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

Date issued 19.02.2014

1.1. Product identifier

Product name  n-paraffin C10-C13
Chemical name  Alkanes, C10-13
Synonyms  Liquid petroleum paraffin, fraction C10-C13
REACH Reg. No.  01-2119475608-26-0000
CAS no.  93924-07-3
Article no.  19200000

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


1.3. Details of the supplier of the safety data sheet

Manufacturer
Company name  Fred Holmberg & Co AB
Office address  Geijersgatan 8
Postal address  Box 60056
Postcode  S-216 10
City  Limhamn
Country  Sweden
Tel  +46 (0)40 15 79 20
Fax  +46 (0)40 16 22 95
E-mail  info@holmberg.se
Website  http://www.holmberg.se/en/

1.4. Emergency telephone number

Emergency telephone  112 (Europe)

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to  R66
67/548/EEC or 1999/45/EC  Xn; R65
Classification according to  Asp. tox 1; H304;
Regulation (EC) No 1272/2008  ; EUH 066;
[CLP/GHS]

2.2. Label elements

Hazard Pictograms (CLP)

Signal word  Danger
Hazard statements  H304 May be fatal if swallowed and enters airways.
EUH 066 Repeated exposure may cause skin dryness or cracking.
Precautionary statements

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P331 Do NOT induce vomiting.
P405 Store locked up.

2.3. Other hazards

Other hazards Not known.

SECTION 3: Composition/information on ingredients

3.1. Substances

<table>
<thead>
<tr>
<th>Substance</th>
<th>Identification</th>
<th>Classification</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-paraffin C10-C13</td>
<td>CAS no.: 93924-07-3</td>
<td>R66</td>
<td>100 %</td>
</tr>
<tr>
<td></td>
<td>EC no.: 300-199-7</td>
<td>Xn; R65</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Registration number: 01-2119562696-25-0000</td>
<td>Asp. tox 1; H304; EUH 066;</td>
<td></td>
</tr>
</tbody>
</table>

Column headings

CAS no. = Chemical Abstracts Service; EU (Einecs or Elincs number) = European inventory of Existing Commercial Chemical Substances; Ingredient name = Name as specified in the substance list (substances that are not included in the substance list must be translated, if possible). Contents given in; %, %wt/wt, %vol/wt, %vol/vol, mg/m3, ppb, ppm, weight%, vol%

HH/CF/HE

T+ = Very toxic, T = Toxic, C = Corrosive, Xn = Harmful, Xi = Irritating, E = Explosive, O = Oxidizing, F+ = Extremely flammable, F = Very flammable, N = Environmental hazard

Description of the mixture Aromatic hydrocarbons max. 0,3 vol. %.

SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation Move the exposed person to fresh air at once. Place unconscious person on the side in the recovery position and ensure breathing. If respiratory problems, artificial respiration/oxygen. Get medical attention if any discomfort continues.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing.

Eye contact Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention if any discomfort continues.

Ingestion DO NOT induce vomiting if swallowed chemical is dissolved in petroleum-based material. Danger of aspiration and development of chemical pneumonia. Get medical attention. Rinse mouth with water.

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

Information for health personnel Treat Symptomatically. Do not give victim anything to drink if he is unconscious.

4.3. Indication of any immediate medical attention and special treatment needed

Specific details on antidotes No recommendation given.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Improper extinguishing media Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards Solvent vapours may form explosive mixtures with air. Vapours are heavier than air and may spread near ground to sources of ignition.

Hazardous combustion products Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).
5.3. Advice for firefighters

Fire fighting procedures

No specific fire fighting procedure given.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal protection measures

Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Ventilate well. Stop leak if possible without risk. Avoid contact with skin and eyes. Do not breathe vapour.

6.2. Environmental precautions

Environmental precautionary measures

Avoid discharge into drains, water courses or onto the ground. Contain spillages with sand, earth or any suitable adsorbent material. Contact local authorities in case of spillage to drain/aquatic environment.

6.3. Methods and material for containment and cleaning up

Cleaning method

Absorb spillage with suitable absorbent material.

6.4. Reference to other sections

Other instructions

No recommendation given.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Handling

Keep away from heat, sparks and open flame. Take precautionary measures against static discharges. Mechanical ventilation may be required.

Protective Safety Measures

Advice on general occupational hygiene

Provide easy access to water supply and eye wash facilities.

7.2. Conditions for safe storage, including any incompatibilities

Storage

Keep away from heat, sparks and open flame. Ground container and transfer equipment to eliminate static electric sparks. Store in a cool and well-ventilated place.

7.3. Specific end use(s)

Specific use(s)

Not entered.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other Information about threshold limit values

Norske grenseverdier; FOR-2011-12-06-1358 vedlegg 1.
Dekaner og andre høyere alifatiske hydrokarboner: 8 t.: 40ppm, 275 mg/m3 (2003)

DNEL / PNEC

Method of testing

Norske grenseverdier; FOR-2011-12-06-1358 vedlegg 1.
Dekaner og andre høyere alifatiske hydrokarboner: 8 t.: 40ppm, 275 mg/m3 (2003)

Contents

Remarks: DNEL/PNEC derivation is not justified. DNEL/PNEC values are not attainable for CAS no 93924-07-3.
Limit value type: NGV, KTV
Source: Nationella hygieniska gränsvärden, AFS 2005:17

8.2. Exposure controls

Occupational exposure limits

Provide adequate ventilation. Observe Occupational Exposure Limits and minimise the risk of inhalation of vapours. Protective gloves and goggles are recommended. Provide eyewash, quick drench.

Safety signs

[Image of safety signs]
Respiratory protection
Respiratory protection must be used if air contamination exceeds acceptable level. Use respiratory equipment with gas filter, type A2.

Hand protection
Hand protection
Use protective gloves. Chemical resistant gloves required for prolonged or repeated contact. Gloves of nitrile rubber, PVA or Viton are recommended.

Eye / face protection
Eye protection
Use safety goggles or face shield in case of splash risk.

Skin protection
Skin protection (except hands)
Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene / Environmental
Specific hygiene measures
Wash hands after contact.

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>Fluid</td>
</tr>
<tr>
<td>Colour</td>
<td>Colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>Slight odour</td>
</tr>
<tr>
<td>Comments, pH (as supplied)</td>
<td>Not relevant</td>
</tr>
<tr>
<td>Melting point/melting range</td>
<td>Value: &lt; -10 °C</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>Value: 175-260 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>Value: 75 °C</td>
</tr>
<tr>
<td>Explosion limit</td>
<td>Value: 1-8 %</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>Value: &lt; 1 kPa</td>
</tr>
<tr>
<td>Test temperature:</td>
<td>20 °C</td>
</tr>
<tr>
<td>Specific gravity</td>
<td>Value: 730-780 kg/m3</td>
</tr>
<tr>
<td>Test temperature:</td>
<td>20 °C</td>
</tr>
<tr>
<td>Solubility in fat</td>
<td>Data lacking</td>
</tr>
<tr>
<td>Partition coefficient: n-octanol/water</td>
<td>Value: 7.2</td>
</tr>
<tr>
<td>Spontaneous combustibility</td>
<td>Value: 103 °C</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Value: 1.9 cSt</td>
</tr>
<tr>
<td>Test temperature:</td>
<td>20 °C</td>
</tr>
</tbody>
</table>

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity
Reactivity
Heating may cause a fire.

10.2. Chemical stability
Stability
Stable under the prescribed storage conditions.

10.3. Possibility of hazardous reactions
Possibility of hazardous reactions
Not known.

10.4. Conditions to avoid
Conditions to avoid
Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials
Materials to avoid
Avoid contact with oxidising agents (e.g. nitric acid, peroxides and chromates). Strong acids.

10.6. Hazardous decomposition products
Hazardous decomposition products
Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).
SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological Information:
Other toxicological data
- Acute Toxicity (Oral LD50): mg/kg (oral rat) > 2000 (OECD 401)
- Acute Toxicity (Inhalation LC50): mg/l (vapours) (4h) (rat) >4000 (OECD 403)
- Acute Toxicity (Dermal LD50): mg/kg Rabbit > 2000 (OECD 402)

Potential acute effects
- Inhalation: In high concentrations, vapours are narcotic and may cause headache, fatigue, dizziness and nausea. Gas or vapour in high concentrations may irritate respiratory system.
- Skin contact: Prolonged or frequent contact may cause redness, itching, eczema and skin cracking. Defats the skin.
- Eye contact: May irritate and cause redness and pain.
- Ingestion: Aspiration hazard: Pneumonia may be the result if vomited material containing solvents reaches the lungs. Ingestion of large amounts may cause unconsciousness. However, ingestion may cause nausea, headache, dizziness and intoxication. Ingestion may cause irritation of the gastrointestinal tract, vomiting and diarrhoea.

Delayed effects / repeated exposure
- Sensitisation: Not known.
- Chronic effects: Not known.

Carcinogenic, Mutagenic or Reprotoxic
- Carcinogenicity: Not known.
- Mutagenicity: Not known.
- Teratogenic properties: Not known.
- Reproductive toxicity: Not known.

SECTION 12: Ecological information

12.1. Toxicity
- Acute aquatic, fish: Value: 1000 mg/l
  Method of testing: LC50
  Duration: 96h
- Acute aquatic, Daphnia: Value: 1000 mg/l
  Method of testing: EC50
  Duration: 48h

12.2. Persistence and degradability
- Degradation half life: Readily biodegradable (OECD 310D).

12.3. Bioaccumulative potential
- Bioaccumulative potential: Data lacking.
- Bioconcentration factor (BCF): Value: 2.16
- Comments to bioaccumulation: Log Pow: 7.2

12.4. Mobility in soil
- Mobility: The product is insoluble in water and will spread on the water surface.

12.5. Results of PBT and vPvB assessment
- PBT assessment results: This substance is not classified as PBT or vPvB.

12.6. Other adverse effects
- Other adverse effects / Remarks: None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
- Specify the appropriate methods of: Confirm disposal procedures with environmental engineer and local regulations.
disposal

Absorb in vermiculite or dry sand and dispose of at a licenced hazardous waste collection point. Liquid components can be disposed of by incineration.

Product classified as hazardous waste

Yes

Packaging classified as hazardous waste

Yes

EWC waste code

EWC: 070104 other organicsolvents, washing liquids and mother liquors

SECTION 14: Transport information

14.1. UN number

Comments

Not dangerous goods in the meaning of ADR/RID, ADNR, IMDG-Code, ICAO/IATA-DGR

14.2. UN proper shipping name

14.3. Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

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

Other Label Information


Legislation and regulations

Dangerous Substance Directive 67/548/EEC.

15.2. Chemical safety assessment

SECTION 16: Other information

Hazard symbol

R-phrases

R65 Harmful: may cause lung damage if swallowed.
R66 Repeated exposure may cause skin dryness or cracking.

S-phrases

S2 Keep out of the reach of children.
S7 Keep container tightly closed.
S23 Do not breathe gas/fumes/vapour/spray (appropriate wording to be specified by the manufacturer).
S24 Avoid contact with skin. S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Asp. tox 1; H304;
| List of relevant R-phrases (under headings 2 and 3). | R65 Harmful: may cause lung damage if swallowed. |
| List of relevant H-phrases (Section 2 and 3). | EUH 066 Repeated exposure may cause skin dryness or cracking. |
| Responsible for safety data sheet | Fred Holmberg & Co AB |
|   | R66 Repeated exposure may cause skin dryness or cracking. |
|   | H304 May be fatal if swallowed and enters airways. |