



ACCORDING TO EC-REGULATIONS 1907/2006 (REACH), 1272/2008 (CLP) & 2015/830

1. SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product Name Heptane
CAS No. 142-82-5
EC No. 205-563-8

REACH Registration No.

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

Identified Use(s) PC21 Laboratory chemicals
Uses Advised Against Not known.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Company Identification Rathburn Chemicals Ltd
Address of Manufacturer 6 Caberston Road
Walkerburn
Peeblesshire
Scotland

Postal code EH43 6AU
Telephone: 00 (44) (0) 1 896 870 651
E-mail sales@rathburn.co.uk
Office hours 09.00-17.00

Supplier

Company Identification Rathburn Chemicals Ltd
Address of Supplier 6 Caberston Road
Walkerburn
Peeblesshire
Scotland

Postal code EH43 6AU
Telephone: 00 (44) (0) 1 896 870 651
E-mail sales@rathburn.co.uk
Office hours 09.00-17.00

1.4 Emergency telephone number

Emergency Phone No. 00 (44) (0) 1 896 870 651 or 07807 520501
Contact Roddy Stoddart

2. SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Regulation (EC) No. 1272/2008 (CLP) Aquatic Acute 1 : Very toxic to aquatic life.
Aquatic Chronic 1 : Very toxic to aquatic life with long lasting effects.
Asp. Tox. 1 : May be fatal if swallowed and enters airways.
Flam. Liq. 2 : Highly flammable liquid and vapour.
Skin Irrit. 2 : Causes skin irritation.
STOT SE 3 : May cause drowsiness or dizziness.

2.2 Label elements

Product Name According to Regulation (EC) No. 1272/2008 (CLP)
Heptane



Hazard Pictogram(s)



GHS02



GHS08



GHS07



GHS09

Signal Word(s)

Danger

Hazard Statement(s)

H225: Highly flammable liquid and vapour.
 H304: May be fatal if swallowed and enters airways.
 H315: Causes skin irritation.
 H336: May cause drowsiness or dizziness.
 H400: Very toxic to aquatic life.
 H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P273: Avoid release to the environment.
 P301 + P310 + P331: IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.
 P302 + P352: IF ON SKIN: Wash with plenty of water

2.3 Other hazards

Not known.

2.4 Additional Information

For full text of H/P Statements see section 16.

3. SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

| HAZARDOUS INGREDIENT(S) | CAS No. | EC No. REACH Registration No. | %W/W Hazard | Hazard Statement(s) | Hazard Pictogram(s) |
|-------------------------|----------|-------------------------------|-------------|---|----------------------------------|
| heptane n-heptane | 142-82-5 | 205-563-8 | 100 | Flam. Liq. 2 H225 Asp. Tox. 1 H304 Skin Irrit. 2 H315 STOT SE 3 H336 Aquatic Acute 1 H400 Aquatic Chronic 1 H410 | GHS02 GHS08 GHS07 GHS09 |

3.2 Mixtures

Not applicable.

4. SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

Inhalation If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing.

Skin Contact Wash skin with water.

Eye Contact Flush eyes with water for at least 15 minutes.

Ingestion Wash out mouth with water.

4.2 Most important symptoms and effects, both acute and delayed



Causes burns.

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment (see Medical Advice on this label). Call a POISON CENTER/doctor if you feel unwell. Treat symptomatically.

5. SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing media As appropriate for surrounding fire.

Unsuitable extinguishing media Water jet spray

5.2 Special hazards arising from the substance or mixture

May decompose in a fire, giving off toxic and irritant vapours.

5.3 Advice for fire-fighters

Fire fighters should wear complete protective clothing including self-contained breathing apparatus. If it is safe to do so, containers should be removed from fire area because they are likely to rupture under fire conditions.

6. SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Ensure full personal protection (including respiratory protection) during removal of spillages.

6.2 Environmental precautions

Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

6.3 Methods and material for containment and cleaning up

Absorb spillages onto sand, earth or any suitable adsorbent material. Contain spillages with sand, earth or any suitable adsorbent material. Earth may be shovelled to contain spillage and to avoid contamination of sewers and watercourses.

6.4 Reference to other sections

See Also Section 8, 13.

7. SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Wash hands and exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed. Store locked up. Keep cool.

Storage temperature

Storage life

Stable under normal conditions.

Incompatible materials

None known.

7.3 Specific end use(s)

PC21 Laboratory chemicals

8. SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION



8.1 Control parameters

Occupational Exposure Limits

Occupational Exposure Limits

| SUBSTANCE | CAS No. | LTEL (8 hr TWA ppm) | LTEL (8 hr TWA mg/m ³) | STEL (ppm) | STEL (mg/m ³) | Note |
|-----------|---|------------------------|---------------------------------------|---------------|------------------------------|-------|
| n-Heptane | 142-82-5 | 500 | 2085 | | | |
| n-Heptane | 142-82-5 | 500 | 2 085 | | | IOELV |
| Remark | Footnote | | | | | |
| IOELV | IOELV: Indicative Occupational Exposure Limit Value | | | | | |

8.2 Exposure controls

Appropriate engineering controls Use non-sparking ventilation systems, approved explosion-proof equipment, and intrinsically safe electrical systems. Use with ventilation, local exhaust ventilation or breathing protection. A washing facility/water for eye and skin cleaning purposes should be present.

Personal protection equipment



Eye Protection

Wear eye protection with side protection (EN166).



Skin protection

Wear protective clothing and gloves: Impervious gloves (EN 374).



Respiratory protection

A suitable mask with filter type A (EN14387 or EN405) may be appropriate.

Thermal hazards None known.

Environmental Exposure Controls Spillages or uncontrolled discharges into watercourses must be alerted to the appropriate regulatory body.

9. SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

| | |
|---|---------------------|
| Appearance | Liquid. |
| | Colour : Colourless |
| Odour | specific |
| Odour threshold | Not known. |
| pH | Not known. |
| Melting point/freezing point | -90C |
| Initial boiling point and boiling range | 98C |
| Flash Point | -4 °C |
| Evaporation rate | Not known. |
| Flammability (solid, gas) | Not known. |
| Upper/lower flammability or explosive limits | Not known. |
| Vapour pressure | Not known. |
| Vapour density | Not known. |
| Density (g/ml) | 0.69g/ml |



| | |
|--|---|
| Relative density | Not known. |
| Solubility(ies) | Solubility (Water) : Insoluble in water. Solubility (Other) : Not known. |
| Partition coefficient: n-octanol/water | Not known. |
| Auto-ignition temperature | Not known. |
| Decomposition Temperature (°C) | Not known. |
| Viscosity | Not known. |
| Explosive properties | Not known. |
| Oxidising properties | Not known. |
| 9.2 Other information | Not known. |

10. SECTION 10: STABILITY AND REACTIVITY

| | |
|------------------------------------|--|
| Reactivity | None anticipated. |
| Chemical Stability | Stable under normal conditions. |
| Possibility of hazardous reactions | No hazardous reactions known if used for its intended purpose. |
| Conditions to avoid | Avoid friction, sparks, or other means of ignition. |
| Incompatible materials | Not known. |
| Hazardous decomposition product(s) | None known. |

11. SECTION 11: TOXICOLOGICAL INFORMATION

| | |
|---|--|
| 11.1 Information on toxicological effects | |
| Acute toxicity - Ingestion | Not classified. H304: May be fatal if swallowed and enters airways. |
| Acute toxicity - Skin Contact | Not classified. H315: Causes skin irritation. |
| Acute toxicity - Inhalation | Not classified. |
| Skin corrosion/irritation | Calculation method : Causes skin irritation. |
| Serious eye damage/irritation | Not classified. |
| Skin sensitization data | Not classified. |
| Respiratory sensitization data | Not classified. |
| Germ cell mutagenicity | Not classified. |
| Carcinogenicity | Not classified. |
| Reproductive toxicity | Not classified. |
| Lactation | Not classified. |
| STOT - single exposure | Calculation method : May cause drowsiness or dizziness. |
| STOT - repeated exposure | Not classified. |
| Aspiration hazard | Self classification: May be fatal if swallowed and enters airways. |
| 11.2 Other information | Not known. |

12. SECTION 12: ECOLOGICAL INFORMATION

| | |
|--|--------------------------------|
| 12.1 Toxicity | |
| Toxicity - Aquatic invertebrates | Low toxicity to invertebrates. |
| Toxicity - Fish | Low toxicity to fish. |
| Toxicity - Algae | Low toxicity to algae. |
| Toxicity - Sediment Compartment | Not classified. |
| Toxicity - Terrestrial Compartment | Not classified. |
| 12.2. Persistence and Degradation | Not known. |
| 12.3. Bioaccumulative potential | Not known. |
| 12.4. Mobility in soil | Not known. |
| 12.5. Results of PBT and vPvB assessment | Not known. |



12.6 Other adverse effects

Not known.

13. SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Dispose of contents in accordance with local, state or national legislation. Recycle only completely emptied packaging. Containers must not be punctured or destroyed by burning, even when empty. Do not allow to enter drains, sewers or watercourses. Do NOT landfill. Normal disposal is via incineration operated by an accredited disposal contractor. Send to a licensed recycler, reclaimer or incinerator. Dispose of this material and its container to hazardous or special waste collection point.

13.2 Additional Information

Disposal should be in accordance with local, state or national legislation.

14. SECTION 14: TRANSPORT INFORMATION

14.1 UN number

UN No. 1206

14.2 UN proper shipping name

UN proper shipping name HEPTANES

14.3 Transport hazard class(es)

ADR/RID Class 3
 IMDG Class 3
 IMDG EMS Not available

ICAO/IATA

Excepted Quantities E2

Passenger and Cargo Aircraft Y341

Limited Quantities Packing

Instructions

Passenger and Cargo Aircraft 1L

Limited Quantities Max net Qty

Passenger and Cargo Aircraft 353

Packing Instructions

Passenger and Cargo Aircraft 5L

Max net Qty

Cargo Aircraft Packing 364

Instructions

Cargo Aircraft Max net Qty 60L

Special Provisions Not applicable

Emergency Response 3H

Guidebook (ERG) Code

ADR Classification Code F1

ADR HIN 33

ADR Transport Category 2

Tunnel Restriction Code D/E

Emergency Action Code 3YE

Advice on Additional Personal

Protection (APP)

14.4 Packing group

Packing group II

Labels 3



| | |
|---|-----------------|
| Special Provisions | Not applicable |
| Limited Quantities | 1 L |
| Excepted Quantities | E2 |
| Mixed Packing Instructions for Packages | P001 IBC02 R001 |
| Special Packing Provisions for Packages | Not applicable |
| Mixed Packing Instructions for Packages | MP19 |
| 14.5 Environmental hazards | |
| Environmental hazards | Not known. |
| 14.6 Special precautions for user | |
| Special precautions for user | Not known. |
| 14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code | |
| Packing Instructions for Portable Tanks | T4 |
| Special Provisions for Portable Tanks | TP1 |
| Tank Code for Tanks | LGBF |
| Special Provisions for Tanks | Not applicable |
| Vehicle for Tank Carriage | FL |
| Special Provisions for Carriage - Packages | Not applicable |
| Special Provisions for Carriage - Bulk | Not applicable |
| Special Provisions for Carriage - Loading, Unloading and Handling | Not applicable |
| Special Provisions for Carriage - Operation | S2 S20 |

15. SECTION 15: REGULATORY INFORMATION

| | |
|---|------------------------------|
| 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture | |
| European Regulations Authorisations and/or Restrictions On Use | |
| Candidate List of Substances of Very High Concern for Authorisation | All chemicals are not listed |
| REACH: ANNEX XIV list of substances subject to authorisation | All chemicals are not listed |
| REACH: Annex XVII Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles | All chemicals are not listed |
| Community Rolling Action Plan (CoRAP) | Not known. |
| Regulation (EC) N° 850/2004 of the European Parliament and of the Council on persistent organic | Not listed |



pollutants

Regulation (EC) N° 2037/2000 Not listed
on substances that deplete the
ozone layer

Regulation (EU) N° 649/2012 of Not listed
the European Parliament and of
the Council concerning the export
and import of hazardous
chemicals

National regulations

Other Not known.

15.2 Chemical Safety Assessment

A REACH chemical safety assessment has not been carried out.

16. SECTION 16: OTHER INFORMATION

The following sections contain
revisions or new statements:

LEGEND

Hazard Pictogram(s)



GHS02



GHS07



GHS08



GHS09

Hazard Statement(s)

H225: Highly flammable liquid and vapour.
H304: May be fatal if swallowed and enters airways.
H315: Causes skin irritation.
H336: May cause drowsiness or dizziness.
H400: Very toxic to aquatic life.
H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statement(s)

P210: Keep away from heat, hot surfaces, sparks, open flames and
other ignition sources. No smoking.
P233: Keep container tightly closed.
P240: Ground/bond container and receiving equipment.
P241: Use explosion-proof electrical/ventilating/lighting/equipment.
P242: Use only non-sparking tools.
P243: Take precautionary measures against static discharge.
P261: Avoid breathing dust/fume/gas/mist/vapours/spray.
P264: Wash hands and exposed skin thoroughly after handling.
P271: Use only outdoors or in a well-ventilated area.
P273: Avoid release to the environment.
P280: Wear protective gloves/protective clothing/eye protection/face
protection.
P301+P310: IF SWALLOWED: Immediately call a POISON
CENTER/doctor.
P302+P352: IF ON SKIN: Wash with plenty of water.
P303+P361+P353: IF ON SKIN (or hair): Take off immediately all
contaminated clothing. Rinse skin with water/shower.
P304+P340: IF INHALED: Remove person to fresh air and keep
comfortable for breathing.



P312: Call a POISON CENTER/doctor if you feel unwell.
P321: Specific treatment (see Medical Advice on this label).
P331: Do NOT induce vomiting.
P332+P313: If skin irritation occurs: Get medical advice/attention.
P362+P364: Take off contaminated clothing and wash it before reuse.
P370+P378: In case of fire: Use water to extinguish.
P391: Collect spillage.
P403+P233: Store in a well-ventilated place. Keep container tightly closed.
P403+P235: Store in a well-ventilated place. Keep cool.
P405: Store locked up.
P501: Dispose of contents in accordance with local, state or national legislation.

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