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

1.1. Product identifier
Innotech Universalöl für die Lebensmittelind. / Kettenschmierm.190

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture
- Lubricants, greases, release products
- Reserved for industrial and professional use.

1.3. Details of the supplier of the safety data sheet
Company name: innotech-Vertriebs GmbH
Street: Junkerstrasse 16
Place: D-93055 Regensburg
Telephone: +49 (0) 941 70 08 78
Telefax: +49 (0) 941 70 46 60
Contact person: Mr. Massen
Internet: www.innotech-r.de
Responsible Department: sales department

1.4. Emergency telephone number
+49 (0) 941 70 08 78
Only available during office hours.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Regulation (EC) No. 1272/2008
Hazard categories:
- Aerosol: Aerosol 1
Hazard Statements:
- Extremely flammable aerosol.
- Pressurised container: May burst if heated.

2.2. Label elements
Regulation (EC) No. 1272/2008
Signal word: Danger

Pictograms:

Hazard statements
H222 Extremely flammable aerosol.
H29 Pressurised container: May burst if heated.

Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 Do not spray on an open flame or other ignition source.
P251 Do not pierce or burn, even after use.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

2.3. Other hazards
In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.
SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
<th>EC No</th>
<th>Index No</th>
<th>REACH No</th>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>8042-47-5</td>
<td>White mineral oil</td>
<td>60 - &lt; 65 %</td>
<td></td>
<td>232-455-8</td>
<td>01-2119487078-27</td>
<td></td>
</tr>
<tr>
<td>106-97-8</td>
<td>Butane</td>
<td>25 - &lt; 30 %</td>
<td></td>
<td>203-448-7</td>
<td>01-2119474691-32</td>
<td></td>
</tr>
<tr>
<td>74-98-6</td>
<td>Propane</td>
<td>12.5 - &lt; 15 %</td>
<td></td>
<td>200-827-9</td>
<td>01-2119486944-21</td>
<td></td>
</tr>
</tbody>
</table>

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

**General information**
In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

**After inhalation**
Provide fresh air. In case of respiratory tract irritation, consult a physician.

**After contact with skin**
After contact with skin, wash immediately with plenty of water and soap. Take off contaminated clothing and wash it before reuse.

**After contact with eyes**
Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

**After ingestion**
Observe risk of aspiration if vomiting occurs. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

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

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

SECTION 5: Firefighting measures

5.1. Extinguishing media

**Suitable extinguishing media**
Carbon dioxide (CO2), Foam, Extinguishing powder.

**Unsuitable extinguishing media**
Water.
5.2. Special hazards arising from the substance or mixture
Flammable. Vapours can form explosive mixtures with air.

5.3. Advice for firefighters
In case of fire: Wear self-contained breathing apparatus.

Additional information
Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Remove all sources of ignition.

6.2. Environmental precautions
Do not allow uncontrolled discharge of product into the environment. Danger of explosion

6.3. Methods and material for containment and cleaning up
Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections
Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Advice on safe handling
Do not pierce or burn, even after use.

Advice on protection against fire and explosion
Do not spray on naked flames or any incandescent material. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

Further information on handling
Heating causes rise in pressure with risk of bursting.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Hints on joint storage
Do not store together with: Oxidising agent. Pyrophoric or self-heating substances.

7.3. Specific end use(s)
Lubricants, greases, release products

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Exposure limits (EH40)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>106-97-8</td>
<td>Butane</td>
<td>600</td>
<td>1450</td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>750</td>
<td>1810</td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

Protective and hygiene measures
Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink.

Eye/face protection
Wear eye protection/face protection. Suitable eye protection: Eye glasses with side protection DIN EN 166

Hand protection
Hand protection is not required. Wash hands thoroughly after handling.

Skin protection
Wear anti-static footwear and clothing

Respiratory protection
In case of inadequate ventilation wear respiratory protection. Suitable respiratory protection apparatus:
Combination filtering device (EN 14387) A-P2

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>Colour</td>
<td>colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>odourless</td>
</tr>
<tr>
<td>pH-Value</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

Changes in the physical state

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Melting point</td>
<td>not applicable</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>&lt; -20 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>&lt; -20 °C</td>
</tr>
<tr>
<td>Sustaining combustion</td>
<td>No data available</td>
</tr>
</tbody>
</table>

Flammability

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>not applicable</td>
</tr>
<tr>
<td>Gas</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

Explosive properties

In use may form flammable/explosive vapour-air mixture.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lower explosion limits</td>
<td>3 vol. %</td>
</tr>
<tr>
<td>Upper explosion limits</td>
<td>15 vol. %</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>&gt;= 325 &lt;= 355 °C</td>
</tr>
</tbody>
</table>

Auto-ignition temperature

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solid</td>
<td>not applicable</td>
</tr>
<tr>
<td>Gas</td>
<td>not applicable</td>
</tr>
</tbody>
</table>

Decomposition temperature:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>not determined</td>
</tr>
</tbody>
</table>

Oxidizing properties

Not oxidising.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>not determined</td>
</tr>
</tbody>
</table>
Density (at 20 °C): 0,71 g/cm³
Water solubility: practically insoluble
(at 20 °C)
Solubility in other solvents
not determined
Partition coefficient: not determined
Viscosity / dynamic: not determined
Vapour density: not determined
Evaporation rate: not determined

9.2. Other information
Solid content: not determined

SECTION 10: Stability and reactivity

10.1. Reactivity
Flammable, Ignition hazard.

10.2. Chemical stability
The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions
No known hazardous reactions.

10.4. Conditions to avoid
Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive mixtures with air.

10.5. Incompatible materials
No information available.

10.6. Hazardous decomposition products
No known hazardous decomposition products.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity
Based on available data, the classification criteria are not met.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>8042-47-5</td>
<td>White mineral oil</td>
<td>oral</td>
<td>LD50 mg/kg</td>
<td>&gt; 5000</td>
<td>Rat</td>
<td>OECD Guideline 401</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50 mg/kg</td>
<td>&gt; 2000</td>
<td>Rabbit</td>
<td>OECD Guideline 402</td>
</tr>
</tbody>
</table>

Irritation and corrosivity
Based on available data, the classification criteria are not met.

Sensitising effects
Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction
Based on available data, the classification criteria are not met.
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.

Aspiration hazard
Based on available data, the classification criteria are not met.

Additional information on tests
The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity
The product is not: Ecotoxic.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Dose</th>
<th>[h]</th>
<th>[d]</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Acute fish toxicity</td>
<td>LC50</td>
<td>96 h</td>
<td></td>
<td>Oncorhynchus mykiss</td>
<td>OECD Guideline 203</td>
<td></td>
</tr>
<tr>
<td>8042-47-5</td>
<td>White mineral oil</td>
<td>mg/l &gt; 100</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>106-97-8</td>
<td>Butane</td>
<td>LC50</td>
<td>49,9</td>
<td>96 h</td>
<td>Fish, no other information</td>
<td>United States Environmental Protection A</td>
<td>The Ecosar class program has been developed</td>
</tr>
<tr>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>96 h</td>
<td></td>
<td>Algae</td>
<td>USEPA OPPT Risk Assessment Division (200)</td>
<td>Calculation using ECOSAR Program v1.00.</td>
</tr>
<tr>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>48 h</td>
<td></td>
<td>Daphnia sp.</td>
<td>USEPA OPPT Risk Assessment Division (200)</td>
<td>Calculation using ECOSAR Program v1.00.</td>
</tr>
<tr>
<td>74-98-6</td>
<td>Propane</td>
<td>LC50</td>
<td>49,9</td>
<td>96 h</td>
<td>Fish, no other information</td>
<td>United States Environmental Protection A</td>
<td>The Ecosar class program has been developed</td>
</tr>
<tr>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50</td>
<td>96 h</td>
<td></td>
<td>Algae</td>
<td>USEPA OPPT Risk Assessment Division (200)</td>
<td>Calculation using ECOSAR Program v1.00.</td>
</tr>
<tr>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50</td>
<td>48 h</td>
<td></td>
<td>Daphnia sp.</td>
<td>USEPA OPPT Risk Assessment Division (200)</td>
<td>Calculation using ECOSAR Program v1.00.</td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability
The product has not been tested.

12.3. Bioaccumulative potential
The product has not been tested.

Partition coefficient n-octanol/water

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Log Pow</th>
</tr>
</thead>
<tbody>
<tr>
<td>106-97-8</td>
<td>Butane</td>
<td>1.09</td>
</tr>
<tr>
<td>74-98-6</td>
<td>Propane</td>
<td>1.09</td>
</tr>
</tbody>
</table>

12.4. Mobility in soil
The product has not been tested.

12.5. Results of PBT and vPvB assessment
The product has not been tested.

### 12.6. Other adverse effects
No information available.

**Further information**
Avoid release to the environment.

### SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Advice on disposal**
Do not allow to enter into surface water or drains. Dispose of waste according to applicable legislation.

**Waste disposal number of waste from residues/unused products**
- 160504 WASTES NOT OTHERWISE SPECIFIED IN THE LIST; gases in pressure containers and discarded chemicals; gases in pressure containers (including halons) containing hazardous substances; hazardous waste

**Contaminated packaging**
Completely emptied packages can be recycled.

### SECTION 14: Transport information

**Land transport (ADR/RID)**

- **14.1. UN number:** UN 1950
- **14.2. UN proper shipping name:** AEROSOLS
- **14.3. Transport hazard class(es):** 2
- **14.4. Packing group:** -
- **Hazard label:** 2.1

- **Classification code:** 5F
- **Special Provisions:** 190 327 344 625
- **Limited quantity:** 1 L
- **Transport category:** 2
- **Tunnel restriction code:** D

**Other applicable information (land transport)**
- E0

**Inland waterways transport (ADN)**

- **14.1. UN number:** UN 1950
- **14.2. UN proper shipping name:** AEROSOLS
- **14.3. Transport hazard class(es):** 2
- **14.4. Packing group:** -
- **Hazard label:** 2.1

- **Classification code:** 5F
- **Special Provisions:** 190 327 344 625
- **Limited quantity:** 1 L
Other applicable information (inland waterways transport)

**E0**

### Marine transport (IMDG)

<table>
<thead>
<tr>
<th>14.1. UN number:</th>
<th>UN 1950</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2. UN proper shipping name:</td>
<td>AEROSOLS</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es):</td>
<td>2.1</td>
</tr>
<tr>
<td>14.4. Packing group:</td>
<td>-</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>2.1</td>
</tr>
</tbody>
</table>

Special Provisions: 63, 190, 277, 327, 344, 959
Limited quantity: 1000 mL
EmS: F-D, S-U

### Other applicable information (marine transport)

**E0**

### Air transport (ICAO-TI/IATA-DGR)

<table>
<thead>
<tr>
<th>14.1. UN number:</th>
<th>UN 1950</th>
</tr>
</thead>
<tbody>
<tr>
<td>14.2. UN proper shipping name:</td>
<td>AEROSOLS, flammable</td>
</tr>
<tr>
<td>14.3. Transport hazard class(es):</td>
<td>2.1</td>
</tr>
<tr>
<td>14.4. Packing group:</td>
<td>-</td>
</tr>
<tr>
<td>Hazard label:</td>
<td>2.1</td>
</tr>
</tbody>
</table>

Special Provisions: A145 A167 A802
Limited quantity Passenger: 30 kg G

IATA-packing instructions - Passenger: 203
IATA-max. quantity - Passenger: 75 kg
IATA-packing instructions - Cargo: 203
IATA-max. quantity - Cargo: 150 kg

### Other applicable information (air transport)

**E0**

Y203

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

### 14.6. Special precautions for user

Warning: Flammable gases.

### 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

EU regulatory information

2010/75/EU (VOC): 40 % (284 g/l)
40% (284 g/l)

Information according to 2012/18/EU (SEVESO III):

P3a FLAMMABLE AEROSOLS

Additional information


National regulatory information

Employment restrictions:

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

Water contaminating class (D):

1 - slightly water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 7, 9, 15, 16.

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

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

For abbreviations and acronyms, see table at http://abbrev.esdscom.eu

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aerosol 1; H222-H229</td>
<td>On basis of test data</td>
</tr>
</tbody>
</table>

Relevant H and EUH statements (number and full text)

H220 Extremely flammable gas.

H222 Extremely flammable aerosol.

H229 Pressurised container: May burst if heated.

H280 Contains gas under pressure; may explode if heated.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)