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

1.1. Product identifier

Product form : Mixture
Physical state : Liquid
Product name : BISMUTH 2-ETHYLHEXANOATE, 80-85% in mineral spirits
Product code : CXBI040
Formula : C24H45BiO6
Synonyms : BISMUTH OCTOATE; 2-ETHYLHEXANOIC ACID, BISMUTH SALT; BISMUTH TRIS(2-ETHYLHEXANOATE)
Chemical family : METAL COMPOUND

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : Chemical intermediate

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

GELEST, INC.
11 East Steel Road
Morrisville, PA 19067
USA
T 215-547-1015 - F 215-547-2484 - (M-F): 8:00 AM - 5:30 PM EST
info@gelest.com - www.gelest.com

GELEST INC.
Fritz-Klatte-Strasse 8
65933 Frankfurt
Germany
T +49 (0) 69 3535106-500 - F +49 (0) 69 3535106-501 - (M-F): 8:00 AM - 4:00 PM
info@geleste.com - www.geleste.com

1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Flammable liquids, Category 3 H226
Germ cell mutagenicity, Category 1B H340
Carcinogenicity, Category 1B H350
Reproductive toxicity, Category 2 H361
Specific target organ toxicity — Repeated exposure, Category 1 H372
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects
No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]
Hazard pictograms (CLP) : GHS02 GHS08
BISMUTH 2-ETHYLHEXANOATE, 80-85% in mineral spirits
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Signal word (CLP) : Danger
Hazardous ingredients : 2-Ethylhexanoic acid; Mineral spirits (naptha, medium aliphatic)
Hazard statements (CLP) : H226 - Flammable liquid and vapour.
H340 - May cause genetic defects.
H341 - Suspected of damaging fertility or the unborn child.
H342 - Causes damage to organs through prolonged or repeated exposure.
Precautionary statements (CLP) : P202 - Do not handle until all safety precautions have been read and understood.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 - Ground/bond container and receiving equipment.
P264 - Wash hands thoroughly after handling.
P314 - Get medical advice/attention if you feel unwell.

2.3. Other hazards
No additional information available

SECTION 3: Composition/Information on ingredients

3.1. Substances
Not applicable

3.2. Mixtures

<table>
<thead>
<tr>
<th>Name</th>
<th>Product identifier</th>
<th>%</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bismuth 2-ethylhexanoate</td>
<td>(CAS-No.) 67874-71-9</td>
<td>&gt; 80</td>
<td>Not classified</td>
</tr>
<tr>
<td>Mineral spirits (naptha, medium aliphatic)</td>
<td>(CAS-No.) 8052-41-3</td>
<td>&gt; 20</td>
<td>Mut. 1B, H340, Carc. 1B, H350, STOT RE 1, H372, Asp. Tox. 1, H304</td>
</tr>
<tr>
<td>2-Ethylhexanoic acid</td>
<td>(CAS-No.) 149-57-5</td>
<td>&lt; 5</td>
<td>Repr. 2, H361d</td>
</tr>
</tbody>
</table>

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact : Wash with plenty of water/…. Get medical advice/attention.

First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion : Never give anything by mouth to an unconscious person. Get medical advice/attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Suspected of damaging fertility or the unborn child.
Symptoms/effects after inhalation : May cause respiratory irritation.
Symptoms/effects after skin contact : Causes skin irritation.
Symptoms/effects after eye contact : Causes serious eye irritation.
Symptoms/effects after ingestion : May be harmful if swallowed.

4.3. Indication of any immediate medical attention and special treatment needed
No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Unsuitable extinguishing media : None known.
BISMUTH 2-ETHYLHEXANOATE, 80-85% in mineral spirits
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5.2. Special hazards arising from the substance or mixture
Fire hazard: Flammable liquid and vapour. Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.

5.3. Advice for firefighters
Firefighting instructions: Exercise caution when fighting any chemical fire. Use water spray to cool exposed surfaces.
Protection during firefighting: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapour and mist.

SECTION 6: Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures
General measures: Eliminate ignition sources. Use special care to avoid static electric charges.
6.1.1. For non-emergency personnel
Protective equipment: Wear protective equipment as described in Section 8.
Emergency procedures: Evacuate unnecessary personnel.
6.1.2. For emergency responders
Protective equipment: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions
Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up
For containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up: Clean up any spills as soon as possible, using an absorbent material to collect it. Sweep or shovel spills into appropriate container for disposal. Use only non-sparking tools.

6.4. Reference to other sections
See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage
7.1. Precautions for safe handling
Additional hazards when processed: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Precautions for safe handling: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid all eye and skin contact and do not breathe vapour and mist. Ground/bond container and receiving equipment. Take precautionary measures against static discharge. Use only outdoors or in a well-ventilated area. Use only non-sparking tools.
Hygiene measures: Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities
Technical measures: Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof electrical equipment.
Storage conditions: Keep container tightly closed. Store locked up. Keep in a cool place.
Incompatible materials: Strong oxidizing agents.
Storage area: Store in a well-ventilated place. Store away from heat.

7.3. Specific end use(s)
No additional information available

SECTION 8: Exposure controls/personal protection
8.1. Control parameters

<table>
<thead>
<tr>
<th>Compound</th>
<th>Belgium Limit value (mg/m³)</th>
<th>Belgium Limit value (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Ethylhexanoic acid</td>
<td>5 mg/m³ (aerosol and vapor)</td>
<td>533 mg/m³</td>
</tr>
<tr>
<td>2-Ethylhexanoic acid</td>
<td>5 mg/m³ (inhalable fraction and vapor)</td>
<td></td>
</tr>
<tr>
<td>2-Ethylhexanoic acid</td>
<td>4 mg/m³</td>
<td></td>
</tr>
<tr>
<td>2-Ethylhexanoic acid</td>
<td>12 mg/m³ (calculated)</td>
<td></td>
</tr>
<tr>
<td>2-Ethylhexanoic acid</td>
<td>5 mg/m³ (inhalable fraction, aerosol and vapor)</td>
<td></td>
</tr>
</tbody>
</table>

Print date: 10/04/2019 EN (English) SDS ID: CXBI040
8.2. Exposure controls

Appropriate engineering controls:
Provide local exhaust or general room ventilation.

Personal protective equipment:
Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection:
Neoprene or nitrile rubber gloves

Eye protection:
Chemical goggles. Contact lenses should not be worn

Skin and body protection:
Wear suitable protective clothing

Respiratory protection:
BISMUTH 2-ETHYLHEXANOATE, 80-85% in mineral spirits
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Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (teal cartridge) respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid</td>
</tr>
<tr>
<td>Appearance</td>
<td>Liquid.</td>
</tr>
<tr>
<td>Molecular mass</td>
<td>638.61 g/mol</td>
</tr>
<tr>
<td>Colour</td>
<td>Yellow-amber.</td>
</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>Refractive index</td>
<td>No additional information available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative evaporation rate (butylacetate=1)</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting point</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Boiling point</td>
<td>&gt; 150 °C - mineral spirits</td>
</tr>
<tr>
<td>Flash point</td>
<td>49 °C</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Flammable liquid and vapour.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>2 mm Hg @ 20°C - mineral spirits</td>
</tr>
<tr>
<td>Relative vapour density at 20 °C</td>
<td>No data available</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.26</td>
</tr>
<tr>
<td>% Volatiles</td>
<td>&lt; 20 %</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble in water.</td>
</tr>
<tr>
<td>Log Pow</td>
<td>No data available</td>
</tr>
<tr>
<td>Log Kow</td>
<td>No data available</td>
</tr>
<tr>
<td>Viscosity, kinematic</td>
<td>200 - 400 cSt</td>
</tr>
<tr>
<td>Viscosity, dynamic</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>No data available</td>
</tr>
<tr>
<td>Explosive limits</td>
<td>1 - 6 vol % (lower; upper: mineral spirits)</td>
</tr>
</tbody>
</table>

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Heat. Open flame. Sparks.

10.5. Incompatible materials

Strong oxidizing agents.

10.6. Hazardous decomposition products


SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Not classified

<table>
<thead>
<tr>
<th>Test</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>6470 mg/kg</td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
<td>6470 mg/kg bodyweight</td>
</tr>
</tbody>
</table>
BISMUTH 2-ETHYLHEXANOATE, 80-85% in mineral spirits

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**2-Ethylhexanoic acid (149-57-5)**

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 oral rat</td>
<td>1600 mg/kg</td>
</tr>
<tr>
<td>LD50 dermal rabbit</td>
<td>1140 mg/kg</td>
</tr>
<tr>
<td>ATE CLP (oral)</td>
<td>3000 mg/kg bodyweight</td>
</tr>
</tbody>
</table>

Skin corrosion/irritation: Not classified
Serious eye damage/irritation: Not classified
Respiratory or skin sensitisation: Not classified
Germ cell mutagenicity: May cause genetic defects.
Carcinogenicity: May cause cancer.
Reproductive toxicity: Suspected of damaging fertility or the unborn child.
STOT-single exposure: Not classified
STOT-repeated exposure: Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard: Not classified
Symptoms/effects after inhalation: May cause respiratory irritation.
Symptoms/effects after skin contact: Causes skin irritation.
Symptoms/effects after eye contact: Causes serious eye irritation.
Symptoms/effects after ingestion: May be harmful if swallowed.
Reason for classification: Expert judgment

**SECTION 12: Ecological information**

12.1. Toxicity
Acute aquatic toxicity: Not classified
Chronic aquatic toxicity: Not classified

2-Ethylhexanoic acid (149-57-5)

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LC50 fish 1</td>
<td>70 mg/l (Exposure time: 96 h - Species: Pimephales promelas)</td>
</tr>
<tr>
<td>EC50 Daphnia 1</td>
<td>85.4 mg/l (Exposure time: 48 h - Species: Daphnia magna)</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
No additional information available

12.3. Bioaccumulative potential
2-Ethylhexanoic acid (149-57-5)
Log Pow: 2.7

12.4. Mobility in soil
No additional information available

12.5. Results of PBT and vPvB assessment
No additional information available

12.6. Other adverse effects
Other adverse effects: This substance may be hazardous to the environment.

**SECTION 13: Disposal considerations**

13.1. Waste treatment methods
Sewage disposal recommendations: Do not dispose of waste into sewer.
Product/Packaging disposal recommendations: Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.
Ecology - waste materials: Avoid release to the environment.

**SECTION 14: Transport information**

14.1. UN number
In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

<table>
<thead>
<tr>
<th></th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN-No. (ADR)</td>
<td>1993</td>
</tr>
<tr>
<td>UN-No. (IMDG)</td>
<td>1993</td>
</tr>
<tr>
<td>UN-No. (IATA)</td>
<td>1993</td>
</tr>
<tr>
<td>UN-No. (ADN)</td>
<td>1993</td>
</tr>
<tr>
<td>UN-No. (RID)</td>
<td>1993</td>
</tr>
</tbody>
</table>
## 14.2. UN proper shipping name

| Proper Shipping Name (ADR) | FLAMMABLE LIQUID, N.O.S. |
| Proper Shipping Name (IMDG) | FLAMMABLE LIQUID, N.O.S. |
| Proper Shipping Name (IATA) | Flammable liquid, n.o.s. |
| Proper Shipping Name (ADN) | FLAMMABLE LIQUID, N.O.S. |
| Proper Shipping Name (RID) | FLAMMABLE LIQUID, N.O.S. |

| Transport document description (ADR) | UN 1993 FLAMMABLE LIQUID, N.O.S. (BISMUTH 2-ETHYLHEXANOATE, 80-85% in mineral spirits), 3, III, (D/E) |
| Transport document description (IMDG) | UN 1993 FLAMMABLE LIQUID, N.O.S. (BISMUTH 2-ETHYLHEXANOATE, 80-85% in mineral spirits), 3, III |
| Transport document description (IATA) | UN 1993 Flammable liquid, n.o.s. (BISMUTH 2-ETHYLHEXANOATE, 80-85% in mineral spirits), 3, III |
| Transport document description (ADN) | UN 1993 FLAMMABLE LIQUID, N.O.S. (BISMUTH 2-ETHYLHEXANOATE, 80-85% in mineral spirits), 3, III |
| Transport document description (RID) | UN 1993 FLAMMABLE LIQUID, N.O.S. (BISMUTH 2-ETHYLHEXANOATE, 80-85% in mineral spirits), 3, III |

## 14.3. Transport hazard class(es)

### ADR
- Transport hazard class(es) (ADR): 3
- Danger labels (ADR): 3

| Transport document description (ADR) | UN 1993 FLAMMABLE LIQUID, N.O.S. (BISMUTH 2-ETHYLHEXANOATE, 80-85% in mineral spirits), 3, III, (D/E) |

### IMDG
- Transport hazard class(es) (IMDG): 3
- Danger labels (IMDG): 3

| Transport document description (IMDG) | UN 1993 FLAMMABLE LIQUID, N.O.S. (BISMUTH 2-ETHYLHEXANOATE, 80-85% in mineral spirits), 3, III |

### IATA
- Transport hazard class(es) (IATA): 3
- Hazard labels (IATA): 3

| Transport document description (IATA) | UN 1993 Flammable liquid, n.o.s. (BISMUTH 2-ETHYLHEXANOATE, 80-85% in mineral spirits), 3, III |

### ADN
- Transport hazard class(es) (ADN): 3
- Danger labels (ADN): 3

| Transport document description (ADN) | UN 1993 FLAMMABLE LIQUID, N.O.S. (BISMUTH 2-ETHYLHEXANOATE, 80-85% in mineral spirits), 3, III |

### RID
- Transport hazard class(es) (RID): 3
- Danger labels (RID): 3

| Transport document description (RID) | UN 1993 FLAMMABLE LIQUID, N.O.S. (BISMUTH 2-ETHYLHEXANOATE, 80-85% in mineral spirits), 3, III |
### 14.4. Packing group

<table>
<thead>
<tr>
<th>Packing group (ADR)</th>
<th>: III</th>
</tr>
</thead>
<tbody>
<tr>
<td>Packing group (IMDG)</td>
<td>: III</td>
</tr>
<tr>
<td>Packing group (IATA)</td>
<td>: III</td>
</tr>
<tr>
<td>Packing group (ADN)</td>
<td>: III</td>
</tr>
<tr>
<td>Packing group (RID)</td>
<td>: III</td>
</tr>
</tbody>
</table>

### 14.5. Environmental hazards

<table>
<thead>
<tr>
<th>Dangerous for the environment</th>
<th>: No</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marine pollutant</td>
<td>: No</td>
</tr>
<tr>
<td>Other information</td>
<td>: No supplementary information available</td>
</tr>
</tbody>
</table>

### 14.6. Special precautions for user

#### - Overland transport

- **Classification code (ADR):** F1
- **Special provisions (ADR):** 274, 601, 640E
- **Limited quantities (ADR):** 5l
- **Excepted quantities (ADR):** E1
- **Packing instructions (ADR):** P001, IBC03, LP01, R001
- **Mixed packing provisions (ADR):** MP19
- **Portable tank and bulk container instructions (ADR):** T4
- **Special provisions for carriage - Packages (ADR):** V12
- **Special provisions for carriage - Operation (ADR):** S2
- **Hazard identification number (Kemler No.):** 30
- **Orange plates:** 30/1993
- **Tunnel restriction code (ADR):** D/E

#### - Transport by sea

- **Special provisions (IMDG):** 223, 274, 955
- **Limited quantities (IMDG):** 5 L
- **Excepted quantities (IMDG):** E1
- **Packing instructions (IMDG):** P001, LP01
- **IBC packing instructions (IMDG):** IBC03
- **Tank instructions (IMDG):** T4
- **Tank special provisions (IMDG):** TP1, TP29
- **EmS-No. (Fire):** F-E
- **EmS-No. (Spillage):** S-E
- **Stowage category (IMDG):** A

#### - Air transport

- **PCA Excepted quantities (IATA):** E1
- **PCA Limited quantities (IATA):** Y344
- **PCA limited quantity max net quantity (IATA):** 10L
- **PCA packing instructions (IATA):** 355
BISMUTH 2-ETHYLHEXANOATE, 80-85% in mineral spirits
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PCA max net quantity (IATA) : 60L
CAO packing instructions (IATA) : 366
CAO max net quantity (IATA) : 220L
Special provisions (IATA) : A3
ERG code (IATA) : 3L

- Inland waterway transport
  Classification code (ADN) : F1
  Special provisions (ADN) : 274, 601, 640E
  Limited quantities (ADN) : 5 L
  Exempted quantities (ADN) : E1
  Carriage permitted (ADN) : T
  Equipment required (ADN) : PP, EX, A
  Ventilation (ADN) : VE01
  Number of blue cones/lights (ADN) : 0

- Rail transport
  Classification code (RID) : F1
  Special provisions (RID) : 274, 601, 640E
  Limited quantities (RID) : 5L
  Exempted quantities (RID) : E1
  Packing instructions (RID) : P001, IBC03, LP01, R001
  Mixed packing provisions (RID) : MP19
  Portable tank and bulk container instructions (RID) : T4
  Portable tank and bulk container special provisions (RID) : TP1, TP29
  Tank codes for RID tanks (RID) : LGFB
  Transport category (RID) : 3
  Special provisions for carriage – Packages (RID) : W12
  Colis express (express parcels) (RID) : CE4
  Hazard identification number (RID) : 30

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code
Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations
Contains no REACH substances with Annex XVII restrictions
Contains no substance on the REACH candidate list
Contains no REACH Annex XIV substances
Contains no REACH Annex XIV substances

% Volatiles : < 20 %

15.1.2. National regulations

Germany
Reference to AwSV : Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV, Annex 1)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands
SZW-lijst van kankerverwekkende stoffen : Bismuth 2-ethylhexanoate, Mineral spirits are listed
BISMUTH 2-ETHYLHEXANOATE, 80-85% in mineral spirits
Safety Data Sheet

Zwijis van mutagene stoffen: Bismuth 2-ethylhexanoate, Mineral spirits are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling: 2-Ethylhexanoic acid is listed

 Denmark
Class for fire hazard: Class II-1
Store unit: 5 liter
Classification remarks: R10 <H226;H340;H350;H361;H372>; Emergency management guidelines for the storage of flammable liquids must be followed
Danish National Regulations: Young people below the age of 18 years are not allowed to use the product
Pregnant/breastfeeding women working with the product must not be in direct contact with the product
The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment
No additional information available

SECTION 16: Other information

Abbreviations and acronyms:
Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemical Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor

Other information: Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:

| Asp. Tox. 1 | Aspiration hazard, Category 1 |
| Carc. 1B | Carcinogenicity, Category 1B |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| Muta. 1B | Germ cell mutagenicity, Category 1B |
| Repr. 2 | Reproductive toxicity, Category 2 |
| Repr. 2 | Reproductive toxicity, Category 2 |
| STOT RE 1 | Specific target organ toxicity — Repeated exposure, Category 1 |
| H226 | Flammable liquid and vapour. |
| H304 | May be fatal if swallowed and enters airways. |
| H340 | May cause genetic defects. |
| H350 | May cause cancer. |
| H361 | Suspected of damaging fertility or the unborn child. |
| H361d | Suspected of damaging the unborn child. |
| H372 | Causes damage to organs through prolonged or repeated exposure. |

SDS EU (REACH Annex II) - Custom
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