PBT and vPvB assessment**

Ethyl acetate	This substance is not considered to be persistent, bioaccumulating, and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).
Ethanol	This substance is not considered to be persistent, bioaccumulating, and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

**12.6 Other adverse effects** no data available

**Ecotoxicity assessment**

**Acute aquatic toxicity** The product does not have any known adverse effects on the aquatic organisms tested

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product Disposal**

- Chemical additions, processing or otherwise altering this material may make the waste management information presented in this MSDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.
- Send to a licensed waste management company.
- Incinerate directly or in combination with a flammable solvent.
- This product may be used directly as a fuel stock with appropriate emissions control equipment.

***Prohibition***

- Do not dispose of with domestic refuse.
- The product should not be allowed to enter drains, water courses or the soil.

**Waste Code**

- RCRA Hazardous Waste (40 CFR 302)
- D001 - Ignitable waste – (I)

**Advice on cleaning and disposal of packaging**

- Dispose of in accordance with local regulations.

***Prohibition***

- Do not dispose of with domestic refuse.
- Beware of residues or vapors which remain in the drums.
- Do not burn, or use a cutting torch on the empty drum.

**SECTION 14: Transport information**

Transportation status: IMPORTANT! Statements below provide additional data on listed transport classification.

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The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

**DOT**

<b>14.1 UN number</b>	UN 1173
<b>14.2 Proper shipping name</b>	ETHYL ACETATE
<b>14.3 Transport hazard class</b>	3
Label(s)	3
<b>14.4 Packing group</b>	
Packing group	II
ERG No	129
<b>14.5 Environmental hazards</b>	NO
<b>Marine pollutant</b>	

**14.6 Special precautions for user**

This product contains one or more ingredients identified as a hazardous substance in Appendix A of 49 CFR 172.101. The product quantity, in one package, which triggers the RQ requirements under 49 CFR for each hazardous substance is shown.

Reportable quantities	:	RQ substance: Ethyl acetate
		RQ limit for substance: 5,000 lb
		RQ limit for product: 5,000 lb

**TDG**

<b>14.1 UN number</b>	UN 1173
<b>14.2 Proper shipping name</b>	ETHYL ACETATE
<b>14.3 Transport hazard class</b>	3
Label(s)	3
<b>14.4 Packing group</b>	
Packing group	II
ERG No	129
<b>14.5 Environmental hazards</b>	NO
<b>Marine pollutant</b>	

**NOM**

no data available

**IMDG**

<b>14.1 UN number</b>	UN 1173
<b>14.2 Proper shipping name</b>	ETHYL ACETATE
<b>14.3 Transport hazard class</b>	3
Label(s)	3



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**14.4 Packing group**

Packing group II

**14.5 Environmental hazards****Marine pollutant** NO**14.6 Special precautions for user**

EmS F-E , S-D

For personal protection see section 8.

**IATA****14.1 UN number**

UN 1173

**14.2 Proper shipping name**

ETHYL ACETATE

**14.3 Transport hazard class**

3

Label(s):

3

**14.4 Packing group**

Packing group II

Packing instruction (cargo aircraft)

364

Max net qty / pkg

60.00 L

Packing instruction (passenger aircraft)

353

Max net qty / pkg

5.00 L

**14.5 Environmental hazards**

NO

**14.6 Special precautions for user**

For personal protection see section 8.

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

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**SECTION 15: Regulatory information****15.1 Notification status**

Inventory Information	Status
United States TSCA Inventory	- On TSCA Inventory
Canadian Domestic Substances List (DSL)	- All components of this product are on the Canadian DSL.
Australia Inventory of Chemical Substances (AICS)	- On the inventory, or in compliance with the inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- On the inventory, or in compliance with the inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- On the inventory, or in compliance with the inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- On the inventory, or in compliance with the inventory

**15.2 Federal Regulations****US. EPA EPCRA SARA Title III****SARA HAZARD DESIGNATION SECTIONS 311/312 (40 CFR 370)**

Fire Hazard	yes
Reactivity Hazard	no
Sudden Release of Pressure Hazard	no
Acute Health Hazard	yes
Chronic Health Hazard	no

**Section 313 Toxic Chemicals (40 CFR 372.65)**

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.

**Section 302 Emergency Planning Extremely Hazardous Substance Threshold Planning Quantity (40 CFR 355)**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

**Section 302 Emergency Planning Extremely Hazardous Substance Reportable Quantity (40 CFR 355)**

This material does not contain any components with a SARA 302 RQ.

**Section 304 Emergency Release Notification Reportable Quantity (40 CFR 355)**

This material does not contain any components with a section 304 EHS RQ.

**US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)**

Ingredients	CAS-No.	Reportable quantity
Unlisted Hazardous Wastes - Characteristic of Ignitability	Not Assigned	100 lb
Ethyl acetate	141-78-6	5000 lb
Benzene	71-43-2	10 lb

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**15.3 State Regulations****US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)**

WARNING! This product contains a chemical known in the State of California to cause cancer.

Ingredients	CAS-No.
Benzene	71-43-2

WARNING: This product contains a chemical known in the State of California to cause birth defects or other reproductive harm.

Ingredients	CAS-No.
Benzene	71-43-2

**SECTION 16: Other information****NFPA (National Fire Protection Association) - Classification**

Health	2 moderate
Flammability	3 serious
Instability or Reactivity	0 minimal

**HMIS (Hazardous Materials Identification System (Paint & Coating)) - Classification**

Health	2 moderate
Flammability	3 serious
Reactivity	0 minimal
PPE	Determined by User; dependent on local conditions

**Further information**

- This sheet was updated (refer to the date at the top of this page). Subheadings and text which have been modified since the previous version are indicated with two vertical bars.
- Product evaluated under the US GHS format.

**Date Prepared:** 04/08/2015

**Key or legend to abbreviations and acronyms used in the safety data sheet**

- TWA	8-hour, time-weighted average
- ACGIH	American Conference of Governmental Industrial Hygienists
- OSHA	Occupational Safety and Health Administration
- NTP	National Toxicology Program
- IARC	International Agency for Research on Cancer
- NIOSH	National Institute for Occupational Safety and Health

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. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.