



# SAFETY DATA SHEET SYNTON 100 REVISION 3, DATE 27 SEP 20

## 1. IDENTIFICATION

|                            |   |
|----------------------------|---|
| <b>Product Name</b>        | <b>SYNTON 100</b>   |
| <b>Other Names</b>         | Dec-1-ene, oligomers, hydrogenated; Hydrogenated polydecene |
| <b>Uses</b>                | Lubricant base-stock; Restricted to professional users.     |
| <b>Chemical Family</b>     | No Data Available   |
| <b>Chemical Formula</b>    | Unspecified   |
| <b>Chemical Name</b>       | 1-Decene, homopolymer, hydrogenated                         |
| <b>Product Description</b> | No hazardous ingredients.                                   |

### Contact Details of the Supplier of this Safety Data Sheet

| Organisation            | Location   | Telephone       |
|-------------------------|--|-----------------|
| Redox Ltd               | 2 Swettenham Road<br>Minto NSW 2566<br>Australia   | +61-2-97333000  |
| Redox Ltd               | 11 Mayo Road<br>Wiri Auckland 2104<br>New Zealand  | +64-9-2506222   |
| Redox Inc.              | 3960 Paramount Boulevard<br>Suite 107<br>Lakewood CA 90712<br>USA  | +1-424-675-3200 |
| Redox Chemicals Sdn Bhd | Level 2, No. 8, Jalan Sapir 33/7<br>Seksyen 33, Shah Alam Premier Industrial Park<br>40400 Shah Alam<br>Sengalor, Malaysia | +60-3-5614-2111 |

### Emergency Contact Details

*For emergencies only; DO NOT contact these companies for general product advice.*

| Organisation               | Location     | Telephone                                  |
|----------------------------|--------------|--|
| Poisons Information Centre | Westmead NSW | 1800-251525<br>131126                      |
| Chemcall                   | Australia    | 1800-127406<br>+64-4-9179888               |
| Chemcall                   | Malaysia     | +64-4-9179888                              |
| Chemcall                   | New Zealand  | 0800-243622<br>+64-4-9179888               |
| National Poisons Centre    | New Zealand  | 0800-764766                                |
| CHEMTREC                   | USA & Canada | 1-800-424-9300 CN723420<br>+1-703-527-3887 |

## 2. HAZARD IDENTIFICATION

**Poisons Schedule (Aust)**

Not Scheduled



**Globally Harmonised System**

**Hazard Classification** NOT hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

**Signal Word** None

**National Transport Commission (Australia)**

Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

**Dangerous Goods Classification** NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

**3. COMPOSITION/INFORMATION ON INGREDIENTS***Ingredients*

| Chemical Entity                    | Formula     | CAS Number | Proportion |
|------------------------------------|-------------|------------|------------|
| Dec-1-ene, oligomers, hydrogenated | Unspecified | 68037-01-4 | 100 %      |

**4. FIRST AID MEASURES***Description of necessary measures according to routes of exposure*

|  |   |
|--|---|
| <b>Swallowed</b>                                 | IF SWALLOWED: Rinse mouth with water. Do NOT induce vomiting. Get medical advice/attention.   |
| <b>Eye</b>                                       | IF IN EYES: Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Remove contact lenses if present and easy to do. Continue rinsing for at least 15 minutes. If eye irritation persists, get medical advice/attention. |
| <b>Skin</b>                                      | IF ON SKIN: Wash off with soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation occurs, get medical advice/attention.   |
| <b>Inhaled</b>                                   | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If respiratory symptoms persist, get medical advice/attention.   |
| <b>Advice to Doctor</b>                          | Treat symptomatically.<br>*First Aid responders should pay attention to self-protection and use the recommended protective clothing (see SECTION 8).  |
| <b>Medical Conditions Aggravated by Exposure</b> | No information available.   |

**5. FIRE FIGHTING MEASURES**

|   |   |
|---|---|
| <b>General Measures</b>                 | Fight fire with normal precautions from a reasonable distance. If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out. |
| <b>Flammability Conditions</b>          | May burn but does not ignite readily.   |
| <b>Extinguishing Media</b>              | Use dry chemical, Carbon dioxide (CO <sub>2</sub> ), alcohol-resistant foam or water spray - Do not use water jets.   |
| <b>Fire and Explosion Hazard</b>        | Containers may explode when heated.   |
| <b>Hazardous Products of Combustion</b> | Fire may produce irritating and/or toxic fumes, including Carbon monoxide, Carbon dioxide (CO <sub>2</sub> ).   |

|   |  |
|---|--|
| <b>Special Fire Fighting Instructions</b> | Contain runoff from fire control or dilution water - Runoff may pollute waterways.   |
| <b>Personal Protective Equipment</b>      | Wear positive pressure self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may provide limited protection. |
| <b>Flash Point</b>                        | 280 °C [ASTM D 92]   |
| <b>Lower Explosion Limit</b>              | No Data Available  |
| <b>Upper Explosion Limit</b>              | No Data Available  |
| <b>Auto Ignition Temperature</b>          | 310 °C   |
| <b>Hazchem Code</b>                       | No Data Available  |

## 6. ACCIDENTAL RELEASE MEASURES

|   |  |
|---|--|
| <b>General Response Procedure</b>           | Ensure adequate ventilation. ELIMINATE all ignition sources. Do not touch or walk through spilled material. Avoid breathing vapours and contact with eyes, skin and clothing.  |
| <b>Clean Up Procedures</b>                  | Pick up with sand or other non-combustible absorbent material and place into properly labelled containers for later disposal (see SECTION 13).<br>*Large spills should be collected mechanically (remove by pumping) for disposal. |
| <b>Containment</b>                          | Stop leak if safe to do so – Prevent entry into waterways, drains or confined areas. Dike far ahead of large spill for later disposal.   |
| <b>Decontamination</b>                      | Ventilate the area.  |
| <b>Environmental Precautionary Measures</b> | Do not allow contact with soil, surface or ground water. Do not flush into surface water or sanitary sewer system.   |
| <b>Evacuation Criteria</b>                  | Spill or leak area should be isolated immediately. Keep unauthorised personnel away.   |
| <b>Personal Precautionary Measures</b>      | Wear suitable protective clothing, gloves and eye/face protection (see SECTION 8).   |

## 7. HANDLING AND STORAGE

|                  |  |
|------------------|--|
| <b>Handling</b>  | Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing mist/vapours and contact with eyes, skin and clothing. Do not ingest. Wear suitable protective equipment (see SECTION 8). |
| <b>Storage</b>   | Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep container tightly closed. Keep away from heat and sources of ignition - No smoking. Keep away from foodstuffs and incompatible materials (see SECTION 10).  |
| <b>Container</b> | Keep in the original container.  |

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

|                                      |   |
|--------------------------------------|---|
| <b>General</b>                       | Contains no substances with occupational exposure limit values.   |
| <b>Exposure Limits</b>               | No Data Available   |
| <b>Biological Limits</b>             | No information available.   |
| <b>Engineering Measures</b>          | A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area.  |
| <b>Personal Protection Equipment</b> | <ul style="list-style-type: none"> <li>- Respiratory protection: No personal respiratory protective equipment normally required. Breathing apparatus needed only when aerosol or mist is formed (refer to AS/NZS 1715 &amp; 1716).</li> <li>- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Safety glasses with side-shields.</li> <li>- Hand protection: Handle with gloves. Recommended: Chemical resistant protective gloves.</li> </ul> |

- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Long sleeved clothing.

**Special Hazards Precautions**

Use only in area provided with appropriate exhaust ventilation. Do not enter confined spaces unless adequately ventilated.

**Work Hygienic Practices**

Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep working clothes separately. Remove and wash contaminated clothing before re-use.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

|   |  |
|---|--|
| <b>Physical State</b>   | Liquid   |
| <b>Appearance</b>   | Clear liquid                                     |
| <b>Odour</b>  | Characteristic                                   |
| <b>Colour</b>   | Colourless                                       |
| <b>pH</b>   | No Data Available                                |
| <b>Vapour Pressure</b>  | No Data Available                                |
| <b>Relative Vapour Density</b>  | No Data Available                                |
| <b>Boiling Point</b>  | No Data Available                                |
| <b>Melting Point</b>  | -18 °C (Pour point)                              |
| <b>Freezing Point</b>   | No Data Available                                |
| <b>Solubility</b>   | Insoluble in water - Soluble in organic solvents |
| <b>Specific Gravity</b>   | 0.845 - 0.855                                    |
| <b>Flash Point</b>  | 280 °C [ASTM D 92]                               |
| <b>Auto Ignition Temp</b>   | 310 °C   |
| <b>Evaporation Rate</b>   | No Data Available                                |
| <b>Bulk Density</b>   | No Data Available                                |
| <b>Corrosion Rate</b>   | No Data Available                                |
| <b>Decomposition Temperature</b>                                      | No Data Available                                |
| <b>Density</b>  | No Data Available                                |
| <b>Specific Heat</b>  | No Data Available                                |
| <b>Molecular Weight</b>   | No Data Available                                |
| <b>Net Propellant Weight</b>  | No Data Available                                |
| <b>Octanol Water Coefficient</b>                                      | No Data Available                                |
| <b>Particle Size</b>  | No Data Available                                |
| <b>Partition Coefficient</b>  | No Data Available                                |
| <b>Saturated Vapour Concentration</b>                                 | No Data Available                                |
| <b>Vapour Temperature</b>   | No Data Available                                |
| <b>Viscosity</b>  | 98 - 1,350 mm <sup>2</sup> /s (@ 40 - 100 °C)    |
| <b>Volatile Percent</b>   | No Data Available                                |
| <b>VOC Volume</b>   | No Data Available                                |
| <b>Additional Characteristics</b>                                     | No information available.                        |
| <b>Potential for Dust Explosion</b>                                   | Not applicable.                                  |
| <b>Fast or Intensely Burning Characteristics</b>                      | No information available.                        |
| <b>Flame Propagation or Burning Rate of Solid Materials</b>           | No information available.                        |
| <b>Non-Flammables That Could Contribute Unusual Hazards to a Fire</b> | No information available.                        |

|   |   |
|---|---|
| <b>Properties That May Initiate or Contribute to Fire Intensity</b> | May burn but does not ignite readily.   |
| <b>Reactions That Release Gases or Vapours</b>                      | Fire/decomposition may produce irritating and/or toxic fumes, including Carbon monoxide, Carbon dioxide (CO <sub>2</sub> ). |
| <b>Release of Invisible Flammable Vapours and Gases</b>             | No information available.   |

## 10. STABILITY AND REACTIVITY

|   |  |
|---|--|
| <b>General Information</b>              | No dangerous reaction known under conditions of normal use.  |
| <b>Chemical Stability</b>               | Stable under normal conditions.  |
| <b>Conditions to Avoid</b>              | Keep away from heat and sources of ignition.   |
| <b>Materials to Avoid</b>               | Incompatible/reactive with strong oxidising agents.  |
| <b>Hazardous Decomposition Products</b> | No decomposition if stored normally. Fire/decomposition may produce irritating and/or toxic fumes, including Carbon monoxide, Carbon dioxide (CO <sub>2</sub> ). |
| <b>Hazardous Polymerisation</b>         | Hazardous polymerisation does not occur.   |

## 11. TOXICOLOGICAL INFORMATION

|                            |   |
|----------------------------|---|
| <b>General Information</b> | <ul style="list-style-type: none"> <li>- Acute toxicity: Not classified based on available information.</li> <li>- Skin contact: Not classified based on available information. PRODUCT: No skin irritation (Rabbit).</li> <li>- Eye contact: Not classified based on available information.</li> <li>- Respiratory/skin sensitisation: Not classified based on available information.</li> <li>- Germ cell mutagenicity: Not classified based on available information.</li> <li>- Carcinogenicity: Not classified based on available information.</li> <li>- Reproductive toxicity: Not classified based on available information.</li> <li>- STOT (single exposure): Not classified based on available information.</li> <li>- STOT (repeated exposure): Not classified based on available information.</li> <li>- Aspiration toxicity: Not classified based on available information. PRODUCT: No aspiration toxicity classification.</li> </ul> <p>*PRODUCT: Based on available data, the classification criteria are not met.</p> |
| <b>Acute</b>               |   |
| <b>Ingestion</b>           | Acute toxicity (Oral):<br>- LD50, rat: 36 g/kg [Supplier's SDS].  |
| <b>Carcinogen Category</b> | None  |

## 12. ECOLOGICAL INFORMATION

|                                  |  |
|----------------------------------|--|
| <b>Ecotoxicity</b>               | No information available.  |
| <b>Persistence/Degradability</b> | No information available.  |
| <b>Mobility</b>                  | No information available.  |
| <b>Environmental Fate</b>        | Do not allow uncontrolled discharge of product into the environment. |
| <b>Bioaccumulation Potential</b> | No information available.  |
| <b>Environmental Impact</b>      | No Data Available  |

## 13. DISPOSAL CONSIDERATIONS

**General Information**

Dispose of wastes in an approved waste disposal facility and in accordance with local regulations.

**Special Precautions for Land Fill**

Do not contaminate ponds, waterways or ditches with chemical or used container.

**14. TRANSPORT INFORMATION****Land Transport (Australia)**

ADG Code

|                             |  |
|-----------------------------|--|
| <b>Proper Shipping Name</b> | SYNTON 100   |
| <b>Class</b>                | No Data Available                                      |
| <b>Subsidiary Risk(s)</b>   | No Data Available                                      |
|                             | No Data Available                                      |
| <b>UN Number</b>            | No Data Available                                      |
| <b>Hazchem</b>              | No Data Available                                      |
| <b>Pack Group</b>           | No Data Available                                      |
| <b>Special Provision</b>    | No Data Available                                      |
| <b>Comments</b>             | NON-DANGEROUS GOODS: Not regulated for LAND transport. |

**Land Transport (Malaysia)**

ADR Code

|                             |  |
|-----------------------------|--|
| <b>Proper Shipping Name</b> | SYNTON 100   |
| <b>Class</b>                | No Data Available                                      |
| <b>Subsidiary Risk(s)</b>   | No Data Available                                      |
|                             | No Data Available                                      |
| <b>UN Number</b>            | No Data Available                                      |
| <b>Hazchem</b>              | No Data Available                                      |
| <b>Pack Group</b>           | No Data Available                                      |
| <b>Special Provision</b>    | No Data Available                                      |
| <b>Comments</b>             | NON-DANGEROUS GOODS: Not regulated for LAND transport. |

**Land Transport (New Zealand)**

NZS5433

|                             |  |
|-----------------------------|--|
| <b>Proper Shipping Name</b> | SYNTON 100   |
| <b>Class</b>                | No Data Available                                      |
| <b>Subsidiary Risk(s)</b>   | No Data Available                                      |
|                             | No Data Available                                      |
| <b>UN Number</b>            | No Data Available                                      |
| <b>Hazchem</b>              | No Data Available                                      |
| <b>Pack Group</b>           | No Data Available                                      |
| <b>Special Provision</b>    | No Data Available                                      |
| <b>Comments</b>             | NON-DANGEROUS GOODS: Not regulated for LAND transport. |

**Land Transport (United States of America)**

US DOT

|                      |  |
|----------------------|--|
| Proper Shipping Name | SYNTON 100   |
| Class                | No Data Available                                      |
| Subsidiary Risk(s)   | No Data Available                                      |
|                      | No Data Available                                      |
| UN Number            | No Data Available                                      |
| Hazchem              | No Data Available                                      |
| Pack Group           | No Data Available                                      |
| Special Provision    | No Data Available                                      |
| Comments             | NON-DANGEROUS GOODS: Not regulated for LAND transport. |

**Sea Transport**

## IMDG Code

|                      |   |
|----------------------|---|
| Proper Shipping Name | SYNTON 100  |
| Class                | No Data Available                                     |
| Subsidiary Risk(s)   | No Data Available                                     |
| UN Number            | No Data Available                                     |
| Hazchem              | No Data Available                                     |
| Pack Group           | No Data Available                                     |
| Special Provision    | No Data Available                                     |
| EMS                  | No Data Available                                     |
| Marine Pollutant     | No  |
| Comments             | NON-DANGEROUS GOODS: Not regulated for SEA transport. |

**Air Transport**

## IATA DGR

|                      |   |
|----------------------|---|
| Proper Shipping Name | SYNTON 100  |
| Class                | No Data Available                                     |
| Subsidiary Risk(s)   | No Data Available                                     |
| UN Number            | No Data Available                                     |
| Hazchem              | No Data Available                                     |
| Pack Group           | No Data Available                                     |
| Special Provision    | No Data Available                                     |
| Comments             | NON-DANGEROUS GOODS: Not regulated for AIR transport. |

**National Transport Commission (Australia)**

Australian Code for the Transport of Dangerous Goods by Road &amp; Rail (ADG Code)

|                                |   |
|--------------------------------|---|
| Dangerous Goods Classification | NOT Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code) |
|--------------------------------|---|

**15. REGULATORY INFORMATION**

|                         |                   |
|-------------------------|-------------------|
| General Information     | No Data Available |
| Poisons Schedule (Aust) | Not Scheduled     |

**Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

|               |               |
|---------------|---------------|
| Approval Code | Not Hazardous |
|---------------|---------------|

**National/Regional Inventories**

|  |                |
|--|----------------|
| Australia (AIIIC)                              | Listed         |
| Canada (DSL)                                   | Listed         |
| Canada (NDSL)                                  | Not Determined |
| China (IECSC)                                  | Listed         |
| Europe (EINECS)                                | Not Determined |
| Europe (REACH)                                 | Not Determined |
| Japan (ENCS/METI)                              | Listed         |
| Korea (KECI)                                   | Listed         |
| Malaysia (EHS Register)                        | Not Determined |
| New Zealand (NZIoC)                            | Listed         |
| Philippines (PICCS)                            | Listed         |
| Switzerland (Giftliste 1)                      | Not Determined |
| Switzerland (Inventory of Notified Substances) | Not Determined |
| Taiwan (NCSR)                                  | Not Determined |
| USA (TSCA)                                     | Listed         |

**16. OTHER INFORMATION**

|                       |  |
|-----------------------|--|
| Related Product Codes | POALOL2160, POALOL2165   |
| Revision              | 3  |
| Revision Date         | 27 Sep 2020  |
| Reason for Issue      | New SDS, revision date is  |
| Key/Legend            | <p>&lt; Less Than<br/>&gt; Greater Than<br/> <b>AICS</b> Australian Inventory of Chemical Substances<br/> <b>atm</b> Atmosphere<br/> <b>CAS</b> Chemical Abstracts Service (Registry Number)<br/> <b>cm<sup>2</sup></b> Square Centimetres<br/> <b>CO<sub>2</sub></b> Carbon Dioxide<br/> <b>COD</b> Chemical Oxygen Demand<br/> <b>deg C (°C)</b> Degrees Celcius<br/> <b>EPA (New Zealand)</b> Environmental Protection Authority of New Zealand<br/> <b>deg F (°F)</b> Degrees Fahrenheit<br/> <b>g</b> Grams</p> |



**g/cm<sup>3</sup>** Grams per Cubic Centimetre

**g/l** Grams per Litre

**HSNO** Hazardous Substance and New Organism

**IDLH** Immediately Dangerous to Life and Health

**immiscible** Liquids are insoluble in each other.

**inHg** Inch of Mercury

**inH<sub>2</sub>O** Inch of Water

**K** Kelvin

**kg** Kilogram

**kg/m<sup>3</sup>** Kilograms per Cubic Metre

**lb** Pound

**LC<sub>50</sub>** LC stands for lethal concentration. LC<sub>50</sub> is the concentration of a material in air which causes the death of 50% (one half) of a group of test animals. The material is inhaled over a set period of time, usually 1 or 4 hours.

**LD<sub>50</sub>** LD stands for Lethal Dose. LD<sub>50</sub> is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

**ltr** or **L** Litre

**m<sup>3</sup>** Cubic Metre

**mbar** Millibar

**mg** Milligram

**mg/24H** Milligrams per 24 Hours

**mg/kg** Milligrams per Kilogram

**mg/m<sup>3</sup>** Milligrams per Cubic Metre

**Misc** or **Miscible** Liquids form one homogeneous liquid phase regardless of the amount of either component present.

**mm** Millimetre

**mmH<sub>2</sub>O** Millimetres of Water

**mPa.s** Millipascals per Second

**N/A** Not Applicable

**NIOSH** National Institute for Occupational Safety and Health

**NOHSC** National Occupational Health and Safety Commission

**OECD** Organisation for Economic Co-operation and Development

**Oz** Ounce

**PEL** Permissible Exposure Limit

**Pa** Pascal

**ppb** Parts per Billion

**ppm** Parts per Million

**ppm/2h** Parts per Million per 2 Hours

**ppm/6h** Parts per Million per 6 Hours

**psi** Pounds per Square Inch

**R** Rankine

**RCP** Reciprocal Calculation Procedure

**STEL** Short Term Exposure Limit

**TLV** Threshold Limit Value

**tne** Tonne

**TWA** Time Weighted Average

**ug/24H** Micrograms per 24 Hours

**UN** United Nations

**wt** Weight