1 Identification of the substance/mixture and of the company/undertaking

· 1.1 Product identifier
· Trade name: ESTISOL 140

· 1.2 Relevant identified uses of the substance or mixture and uses advised against
No further relevant information available.

· Application of the substance / the mixture
Solvents

· 1.3 Details of the supplier of the safety data sheet
· Manufacturer/Supplier:
  Esti Chem A/S
  Erhvervsparken 16
  DK - 4621 Gadstrup
  Tel.: +45-56-65 33 72
  Fax.: +45-56-65 33 75

· Further information obtainable from:
  product safety department
  birgit.pape@additiv-chemie.de

· 1.4 Emergency telephone number:
  +45-56653372 - Office hours (Mo.-Fr. 8:00 - 16.00)
  +45-40113372 - Outside office hours

2 Hazards identification

· 2.1 Classification of the substance or mixture
· Classification according to Regulation (EC) No 1272/2008

   GHS07

Skin Irrit. 2  H315  Causes skin irritation.

   Classification according to Directive 67/548/EEC or Directive 1999/45/EC
   Xi; Irritant
   R38:  Irritating to skin.

   Information concerning particular hazards for human and environment:
The product does not have to be labelled due to the calculation procedure of the "General Classification
guideline for preparations of the EU" in the latest valid version.

   Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature
data.

· 2.2 Label elements
· Labelling according to Regulation (EC) No 1272/2008
  The product is classified and labelled according to the CLP regulation.

   · Hazard pictograms GHS07
   · Signal word Warning
   · Hazard statements
     H315 Causes skin irritation.

   · Precautionary statements
     P280  Wear protective gloves/protective clothing/eye protection/face protection.
     P264  Wash thoroughly after handling.
     P321  Specific treatment (see on this label).
     P362  Take off contaminated clothing and wash before reuse.
     P332+P313 If skin irritation occurs: Get medical advice/attention.
     P302+P352 IF ON SKIN: Wash with plenty of soap and water.

· 2.3 Other hazards
· Results of PBT and vPvB assessment
· PBT: Not applicable.

(Contd. on page 2)
Safety data sheet  
according to 1907/2006/EC, Article 31

Trade name: ESTISOL 140

3 Composition/information on ingredients

3.2 Chemical characterization: Mixtures
- Description: Mixture of substances listed below with non hazardous additions.

- Dangerous components:
  - CAS: 103-09-3
  - EINECS: 203-079-1
  - Reg.nr.: 01-2119483620-40-XXXX
  - 2-ethylhexyl acetate
  - Xi R38 Skin Irrit. 2, H313
  - > 50%

- Additional information: For the wording of the listed risk phrases refer to section 16.

4 First aid measures

4.1 Description of first aid measures
- General information: No special measures required.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact: Rinse opened eye for several minutes under running water.
- After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed: No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed: No further relevant information available.

5 Firefighting measures

5.1 Extinguishing media
- Suitable extinguishing agents: CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture: No further relevant information available.

5.3 Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures: Wear protective clothing.

6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

6.4 Reference to other sections: No dangerous substances are released.

7 Handling and storage

7.1 Precautions for safe handling: No special measures required.

7.2 Conditions for safe storage, including any incompatibilities
- Storage:
  - Requirements to be met by storerooms and receptacles: Provide solvent resistant, sealed floor.
  - Information about storage in one common storage facility: Store away from foodstuffs.
  - Further information about storage conditions: None.

(Contd. on page 3)
8 Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.

- **8.1 Control parameters**
  - **Ingredients with limit values that require monitoring at the workplace:**
    The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
  - **DNELs**
    - **Workers - Hazard via inhalation route, local / systemic:**
      - long term exposure 71,8 mg/m³
      - acute/short term exposure 143,6 mg/m³
    - **Workers - Hazard via dermal route:**
      - long term exposure 55,11 mg/kg bw / day
    - **Additional information:** The lists valid during the making were used as basis.

- **8.2 Exposure controls**
  - **Personal protective equipment:**
    - **General protective and hygienic measures:**
      The usual precautionary measures are to be adhered to when handling chemicals.
    - **Respiratory protection:** Not required.
    - **Protection of hands:**
      Only use chemical-protective gloves with CE-labelling of category III.
      To minimize the wetness in the glove due to perspiration changing of gloves during a shift is required.
      For the protection against chemicals in areas with heightened risk of injury (mechanical hazard) no recommendation for a suitable glove material can be given.
      The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.
      Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
    - **Material of gloves**
      Neoprene gloves
      Butyl rubber, BR
      Natural rubber, NR
    - **Penetration time of glove material**
      For the mixture of chemicals mentioned below the penetration time has to be at least > 60 minutes (Permeation according to EN 374 Part 3: Level 1).
      The determined penetration times according to EN 374 part III are not performed under practical conditions.
      Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
      Value for the permeation: Level ≤ 1
      The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
    - **Eye protection:** Goggles recommended during refilling

9 Physical and chemical properties

- **9.1 Information on basic physical and chemical properties**
  - **General Information**
  - **Appearance:**
    - **Form:** Fluid
    - **Colour:** Clear
    - **Odour:** Fruit-like
    - **Odour threshold:** 0,2 ppm
### Change in condition
- Melting point/Melting range: -93 °C
- Boiling point/Boiling range: 199 °C
- Pour point: Undetermined
- Flash point: 75 °C
- Ignition temperature: 270 °C
- Danger of explosion: Product does not present an explosion hazard
- Explosion limits:
  - Lower: 1.1 Vol %
  - Upper: 7.5 Vol %
- Density at 20 °C: 0.865 g/cm³
- Solubility in / Miscibility with water: Not miscible
- Other information: No further relevant information available.

### Stability and reactivity
- **10.1 Reactivity**
- **10.2 Chemical stability**
  - Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials**: No further relevant information available.
- **10.6 Hazardous decomposition products**: No dangerous decomposition products known.

### Toxicological information
- **11.1 Information on toxicological effects**
- **Acute toxicity**:
  - LD/LC50 values relevant for classification:
    - Oral LD₅₀ 3000 mg/kg (rat)
- **Primary irritant effect**:
  - on the skin: Irritant to skin and mucous membranes.
  - on the eye: No irritating effect.
- **Sensitization**: No sensitizing effects known.
- **Additional toxicological information**:
  - The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
    - Irritant
  - Acute effects (acute toxicity, irritation and corrosivity)
    - Dermal (rabbit): OECD 404 (Acute Dermal Irritation / Corrosion Category 2 (Irritant))

### Ecological information
- **12.1 Toxicity**
  - Aquatic toxicity: No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
Safety data sheet
according to 1907/2006/EC, Article 31

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· Additional ecological information:
· General notes:
  Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water
  Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.
· 12.5 Results of PBT and vPvB assessment
  · PBT: Not applicable.
  · vPvB: Not applicable.
· 12.6 Other adverse effects: No further relevant information available.

13 Disposal considerations
· 13.1 Waste treatment methods
  · Recommendation
  Must not be disposed together with household garbage. Do not allow product to reach sewage system.
· Uncleaned packaging:
  · Recommendation: Disposal must be made according to official regulations.

14 Transport information
· 14.1 UN-Number
  · ADR, ADN, IMDG, IATA Void
· 14.2 UN proper shipping name
  · ADR, ADN, IMDG, IATA Void
· 14.3 Transport hazard class(es)
  · ADR, ADN, IMDG, IATA Void
· 14.4 Packing group
  · ADR, IMDG, IATA Void
· 14.5 Environmental hazards:
  · Marine pollutant: No
· 14.6 Special precautions for user
  · Not applicable.
· 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
  · Not applicable.
· UN “Model Regulation”:
  · -

15 Regulatory information
· 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information
This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Relevant phrases
  · H315 Causes skin irritation.
  · R38 Irritating to skin.
· Department issuing MSDS: product safety department
**Trade name:** ESTISOL 140

- **Contact:** Mrs. Birgit Pape
- **Abbreviations and acronyms:**
  - ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  - IMDG: International Maritime Code for Dangerous Goods
  - IATA: International Air Transport Association
  - GHS: Globally Harmonized System of Classification and Labelling of Chemicals
  - EINECS: European Inventory of Existing Commercial Chemical Substances
  - ELINCS: European List of Notified Chemical Substances
  - CAS: Chemical Abstracts Service (division of the American Chemical Society)
  - DNEL: Derived No-Effect Level (REACH)
  - LC50: Lethal concentration, 50 percent
  - LD50: Lethal dose, 50 percent