

## 1. Identification

**Name** 2-Ethylhexyl acetate

**CAS Number** 103-09-3

### Recommendation for the chemical and restrictions on use

**Applications** Performance chemical/ Industrial solvent.

**Restrictions** No specific uses advised against are identified.

### Supplier's Details

**InKemia Green Chemicals, Inc.**

1213 West Loop North Suite 140 , Houston, TX 77005

+1 (713) 909-7717

web@inkemiagreenchemicals.com

### Emergency contact number

**InKemia Green Chemicals, Inc.**

Tel: +1 (713) 909-7717

For emergency calls only.

## 2. Hazards

### Classification of the substance or mixture

**Classification** Combustible liquid (Category 4), H227.  
Skin irritation (Category 2), H315.  
Acute aquatic toxicity (Category 2), H401.

### Label elements

#### Pictogram



#### Signal word

**Warning**

#### Hazard Statements

H227 - Combustible liquid.  
H315 - Causes skin irritation.  
H401 - Toxic to aquatic life.

#### Precautionary Statements

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
P264 - Wash skin thoroughly after handling.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.

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P302 + P352 - IF ON SKIN: Wash with plenty of soap and water  
P321 - Specific treatment (see supplemental first aid instructions on this label).  
P332 + P313 - If skin irritation occurs: Get medical advice/attention.  
P362 - Take off contaminated clothing.  
P370 + P378 - In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.  
P403 - Store in a well-ventilated place.  
P501 - Dispose of contents/container to an approved waste disposal plant  
**Other Hazards** None.

## 3 - Composition/information on ingredients

### Substances

<b>Chemical Name</b>	2-Ethylhexyl acetate
<b>Synonyms</b>	Ethyl hexyl acetate, 2-Ethylhexyl ester , 2-Ethyl-1-hexanol acetate 2-Ethylhexyl ethanoate, 2-Ethyl-1-hexyl acetate.
<b>CAS Number</b>	103-09-3
<b>Molecular Formula</b>	C10H20O2
<b>Molecular Weight (g/mol)</b>	172.268

### Hazardous components

Component	Classification	Concentration
2-Ethylhexyl acetate	H227, H315, H402; Flam. Liq. 4; Skin Irrit. 2; Aquatic Acute 2.	<= 100 %

Note: For the full text of the H-Statements mentioned in this Section, see Section 16.

**Impurities and stabilizing additives** No data available.

**Mixtures** Not Applicable.

## 4 - First-aid measures

### Description of first aid measures

**General information** Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.

**Inhalation** Remove from exposure, moving to fresh air. Artificial respiration and oxygen are necessary if not breathing. Consult a physician.

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<b>Ingestion</b>	Wash out mouth with water if the person is conscious. Do not induce vomiting. Consult a physician.
<b>Skin contact</b>	Immediately wash skin with soap and copious amounts of water.
<b>Eye contact</b>	Immediately irrigate with copious amounts of water for 15 minutes. Consult a physician.
<b>Protection of first-aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue.

### **Most important symptoms and effects, both acute and delayed**

<b>General information</b>	The severity of the symptoms described might vary depending on the concentration and length of exposure.
<b>Inhalation</b>	Slightly dangerous
<b>Ingestion</b>	Slightly dangerous
<b>Skin contact</b>	May cause irritation
<b>Eye contact</b>	May cause irritation

### **Indication of immediate medical attention and special treatment need**

<b>Notes for the doctor</b>	Treat symptomatically
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## **5 - Fire-fighting measure**

### **Extinguishing media**

<b>Suitable extinguisher media</b>	Dry chemical, carbon dioxide or water fog. Do not use water directly on the fire.
<b>Unsuitable extinguisher media</b>	No data available

### **Special hazards arising from the substance of mixture**

<b>Specific hazards</b>	Violent steam generation or eruption may occur upon application of direct water stream to hot liquids.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

### **Advice for firefighters**

#### **Protective actions during firefighting**

Avoid breathing fire gases or vapors. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out. Avoid discharge to the aquatic environment. Control runoff water by containing and keeping it out of sewers and

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watercourses. If the risk of water pollution occurs, notify appropriate authorities.

### Special protective equipment for firefighting

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Standard Firefighter's clothing including helmets, protective boots, and gloves provide a basic level of protection for chemical incidents.

## 6 – Accidental release measures

### Personal precautions, protective equipment, and emergency procedures

#### Personal Precautions

Wear protective clothing as described in Section 8 of this safety data sheet. No action shall be taken without appropriate training or involving any personal risk. Do not touch or walk into the spilled material.

### Environmental precautions

#### Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

### Methods and materials for containment and cleanup

#### Methods for cleaning

Contain and remove the spillage, soaking up the residue with non-flammable absorbent. Place in an adequate container for immediate disposal. Eliminate sources of ignition. For waste disposal see Section 13.

#### Reference to other sections

For personal protection see Section 8. See Section 11 for additional information on health hazards. See Section 12 for additional information on ecological hazards. For disposal see section 13.

## 7 – Handling and storage

### Precautions for safe handling

#### Usage precautions

Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink, and animal feeding stuff. Keep container tightly sealed when not in use. Avoid discharge to the aquatic environment. Do not handle until all safety precautions have been read and understood. Do not handle broken packages without protective equipment. Do not reuse empty containers. For precautions see Section 2.

#### Advice on general occupational hygiene

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Promptly wash if in contact with skin. Take off contaminated clothing and wash before reuse. Wash contaminated clothing before reuse.

### **Conditions for safe storage, including any Incompatibilities**

#### **Storage precautions**

Store away from incompatible materials (see Section 10). Keep only in the original container. Keep container tightly closed, in a cool, well-ventilated place. Keep containers upright. Protect containers from damage. Keep in a fresh and dry place, avoiding direct sunlight. Keep container tightly sealed, in a fireproof place.

#### **Storage class**

Miscellaneous hazardous material storage. Preferably in a well-ventilated solvent cabinet.

#### **Specific end uses**

The identified uses for this product are in Section 1.

### **8 – Exposure controls/personal protection**

#### **Control parameters**

#### **Occupational exposure limits:**

Contains no substances with occupational exposure limit values.

#### **Protective equipment**



#### **Engineering control measures**

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

#### **Eye/Face protection**

Wear safety glasses with side-shields.

#### **Hand protection**

Avoid skin contact. Wear protective clothes and solvent resistant gloves (nitrile).

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## Other skin and body protection

Use engineering controls to reduce air contamination to permissible exposure level. Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapor contact.

## Hygiene measures

Wash after use and before eating, smoking and using the toilet. Do not eat, drink or smoke when using this product.

## Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with a multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## Environmental exposure

Do not let product enter drains. Discharge into the environment must be avoided.

## 9 – Physical and chemical properties

<b>Appearance</b>	Clear colorless liquid.	<b>Water miscibility @ 20 °C, g/L</b>	Immiscible.
<b>Odor threshold</b>	0.51 mg/m <sup>3</sup> (odor low); 1.47 mg/m <sup>3</sup> (odor high).	<b>Solubility (other)</b>	Ether and ethanol.
<b>Melting point/Freezing point, °C</b>	-80.0	<b>Partition coefficient, log Pow @ 25 °C</b>	4.20
<b>Boiling point, °C</b>	199.0	<b>Autoignition temperature, °C</b>	268
<b>Flash point</b>	71.0	<b>Decomposition temperature, °C</b>	No data available.
<b>Evaporation rate</b>	0.04 (n-Butyl acetate=1)	<b>Dynamic viscosity @ 25 °C, cP</b>	1.30
<b>Upper / lower flammability or/and explosive limits</b>	No data available.	<b>Explosive properties</b>	No data available.
<b>Vapor pressure @ 20 °C, kPa</b>	0.031	<b>Oxidizing properties</b>	No data available.
<b>Vapor density (air=1)</b>	5.93	<b>Flammability</b>	Flammable liquid.
<b>Relative density @ 25 °C, g/cm<sup>3</sup></b>	0.873	<b>Surface tension @ 20 °C, mN/m</b>	27.5

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## 10 - Stability and reactivity

<b>Reactivity</b>	No data available.
<b>Chemical stability</b>	Stable under normal storage conditions.
<b>Possibility of hazardous reactions</b>	Hazardous polymerization do not occur under normal conditions.
<b>Incompatible materials</b>	Strong oxidizing agents. Strong bases. Strong acids.
<b>Conditions to avoid</b>	Ignition sources.
<b>Hazardous decomposition products</b>	No data available.

## 11 - Toxicological information

### Acute toxicity - oral

<b>Acute toxicity - oral (LD50,mg/kg)</b>	>5,000
<b>Species</b>	Rat
<b>Notes (oral LD50)</b>	Based on available data the classification criteria are not met.

### Acute toxicity - dermal

<b>Acute toxicity - dermal (LD50,mg/kg)</b>	No data available.
<b>Species</b>	No data available.
<b>Notes (Dermal LD50)</b>	Based on available data the classification criteria are not met.

### Acute toxicity - inhalation

<b>Acute toxicity - inhalation (LC50,dust/mist mg/l)</b>	No data available.
<b>Species</b>	No data available.
<b>Notes (Inhalation LD50)</b>	Based on available data the classification criteria are not met.
<b>ATE inhalation (Dust/mists mg/l)</b>	Based on available data the classification criteria are not met.

### Skin corrosion/irritation

<b>Result</b>	Rabbit - Skin irritation (48h. OECD Test Guideline 404)
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### Serious eye damage/irritation

<b>Result</b>	Rabbit - No eyes irritation (72h. OECD Test Guideline 405)
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### Respiratory sensitization

<b>Result</b>	Based on available data the classification criteria are not met.
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### Skin sensitization

<b>Result</b>	Based on available data the classification criteria are not met.
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## Germ cell mutagenicity

### Genotoxicity – in vitro

Based on available data the classification criteria are not met.

## Carcinogenicity

### IARC

Based on available data the classification criteria are not met.

## Reproductive toxicity

### Fertility

Based on available data the classification criteria are not met.

### Development

Based on available data the classification criteria are not met.

## Specific target organ toxicity

### STOT-single exposure

Based on available data the classification criteria are not met.

### STOT-repeated exposure

Based on available data the classification criteria are not met.

## Additional information

### General information

This product is not classified as hazardous.

### Inhalation

Vapor may cause dizziness.

### Ingestion

It can cause depression of the system central nervous.

### Skin contact

Skin irritant.

### Eye contact

Based on available data the classification criteria are not met.

### Route of entry

Ingestion, Inhalation, skin and/or eye contact.

### Target organs

Not specific target organ known.

## 12 – Ecological information

## Toxicity

### Ecotoxicity

Toxic to aquatic life. Large or frequent spills will have dangerous effects on the environment.

### *Acute toxicity*

### Toxicity to fish

LC50 (96h.) = 8.27 mg/l (Rainbow trout, OECD Test Guideline 203)

### Aquatic invertebrates

EC50 (48h.) = 22.9 mg/l (Daphnia magna, OECD Test Guideline 202)

### Aquatic plants

EC50 (72h.) = 21.9 mg/l (Selenastrum capricornutum, green algae, OECD Test Guideline 201)

### *Chronic toxicity*

### Toxicity to fish

No data available.



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<b>Aquatic invertebrates</b>	No data available.
<b>Aquatic plants</b>	No data available.
<b><u>Persistency and biodegradability</u></b>	
<b>Persistency and biodegradability</b>	Readily biodegradable (80 wt.% (28 days), OECD Test Guideline 301B).
<b>Biological oxygen demand(mg/g)</b>	No data available.
<b>Chemical oxygen demand(mg/g)</b>	No data available.
<b>BOD/COD ratio</b>	No data available.
<b>Bioaccumulative potential</b>	There are neither aquatic nor terrestrial studies for bioaccumulation of 2-ethylhexyl acetate available. Predictions of the BCF using TEST-EPA and EPI Suite result in relatively low values between 8 and 150. Therefore significant accumulation in organisms is not expected.
<b>Mobility in soil</b>	Based upon a calculated log Koc (2.35) adsorption of 2 -Ethylhexyl acetate to solid soil phase is not expected.
<b>Results of PBT and vPvB</b>	No data available.
<b>Other adverse effects</b>	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

### 13 – Disposal considerations

#### Waste treatment methods

##### **General information**

The generation of waste should be minimized or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of safely. When handling waste, the safety precautions applying to the handling of the product should be considered. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues

##### **Disposal methods**

Do not empty into drains. Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labeled with their contents. Incineration and landfill should only be considered when recycling is not feasible.

## 14 - Transport information

<b>DOT (US)</b>	UN number: NA 1993 Class: NONE Packing group: III Proper shipping name: Combustible liquid, n.o.s. (2-Ethylhexyl acetate) Reportable Quantity (RQ): Poison Inhalation Hazard: No
<b>IMDG</b>	Not dangerous goods
<b>IATA</b>	Not dangerous goods
<b>Transport in bulk according to</b>	Annex II of MARPOL 73/78, and the IBC Code Not relevant.

## 15 - Regulatory information

### US Federal Regulations and state regulations

Components of the product are listed in the quoted regulations. For details, please refer to the regulations directly. This list is not exhaustive; please check for other applicable regulations.

**This product has been classified by hazard criteria of the Controlled Products Regulations, and the SDS contains all the information required by the Controlled Products Regulations.**

### US Federal Regulations

#### **SARA 302 Section 302 (Specific toxic chemical listings)**

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

#### **SARA Section 311/312 (Specific toxic chemical listings)**

Fire Hazard, Acute Health Hazard.

#### **SARA Section 313 (Specific toxic chemical listings)**

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.

#### **RCRA (hazardous waste code)**

None of the ingredients are listed.

#### **TSCA (Toxic Substances Control Act)**

CAS 103-09-3 is listed on the TSCA inventory.

#### **CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act)**

None of the ingredients are listed.

### US State Regulations

#### **Proposition 65 (California)**

##### **Chemicals are known to cause cancer**

None of the chemicals in this product are listed.

##### **Chemicals are known to cause reproductive toxicity for females**

None of the chemicals in this product are listed.

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### Chemicals are known to cause reproductive toxicity for males

None of the chemicals in this product are listed.

### Massachusetts Right to Know Components

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### Pennsylvania Right to Know Components

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### New Jersey Right to Know Components

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### Canada

#### Canadian Domestic Substances List (DSL)

CAS: 103-09-3 is listed on Canada's DSL List.

#### Canadian NPRI Ingredient Disclosure list (limit 0.1%)

The substance is not specified on any list. There is no control measure imposed to this substance.

#### Canadian NPRI Ingredient Disclosure list (limit 1%)

The substance is not specified on any list. There is no control measure imposed to this substance.

## 16 – Other information

### Full text of H-Statements referred to under sections 2 and 3

H315 Causes skin irritation.

H227 Combustible liquid.

H401 Toxic to aquatic life.

Skin Irrit. Skin irritation

Flam. Liq. Flammable liquids

Acute aquatic toxicity.

### GHS Column Model 2017 Classification

Acute health hazards (single exp)	Low
Chronic health hazards (repeated exp.)	Negligible
Environmental hazards	Negligible
Physical-chemical hazards	Low

### Further Information

The information above is believed to be accurate and represents the best information available. However, we make no warranty of merchantability or any other warranty, express or implied, on such information and we assume no liability resulting from its use. Users should make their investigations to determine the suitability of the information for their purposes. In no event shall the InKemia Green Chemicals, Inc. be liable for any claims, losses or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages arising, even if the InKemia Green Chemicals, Inc. has been advised of the possibility of such damages.

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