

### 1. IDENTIFICATION

<b>Product Name</b>	<b>Odourless Mineral Spirits</b>
<b>Other Names</b>	Naphtha, petroleum, hydrotreated heavy
<b>Uses</b>	No Data Available
<b>Chemical Family</b>	No Data Available
<b>Chemical Formula</b>	No Data Available
<b>Chemical Name</b>	Odourless Mineral Spirits
<b>Product Description</b>	No Data Available

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

Organisation	Location	Telephone
Redox Pty Ltd	2 Swettenham Road Minto NSW 2566 Australia	+61-2-97333000
Redox Pty Ltd	11 Mayo Road Wiri Auckland 2104 New Zealand	+64-9-2506222
Redox Inc.	3960 Paramount Boulevard Suite 107 Lakewood CA 90712 USA	+1-424-675-3200
Redox Chemicals Sdn Bhd	Level 2, No. 8, Jalan Sapir 33/7 Seksyen 33, Shah Alam Premier Industrial Park 40400 Shah Alam 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 131126
Chemcall	Australia	1800-127406 +64-4-9179888
Chemcall	Malaysia	+64-4-9179888
Chemcall	New Zealand	0800-243622 +64-4-9179888
National Poisons Centre	New Zealand	0800-764766
CHEMTREC	USA & Canada	1-800-424-9300 CN723420 +1-703-527-3887

### 2. HAZARD IDENTIFICATION

**Poisons Schedule (Aust)** Not scheduled

#### Globally Harmonised System

**Hazard Classification** Hazardous according to the criteria of the Globally Harmonised System of Classification and Labelling of Chemicals (GHS)

**Hazard Categories** Flammable Liquids - Category 3  
Aspiration Hazard - Category 1  
Specific Target Organ Toxicity (Single Exposure) - Category 3

**Pictograms**



**Signal Word** Danger

<b>Hazard Statements</b>	<b>AUH066</b>	Repeated exposure may cause skin dryness or cracking	
	<b>H226</b>	Flammable liquid and vapour.	
	<b>H304</b>	May be fatal if swallowed and enters airways.	
	<b>H336</b>	May cause drowsiness or dizziness.	
<b>Precautionary Statements</b>	Prevention	<b>P210</b>	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		<b>P261</b>	Avoid breathing dust/fume/gas/mist/vapours/spray.
		<b>P271</b>	Use only outdoors or in a well-ventilated area.
	Response	<b>P280</b>	Wear protective gloves/eye protection/face protection.
		<b>P301 + P310</b>	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
		<b>P331</b>	Do NOT induce vomiting.
		<b>P370 + P378</b>	In case of fire: Use dry chemical, alcohol resistant foam or dry sand for extinction.

**National Transport Commission (Australia)**

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

**Dangerous Goods Classification** Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)

**Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

<b>HSNO Classifications</b>	Physical Hazards	<b>3.1C</b>	Flammable liquid - medium hazard
	Health Hazards	<b>6.1E</b>	Substances that are acutely toxic –May be harmful, Aspiration hazard

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

*Ingredients*

Chemical Entity	Formula	CAS Number	Proportion
Hydrocarbons, C9-C11,n-alkanes, isoalkanes, cyclics, <2% aromatics	No Data Available	64742-48-9	100.0 %

**4. FIRST AID MEASURES**

### **Description of necessary measures according to routes of exposure**

<b>Swallowed</b>	Do not induce vomiting - seek medical advice. Risk of the product entering the lungs on vomiting after ingestion. In this case, the casualty should be sent immediately to hospital.
<b>Eye</b>	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.
<b>Skin</b>	Remove contaminated clothing and shoes. Wash skin with soap and water.
<b>Inhaled</b>	In case of exposure to intense concentrations of vapours, fumes or spray, transport the person away from the contaminated zone, keep warm and allow to rest.
<b>Advice to Doctor</b>	Treat according symptoms.
<b>Medical Conditions Aggravated by Exposure</b>	No Data Available

## **5. FIRE FIGHTING MEASURES**

<b>Flammability Conditions</b>	Combustible liquid.
<b>Extinguishing Media</b>	Fire fighters should wear full protective equipment including self-contained breathing apparatus. Use foam, carbon dioxide, powder. Do not use water jet. Cool the containers exposed to the fire, using water spray. Incomplete combustion and thermolysis produce gases of varying toxicity such as carbon dioxide, carbon oxide various hydrocarbons, aldehydes and soot. These may be highly dangerous if inhaled. Insulated breathing apparatus must be worn in confined premises with heavy concentrations of fumes and gases.
<b>Fire and Explosion Hazard</b>	Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread near ground level to source if ignition.
<b>Hazardous Products of Combustion</b>	Combustible liquid. The product is stable at normal storage, handling and use temperatureS. Avoid contact with strong acids and oxidising agents. Incomplete combustion and thermolysis produces potentially toxic gases such as carbon oxide, carbon dioxide, various hydrocarbons, aldehydes and soot.
<b>Personal Protective Equipment</b>	No Data Available
<b>Flash Point</b>	30 °C ISO 13736
<b>Lower Explosion Limit</b>	0.6 %
<b>Upper Explosion Limit</b>	6.5 %
<b>Auto Ignition Temperature</b>	>230 °C
<b>Hazchem Code</b>	3YE

## **6. ACCIDENTAL RELEASE MEASURES**

<b>General Response Procedure</b>	Hydrocarbon-proof gloves, goggles, boots, and clothing should be worn, as applicable to risks of exposure. Design installations so as to prevent water and ground pollution. Protect environmentally sensitive areas and water resources.
<b>Clean Up Procedures</b>	Contain and recover by a physical means. Smaller quantities of residue must be collected by an absorbent. Hand over contaminated materials to an approved collector. Rinse by flooding the surface with water.

## **7. HANDLING AND STORAGE**

<b>Handling</b>	Ensure the eye bath and safety shower are available and ready for use.
<b>Storage</b>	Prevent any build-up of static electrocity. Keep away from heat. Containers and equipments must be earthed in order to prevent sparks due to static electricity. Use only hydrocarbon resistant containers, joints, pipe-lines. Keep containers closed when not in use. Store in steel, stainless steel. Avoid extended and repeated contact with the skin as this can cause skin ailments. Avoid breathing in vapours, fumes or fogs. Do not spray at high pressure (>3 bar). Do not eat or drink or smoke during use.
<b>Container</b>	No Data Available

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

<b>General</b>	For exposure to oil mist, a mean exposure value of 5 mg/m <sup>3</sup> is recommended (TLV-TWA).
<b>Exposure Limits</b>	No Data Available
<b>Biological Limits</b>	No Data Available
<b>Engineering Measures</b>	use this product in a well-ventilated atmosphere with explosion-proof equipment.
<b>Personal Protection Equipment</b>	Hand protection: Wear impermeable hydrocarbon-proof gloves. Eye protection: Goggles, in case of risk of splashing. Skin and body (other than the hands) protection: Appropriate protective clothing. Avoid prolonged and repeated contact with the skin. Do not eat, drink or smoke while handling the product. Do not use cloths stained with the product to dry hands.
<b>Work Hygienic Practices</b>	No Data Available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical State</b>	Liquid
<b>Appearance</b>	Liquid
<b>Odour</b>	Petroleum solvent
<b>Colour</b>	Colourless
<b>pH</b>	No Data Available
<b>Vapour Pressure</b>	< 5 hPa torr (@ 20 °C)
<b>Relative Vapour Density</b>	No Data Available
<b>Boiling Point</b>	140 - 175 °C ISO 3405
<b>Melting Point</b>	No Data Available
<b>Freezing Point</b>	No Data Available
<b>Solubility</b>	Soluble in many common organic solvents 25°C
<b>Specific Gravity</b>	768 kg/m <sup>3</sup> - 788 kg/m <sup>3</sup> ISO 12185
<b>Flash Point</b>	30 °C ISO 13736
<b>Auto Ignition Temp</b>	>230 °C
<b>Evaporation Rate</b>	27 EtEt=1
<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>	0.895 mm <sup>2</sup> /s (@ 40 °C)
<b>Volatile Percent</b>	No Data Available
<b>VOC Volume</b>	No Data Available
<b>Additional Characteristics</b>	Autoignition temperature > 230 Deg C. This temperature may be significantly lower under particular conditions (slow oxidation on finely divided materials...) Method : ASTM E 659-78.  Freezing Point : 0.0234 N/m @ 25 Method : EN 14370

<b>Potential for Dust Explosion</b>	No Data Available
<b>Fast or Intensely Burning Characteristics</b>	No Data Available
<b>Flame Propagation or Burning Rate of Solid Materials</b>	No Data Available
<b>Non-Flammables That Could Contribute Unusual Hazards to a Fire</b>	No Data Available
<b>Properties That May Initiate or Contribute to Fire Intensity</b>	No Data Available
<b>Reactions That Release Gases or Vapours</b>	No Data Available
<b>Release of Invisible Flammable Vapours and Gases</b>	No Data Available

## 10. STABILITY AND REACTIVITY

<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Conditions to Avoid</b>	Heat, flames, sparks. Take precautionary measures against static discharges.
<b>Materials to Avoid</b>	Strong acids, Oxidising agents.
<b>Hazardous Decomposition Products</b>	Incomplete combustion and thermolysis may produce gases of varying toxicity such as carbon monoxide, carbon dioxide, various hydrocarbons, aldehydes and soot.
<b>Hazardous Polymerisation</b>	No Data Available

## 11. TOXICOLOGICAL INFORMATION

<b>General Information</b>	<p>LD50 Oral (Rat) &gt; 5000mg/kg bw (OECD 401)  LD50 Dermal (Rabbit) &gt; 5000mg/kg bw, 24 hours (OECD 402)  LC50 Inhalation (Rat) &gt; 5000mg/kg3 (OECD 403)</p> <p>Target Organ Effects (STOT) Repeated Dose : Central Nervous system.  Specific target organ systemic toxicity (single exposure) : Vapours may cause drowsiness and dizziness.  Aspiration toxicity : the fluid can enter the lungs and cause damage (chemical pneumonitis, potentially fatal).</p> <p>Not classified as a sensitiser.  Not classified as a Carcinogenic  Genetic toxicity : Negative.</p>
<b>Eye/Irritant</b>	contact with the eyes may cause irritation.
<b>Ingestion</b>	If swallowed the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious pulmonary lesions (medical survey for 48 hours min). Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. May cause central nervous system depression.
<b>Inhalation</b>	Vapours may cause drowsiness and dizziness. May cause irritation. Inhalation of vapours may cause headache, nausea, vomiting and an altered state of consciousness.
<b>Skin/Irritant</b>	Repeated exposure may cause skin dryness, cracking and redness.
<b>Carcinogen Category</b>	No Data Available

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	<p>Toxicity to algae :  ErL50 (72h) &gt; 1000mg/l (Pseudokirchneriella subcapitata - OECD 201).</p> <p>Toxicity to daphnia and other aquatic invertebrates :  EL50 (48h) &gt; 1000 mg/l (Daphnia magna - OECD 202).</p>
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	Toxicity to fish : LL50 (96h) > 1000 mg/l (Oncorhynchus mykiss - OECD 203).
<b>Persistence/Degradability</b>	Readily biodegradable (80 % after 28 days).
<b>Mobility</b>	Substance is a UVCB. Standard test for this endpoint are not appropriate.
<b>Environmental Fate</b>	Do NOT let product reach waterways, drains and sewers.
<b>Bioaccumulation Potential</b>	Substance is a UVCB. Standard test for this endpoint are not appropriate. This substance is considered not to be PBT or vPvB.
<b>Environmental Impact</b>	No Data Available

### 13. DISPOSAL CONSIDERATIONS

<b>General Information</b>	Prevent entering sewers or the immediate environment. The only method authorized is collection by an authorized waste contractor and regeneration or incineration in an approved installation. Dispose of in accordance with all local, state and federal regulations.
<b>Special Precautions for Land Fill</b>	Empty containers may contain flammable or explosive vapours. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### 14. TRANSPORT INFORMATION

#### Land Transport (Australia)

ADG Code

<b>Proper Shipping Name</b>	HYDROCARBONS, LIQUID, N.O.S
<b>Class</b>	3 Flammable Liquids
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	16 Liquids - Highly Flammable, Toxic
<b>UN Number</b>	3295
<b>Hazchem</b>	3YE
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

#### Land Transport (Malaysia)

ADR

<b>Proper Shipping Name</b>	HYDROCARBONS, LIQUID, N.O.S
<b>Class</b>	3 Flammable Liquids
<b>Subsidiary Risk(s)</b>	No Data Available
<b>EPG</b>	16 Liquids - Highly Flammable, Toxic
<b>UN Number</b>	3295
<b>Hazchem</b>	3YE
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

#### Land Transport (New Zealand)

NZS5433

<b>Proper Shipping Name</b>	HYDROCARBONS, LIQUID, N.O.S
<b>Class</b>	3 Flammable Liquids
<b>Subsidiary Risk(s)</b>	No Data Available

<b>EPG</b>	16 Liquids - Highly Flammable, Toxic
<b>UN Number</b>	3295
<b>Hazchem</b>	3YE
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

### Land Transport (United States of America)

US DOT

<b>Proper Shipping Name</b>	HYDROCARBONS, LIQUID, N.O.S
<b>Class</b>	3 Flammable Liquids
<b>Subsidiary Risk(s)</b>	No Data Available
<b>ERG</b>	131 Flammable Liquids - Toxic
<b>UN Number</b>	3295
<b>Hazchem</b>	3YE
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

### Sea Transport

IMDG Code

<b>Proper Shipping Name</b>	HYDROCARBONS, LIQUID, N.O.S
<b>Class</b>	3 Flammable Liquids
<b>Subsidiary Risk(s)</b>	No Data Available
<b>UN Number</b>	3295
<b>Hazchem</b>	3YE
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available
<b>EMS</b>	FE, SD
<b>Marine Pollutant</b>	No

### Air Transport

IATA DGR

<b>Proper Shipping Name</b>	HYDROCARBONS, LIQUID, N.O.S
<b>Class</b>	3 Flammable Liquids
<b>Subsidiary Risk(s)</b>	No Data Available
<b>UN Number</b>	3295
<b>Hazchem</b>	3YE
<b>Pack Group</b>	III
<b>Special Provision</b>	No Data Available

### National Transport Commission (Australia)

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

<b>Dangerous Goods Classification</b>	Dangerous Goods according to the criteria of the Australian Code for the Transport of Dangerous Goods by Road & Rail (ADG Code)
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## 15. REGULATORY INFORMATION

<b>General Information</b>	No Data Available
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**Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code HSR002528

**National/Regional Inventories**

<b>Australia (AICS)</b>	Listed
<b>Canada (DSL)</b>	Not Determined
<b>Canada (NDSL)</b>	Not Determined
<b>China (IECSC)</b>	Not Determined
<b>Europe (EINECS)</b>	919-857-5
<b>Europe (REACH)</b>	Not Determined
<b>Japan (ENCS/METI)</b>	Not Determined
<b>Korea (KECI)</b>	Not Determined
<b>Malaysia (EHS Register)</b>	Not Determined
<b>New Zealand (NZIoC)</b>	Not Determined
<b>Philippines (PICCS)</b>	Not Determined
<b>Switzerland (Giftliste 1)</b>	Not Determined
<b>Switzerland (Inventory of Notified Substances)</b>	Not Determined
<b>Taiwan (NCSR)</b>	Not Determined
<b>USA (TSCA)</b>	Not Determined

**16. OTHER INFORMATION**

<b>Related Product Codes</b>	DEMISP2500, DEMISP2501, DEMISP3005, DEMISP3006, DEMISP5000, DEMISP5100
<b>Revision</b>	2
<b>Revision Date</b>	03 Sep 2016
<b>Key/Legend</b>	<p>&lt; Less Than &gt; Greater Than  <b>AICS</b> Australian Inventory of Chemical Substances  <b>atm</b> Atmosphere  <b>CAS</b> Chemical Abstracts Service (Registry Number)  <b>cm<sup>2</sup></b> Square Centimetres  <b>CO<sub>2</sub></b> Carbon Dioxide  <b>COD</b> Chemical Oxygen Demand  <b>deg C (°C)</b> Degrees Celcius  <b>EPA (New Zealand)</b> Environmental Protection Authority of New Zealand  <b>deg F (°F)</b> Degrees Farenheit  <b>g</b> Grams  <b>g/cm<sup>3</sup></b> Grams per Cubic Centimetre  <b>g/l</b> Grams per Litre  <b>HSNO</b> Hazardous Substance and New Organism</p>



**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