

# Safety Data Sheet (SDS) OSHA HazCom Standard 29 CFR 1910.1200(g) and GHS Rev 03.

### Printing date 04/15/2015

Reviewed on 04/15/2015

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Printing date 04/15/2015	Reviewed on 04/15/20
1 Identification	
· Product identifier	
<ul> <li>Trade name: Ethyl acetate</li> <li>CAS Number: 141-78-6</li> <li>EC number: 205-500-4</li> <li>Index number: 607-022-00-5</li> <li>Relevant identified uses of the substance or mixture and uses</li> </ul>	advised against
No further relevant information available.	auviseu agailist
<ul> <li>Details of the supplier of the safety data sheet</li> <li>Manufacturer/Supplier: NuGeneration Technologies, LLC (dba NuGenTec) 1155 Park Avenue, Emeryville, CA 94608 salesteam@nugentec.com 888-996-8436 or 707-820-4080 for product information</li> <li>Emergency telephone number: PERS Emergency Response Domestic And Canada: 1-800-633-8253 International: 1-801-629-0667</li> </ul>	www.nugentec.co
• Classification of the substance or mixture GHS02 Flame	
Flam. Liq. 2 H225 Highly flammable liquid and vapor.	
Eye Irrit. 2 H319 Causes serious eye irritation. STOT SE 3 H336 May cause drowsiness or dizziness.	
<ul> <li>Label elements</li> <li>GHS label elements</li> <li>The substance is classified and labeled according to the Globally F</li> <li>Hazard pictograms</li> </ul>	Harmonized System (GHS).
GHS02 GHS07	

Highly flammable liquid and vapor.

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Causes serious eye irritation. May cause drowsiness or dizziness. · Precautionary statements Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Use explosion-proof electrical/ventilating/lighting/equipment. Avoid breathing dust/fume/gas/mist/vapors/spray Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eve protection/face protection. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Wash thoroughly after handling. IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/ shower. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center/doctor if you feel unwell. If eye irritation persists: Get medical advice/attention. In case of fire: Use for extinction: CO2, powder or water spray. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations. · Classification system: · NFPA ratings (scale 0 - 4) Health = 1Fire = 3Reactivity = 0· HMIS-ratings (scale 0 - 4) HEALTH 1 Health = 1FIRF Fire = 33 Reactivity = 0REACTIVITY 0 · Hazard(s) not otherwise classified (HNOC): None known

### 3 Composition/information on ingredients

- · Chemical characterization: Substances
- CAS No. Description
   141-78-6 Ethyl acetate
- · Identification number(s)
- · EC number: 205-500-4
- · Index number: 607-022-00-5

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### 4 First-aid measures

- · Description of first aid measures
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Generally the product does not irritate the skin.
- After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. Rinse opened eye for at least 15 minutes under running water. If symptoms persist, consult a doctor.
- · After swallowing: If swallowed and symptoms occur, consult a doctor.
- · Information for doctor:
- *Most important symptoms and effects, both acute and delayed* No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

### 5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment:

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

### 6 Accidental release measures

- Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- · Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up: Absorb with liquid-binding material (ie. sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation. Dispose of the collected material according to regulations.
- Reference to other sections
   See Section 7 for information on safe handling.
   See Section 8 for information on personal protection equipment.
   See Section 13 for disposal information.

# 7 Handling and storage

· Handling:

· Precautions for safe handling No special precautions are necessary if used correctly.

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- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Store in cool, dry conditions in well sealed receptacles.
- Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.

### · Control parameters

· Components with occupational exposure limits:

### 141-78-6 Ethyl acetate

PEL Long-term value: 1400 mg/m<sup>3</sup>, 400 ppm

REL Long-term value: 1400 mg/m<sup>3</sup>, 400 ppm

TLV Long-term value: 1440 mg/m<sup>3</sup>, 400 ppm

· Additional information: The lists that were valid during the creation of this SDS were used as basis.

### · Exposure controls

· Personal protective equipment:

- · General protective and hygienic measures:
- The usual precautionary measures for handling chemicals should be followed.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing and wash before reuse.

Wash hands before breaks and at the end of work.

- Avoid contact with the eyes.
- Avoid contact with the eyes and skin.

· Breathing equipment: Not required.

• Protection of hands:

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Select glove material based on penetration times, rates of diffusion and degradation.

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break-through time has to be determined and observed by the manufacturer of the protective gloves.

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· Eye protection:



Tightly sealed goggles

9 Physical and chemical prope	rties
<ul> <li>Information on basic physical and</li> <li>General Information</li> <li>Appearance:</li> </ul>	chemical properties
Form: Color:	Liquid Colorless
· Odor: · Odor threshold:	Fruit-like Not determined.
· pH-value:	Not determined.
<ul> <li>Change in condition Melting point/Melting range: Boiling point/Boiling range:</li> </ul>	-83.57 °C (-118 °F) 77-78 °C (171-172 °F)
· Flash point:	-1 °C (30 °F)
· Flammability (solid, gaseous):	Not applicable.
· Ignition temperature:	460 °C (860 °F)
· Decomposition temperature:	Not determined.
· Auto igniting:	Not determined.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
<ul> <li>Explosion limits: Lower: Upper:</li> </ul>	2.1 Vol % 11.5 Vol %
· Vapor pressure @ 20 °C (68 °F):	97 hPa (73 mm Hg)
<ul> <li>Density @ 20 °C (68 °F):</li> <li>Relative density</li> <li>Vapor density</li> <li>Evaporation rate</li> </ul>	0.9 g/cm³ (7.511 lbs/gal) Not determined. Not determined. Not determined.
<ul> <li>Solubility in / Miscibility with Water @ 20 °C (68 °F):</li> </ul>	79 g/l
· Partition coefficient (n-octanol/wat	er): Not determined.
<ul> <li>Viscosity:</li> <li>Dynamic @ 20 °C (68 °F):</li> <li>Kinematic:</li> </ul>	0.44 mPas Not determined.
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· Other information

No further relevant information available.

### 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability Stable under normal conditions.
- *Thermal decomposition / conditions to be avoided:* No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid Heat, flame and ignition sources.
- · Incompatible materials: No further relevant information available.

· Hazardous decomposition products: No dangerous decomposition products known.

# 11 Toxicological information

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

Oral LD50 5620 mg/kg (rabbit)

Inhalative LC50/4 h 1600 mg/l (rat)

- · Primary irritant effect:
- on the skin: No irritating effect.
- · on the eye:
- Irritating effect.
- Causes serious eye irritation.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer)
- NTP (National Toxicology Program) Substance is not listed.
- · OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

### 12 Ecological information

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes: Not known to be hazardous to water.
- · Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · vPvB: Not applicable.

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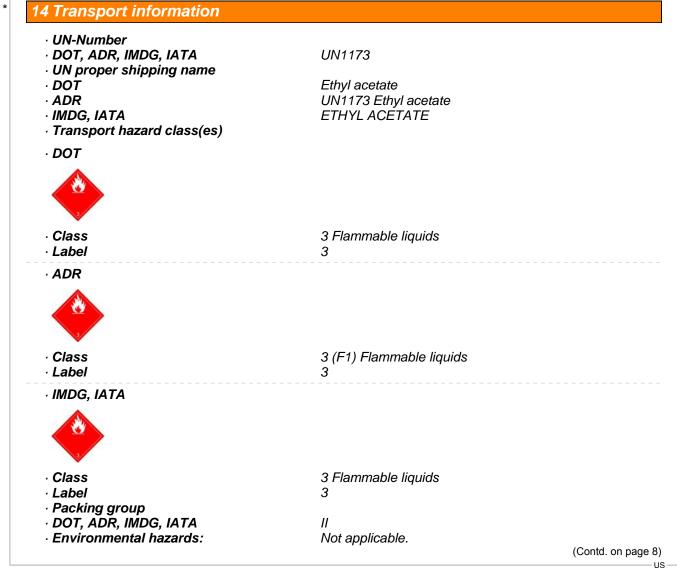
· Other adverse effects No further relevant information available.

# 13 Disposal considerations

- · Waste treatment methods
- · Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- · Recommendation: Disposal must be made according to official regulations.





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Special precautions for user	Warning: Flammable liquids
Danger code (Kemler): EMS Number:	33 F-E,S-D
Transport in bulk according to Anne.	
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations	On passenger aircraft/rail: 5 L
	On cargo aircraft only: 60 L
Hazardous substance:	5000 lbs, 2270 kg
ADR	
Excepted quantities (EQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
IMDG	
Limited quantities (LQ)	1L
Excepted quantities (ÉQ)	Code: E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
UN "Model Regulation":	UN1173, Ethyl acetate, 3, II

### 15 Regulatory information

- $\cdot$  Safety, health and environmental regulations/legislation specific for the substance or mixture  $\cdot$  Sara
- · Section 355 (extremely hazardous substances): Substance is not listed.
- · Section 313 (Specific toxic chemical listings): Substance is not listed.
- TSCA (Toxic Substances Control Act): Substance is listed.
- · Proposition 65
- · Chemicals known to cause cancer: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for females: Substance is not listed.
- · Chemicals known to cause reproductive toxicity for males: Substance is not listed.
- · Chemicals known to cause developmental toxicity: Substance is not listed.
- · Carcinogenic categories
- · EPA (Environmental Protection Agency) Substance is not listed.
- TLV (Threshold Limit Value established by ACGIH) Substance is not listed.
- · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed.
- GHS label elements
- The substance is classified and labeled according to the Globally Harmonized System (GHS). **Hazard pictograms**



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# 16 Other information

The information and recommendations in this safety data sheet are, to the best of our knowledge, accurate as of the date of issue. Nothing herein shall be deemed to create warranty, expressed or implied and shall not establish a legally valid contractual relationship. It is the responsibility of the user to determine applicability of this information and the suitability of the material or product for any particular purpose.

- · Date of preparation / last revision 04/15/2015 / 2
- Abbreviations and acronyms:
   ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road
   ADN: The European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
   IMDG: International Maritime Code for Dangerous Goods
   DOT: US Department of Transportation
   IATA: International Air Transport Association
   ACGIH: American Conference of Governmental Industrial Hygienists
   EINECS: European Inventory of Existing Commercial Chemical Substances
   CAS: Chemical Abstracts Service (division of the American Chemical Society)
   NFPA: National Fire Protection Association (USA)
   HMIS: Hazardous Materials Identification System (USA)

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LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent LD50: Lethal dose, 50 percent Flam. Liq. 2: Flammable liquids, Hazard Category 2 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3 \* Dot accessed by the province supervision entered \* \* Data compared to the previous version altered.

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