

#### 1. IDENTIFICATION

Product Name ISOPAR L
Other Names Solvent L
Uses Solvent.

Chemical Family No Data Available

Chemical Formula UVCB

Chemical Name Naphtha, petroleum, hydrotreated heavy

**Product Description** Isoparaffinic Hydrocarbon. This material is defined as a complex substance.

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

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

### **Emergency Contact Details**

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

40400 Shah Alam Sengalor, Malaysia

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) Schedule 5



### **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 4

Aspiration Hazard - Category 1

**Pictograms** 



Signal Word Danger

Hazard Statements H227 Combustible liquid.

**H304** May be fatal if swallowed and enters airways.

**Precautionary Statements** Prevention **P280** Wear protective gloves/eye protection/face protection.

**P210** Keep away from flames and hot surfaces. No smoking.

Response P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P331 Do NOT induce vomiting.

P370 + P378 In case of fire: Use carbon dioxide (CO2), dry chemical, foam or water fog for

extinction.

Storage **P403 + P235** Store in a well-ventilated place. Keep cool.

P405 Store locked up.

Disposal P501 Dispose of contents/container in accordance with local / regional / national /

international regulations.

# **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
Naphtha, petroleum, hydrotreated heavy	Unspecified	64742-48-9	100 %

### 4. FIRST AID MEASURES

# Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a Poison Centre or doctor/physician for advice. If

vomiting occurs spontaneously, lean patient forward or place on left side (head-down position if possible) to maintain

open airway and prevent aspiration. Never give anything by mouth to an unconscious person.

Eye 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.

Skin IF ON SKIN (or hair): Remove contaminated clothing and shoes immediately. Flush skin and hair with running water for at

least 15 minutes; Wash with plenty of soap and water. For gross contamination, drench contaminated clothing and skin with plenty of water before removing clothes. If skin irritation occurs, get medical advice/attention. Wash contaminated

clothing and shoes before reuse.

Inhaled 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. Apply resuscitation if victim is not breathing - Administer oxygen if breathing is

difficult.

**Advice to Doctor** Treat symptomatically. Ensure that attending medical personnel are aware of identity and nature of the product(s)

involved, and take precautions to protect themselves.

Medical Conditions Aggravated by No information available.

**Exposure** 

### **5. FIRE FIGHTING MEASURES**

**General Measures** If safe to do so, move undamaged containers from fire area. Cool containers with water spray until well after fire is out.

**Flammability Conditions** Combustible liquid: May burn but does not ignite readily.

**Extinguishing Media** Use dry chemical, Carbon dioxide (CO2), foam or water spray for extinction - Do not use water jets.

Fire and Explosion Hazard Containers may explode when heated. Material can accumulate static charges which may cause an ignition. Material can

> release vapours that readily form flammable mixtures. Vapour accumulation could flash and/or explode if ignited. Fire may produce irritating and/or toxic gases, including oxides of Carbon, incomplete combustion products, smoke,

**Hazardous Products of** Combustion

**Special Fire Fighting Instructions** Contain runoff from fire control or dilution water - Runoff may pollute waterways.

**Personal Protective Equipment** Wear self-contained breathing apparatus (SCBA) and chemical splash suit. SCBA and structural firefighter's uniform may

provide limited protection.

**Flash Point** 66 °C [ASTM D-93]

0.6 % **Lower Explosion Limit** 6.0 % **Upper Explosion Limit** 222°C **Auto Ignition Temperature** 

**Hazchem Code** No Data Available

#### **6. ACCIDENTAL RELEASE MEASURES**

**General Response Procedure** Ensure adequate ventilation. ELIMINATE all ignition sources. All equipment used when handling the product must be

grounded. Do not touch or walk through spilled material. Avoid breathing vapours and contact with eyes, skin and

clothing.

**Clean Up Procedures** Recover by pumping or absorb with earth, sand or other non-combustible. Use clean non-sparking tools to collect

absorbed material and transfer to suitable containers for disposal (see SECTION 13).

Containment Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. A vapour suppressing foam may be

used to reduce vapours.

Decontamination No information available.

**Environmental Precautionary** 

Measures

Prevent entry into drains and waterways.

**Evacuation Criteria** Spill or leak area should be isolated immediately. Keep unauthorised personnel away.

Personal Precautionary Measures Wear protective gloves/eye protection/face protection (see SECTION 8). Small spill: Normal antistatic work clothes are

usually adequate. Large spill: full body suit of chemical resistant, antistatic material is recommended.

#### 7. HANDLING AND STORAGE

Handling 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 vapours and contact with eyes, skin and clothing. Do NOT ingest. Use personal protective equipment as required (see SECTION 8). Keep away from heat and sources of ignition - No smoking. Material can accumulate static charges which may cause an

electric spark - Ground/bond container and receiving equipment. Use explosion-proof

electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static

discharge. Handle containers with care - Open slowly in order to control possible pressure release.

**Storage** 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. Storage containers (incl. fixed storage containers, transfer containers and assoc. equipment) should be grounded/bonded to prevent accumulation of static charge. Keep away from incompatible

materials (see SECTION 10). Store locked up.

**Container** Keep in the original container or suitable material/coatings, i.e. Carbon Steel; Stainless Steel; Teflon; Neoprene; Epoxy

Phenolics; Inorganic Zinc Coatings. Unsuitable materials/coatings: Butyl rubber, Natural rubber, Ethylene-proplyene-diene

monomer (EPDM), Vinyl Coatings.

### 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**General** No specific exposure standards are available for this product.

**Exposure Limits** No Data Available

**Biological Limits** No biological limits allocated.

Engineering Measures 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. Use explosion-proof ventilation equipment.

**Personal Protection Equipment** - Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Types of respirators to be

considered for this material include: Half-face filter respirator (refer to AS/NZS 1715 & 1716). For high airborne concentrations, use an approved supplied-air respirator, operated in positive pressure mode. Supplied air respirators with

an escape bottle may be appropriate when oxygen levels are inadequate, gas/vapour warning properties are poor, or if air purifying filter capacity/rating may be exceeded.

- Eye/face protection: Wear appropriate eye protection to avoid eye contact. If contact is likely, safety glasses with side

shields are recommended.

- Hand protection: Wear protective gloves. If prolonged or repeated contact is likely, chemical resistant gloves are

recommended. If contact with forearms is likely, wear gauntlet style gloves.

- Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. If prolonged or repeated

contact is likely, chemical and oil resistant clothing is recommended.

**Special Hazards Precaustions** 

No information available.

**Work Hygienic Practices** 

Do not eat, drink or smoke when using this product. Always wash hands after handling the material and before eating, drinking and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical StateLiquidAppearanceClear liquidOdourFaintColourColourless

pH No Data Available

Vapour Pressure 0.04 kPa (0.3 mmHg) [Calculated] (@ 20 °C)

**Relative Vapour Density** 5.6 Air = 1

**Boiling Point** 190 - 208 °C [ASTM D86]

**Melting Point** No Data Available **Freezing Point** No Data Available

Solubility Negligible solubility in water

**Specific Gravity** 0.77 (with respect to water) [Calculated]

**Flash Point** 66 °C [ASTM D-93]

**Auto Ignition Temp** 222°C

**Evaporation Rate** 0.03 (n-butyl acetate = 1) [Calculated]

No Data Available **Bulk Density Corrosion Rate** No Data Available **Decomposition Temperature** No Data Available

Density 760 kg/m3 [ASTM D4052]

**Specific Heat** No Data Available **Molecular Weight** 162 g/mol [Calculated] **Net Propellant Weight** No Data Available **Octanol Water Coefficient** Log Pow: >4 [Estimated] **Particle Size** No Data Available

**Partition Coefficient** No Data Available **Saturated Vapour Concentration** No Data Available **Vapour Temperature** No Data Available

Viscosity 1.6 cSt (1.6 mm2/sec) (@ 40 °C)

**Volatile Percent** No Data Available **VOC Volume** No Data Available

**Additional Characteristics** Pour Point: -69 °C [ASTM D5950]

**Potential for Dust Explosion** Not applicable.

**Fast or Intensely Burning** 

Characteristics

No information available.

No information available.

No information available.

Flame Propagation or Burning

**Rate of Solid Materials** 

Non-Flammables That Could Contribute Unusual Hazards to a

**Properties That May Initiate or** 

**Contribute to Fire Intensity** 

Reactions That Release Gases or

**Vapours** 

Fire

Fire/decomposition may produce irritating and/or toxic gases, including oxides of Carbon, incomplete combustion

products, smoke, fume.

Release of Invisible Flammable

Vapours and Gases

Material can release vapours that readily form flammable mixtures. Vapour accumulation could flash and/or explode if

Combustible liquid: May burn but does not ignite readily. Material can accumulate static charges which may cause an

ignited.

ignition.

# 10. STABILITY AND REACTIVITY

**General Information** No information available.

**Chemical Stability** Material is stable under normal conditions. **Conditions to Avoid** Keep away from heat and sources of ignition. **Materials to Avoid** Incompatible/reactive with strong oxidisers.

**Hazardous Decomposition** 

**Products** 

Material does not decompose at ambient temperatures. Fire/decomposition may produce irritating and/or toxic gases,

including oxides of Carbon, incomplete combustion products, smoke, fume.

**Hazardous Polymerisation** Hazardous polymerization will not occur.

#### 11. TOXICOLOGICAL INFORMATION

General Information - Acute toxicity: Minimally Toxic (Based on test data for structurally similar materials).

- Skin corrosion/irritation: May dry the skin leading to discomfort and dermatitis.
- Eye damage/irritation: May cause mild, short-lasting discomfort to eyes.
- Respiratory/skin sensitisation: Not expected to be a respiratory sensitiser. Not expected to be a skin sensitiser.
- Germ cell mutagenicity: Not expected to be a germ cell mutagen.
- Carcinogenicity: Not expected to cause cancer.
- Reproductive toxicity: Not expected to be a reproductive toxicant. Not expected to cause harm to breast-fed children.
- STOT (single exposure): Not expected to cause organ damage from a single exposure. Vapour concentrations above recommended exposure levels are irritating to the eyes and the respiratory tract, may cause headaches and dizziness, are anesthetic and may have other central nervous system effects.
- STOT (repeated exposure): Not expected to cause organ damage from prolonged or repeated exposure. Prolonged and/or repeated skin contact with low viscosity materials may defat the skin resulting in possible irritation and dermatitis.
- Aspiration toxicity: May be fatal if swallowed and enters airways (Based on physico-chemical properties of the material). Small amounts of liquid aspirated into the lungs during ingestion or from vomiting may cause chemical pneumonitis or pulmonary edema.

Acute

**Ingestion** Acute toxicity (Oral):

- LD50, Rat: >5,000 mg/kg [Test(s) equivalent or similar to OECD Guideline 401].

Other Acute toxicity (Dermal):

- LD50, Rabbit: >5,000 mg/kg [Test(s) equivalent or similar to OECD Guideline 402].

**Inhalation** Acute toxicity (Inhalation):

- LC50, Rat: >5,000 mg/m3 vapour (4 h) [Test(s) equivalent or similar to OECD Guideline 403].

Carcinogen Category None

#### 12. ECOLOGICAL INFORMATION

**Ecotoxicity** Aquatic toxicity:

- Not expected to be harmful to aquatic organisms.

- Not expected to demonstrate chronic toxicity to aquatic organisms.

**Persistence/Degradability** - Expected to be inherently biodegradable.

Transformation due to hydrolysis not expected to be significant.
Transformation due to photolysis not expected to be significant.
Expected to degrade rapidly in air (atmospheric oxidation).

**Mobility** - Highly volatile, will partition rapidly to air.

- Not expected to partition to sediment and wastewater solids.

**Environmental Fate** Prevent entry into drains and waterways.

Bioaccumulation Potential No information available.

Environmental Impact No Data Available

# 13. DISPOSAL CONSIDERATIONS

**General Information** Product is suitable for burning in an enclosed controlled burner for fuel value or disposal by supervised incineration at

very high temperatures to prevent formation of undesirable combustion products (based on material as supplied). Disposal must be in accordance with current applicable laws and regulations and material characteristics at time of

disposal.

**Special Precautions for Land Fill** Empty containers may contain residue and can be dangerous. Do not attempt to refill or clean containers without proper

instructions. Empty drums should be completely drained and safely stored until appropriately reconditioned or disposed.

Empty containers should be taken for recycling, recovery or disposal through suitably qualified or licensed contractor and in accordance with governmental regulations. Do NOT pressurise, cut, weld, braze, solder, drill, grind or expose such containers to heat, flame, sparks, static electricity or other sources of ignition. They may explode and cause injury or

### 14. TRANSPORT INFORMATION

### Land Transport (Australia)

ADG Code

**Proper Shipping Name** ISOPAR L

C1 Combustible Liquids - Flash Point >60°C - <=93°C, Closed Cup Class

Subsidiary Risk(s) No Data Available

No Data Available

**UN Number** No Data Available No Data Available Hazchem **Pack Group** No Data Available **Special Provision** No Data Available

Comments NON-DANGEROUS GOODS: Not regulated for LAND transport.

# Land Transport (Malaysia)

ADR Code

**UN Number** Hazchem

**Pack Group** 

ISOPAR L **Proper Shipping Name** 

No Data Available Class Subsidiary Risk(s) No Data Available No Data Available

> No Data Available No Data Available No Data Available

**Special Provision** No Data Available

NON-DANGEROUS GOODS: Not regulated for LAND transport. Comments

### Land Transport (New Zealand)

NZS5433

ISOPAR L **Proper Shipping Name** 

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.

### Land Transport (United States of America)

**US DOT** 

Proper Shipping Name ISOPAR L

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 ISOPAR L

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 ISOPAR L

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 & 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 InformationNo Data AvailablePoisons Schedule (Aust)Schedule 5

### **Environmental Protection Authority (New Zealand)**

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code Solvents Combustible Group Standard 2020 HSR002649

# **National/Regional Inventories**

Australia (AIIC) Listed

Canada (DSL) Listed

Canada (NDSL) Not Listed

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) Not Determined

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 ISOPAR3073, ISOPAR3270, ISOPAR3271, ISOPAR3273, ISOPAR3274, ISOPAR3275, ISOPAR3210,

ISOPAR3320, ISOPAR3330, ISOPAR5000, ISOPAR5001, ISOPAR5002, ISOPAR5003, ISOPAR5004, ISOPAR5005, ISOPAR5006, ISOPAR5009, ISOPAR5100, ISOPAR5101, ISOPAR5200, ISOPAR5201, ISOPAR5300, ISOPAR5301, ISOPAR5302, ISOPAR5303, ISOPAR5400, ISOPAR5406, ISOPAR5407, ISOPAR5600, ISOPAR7800, ISOPAR7801, ISOPAR7802, ISOPAR8400, ISOPAR8405, ISOPAR8410, ISOPAR8411, ISOPAR8412, ISOPAR8420, ISOPAR8421,

ISOPAR8430, ISOPAR8431

Revision 4

**AICS** Australian Inventory of Chemical Substances

atm Atmosphere

CAS Chemical Abstracts Service (Registry Number)

cm² Square CentimetresCO2 Carbon Dioxide

**COD** Chemical Oxygen Demand **deg C (°C)** Degrees Celcius

EPA (New Zealand) Environmental Protection Authority of New Zealand

deg F (°F) Degrees Farenheit

**g** Grams

g/cm3 Grams per Cubic Centimetre

g/I Grams per Litre

**HSNO** Hazardous Substance and New Organism

**IDLH** Immediately Dangerous to Life and Health

immiscible Liquids are insoluable in each other.

inHg Inch of Mercury

inH20 Inch of Water

K Kelvin

kg Kilogram

kg/m³ Kilograms per Cubic Metre

**Ib** Pound

**LC50** LC stands for lethal concentration. LC50 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.

**LD50** LD stands for Lethal Dose. LD50 is the amount of a material, given all at once, which causes the death of 50% (one half) of a group of test animals.

Itr 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/m³ Milligrams per Cubic Metre

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

mm Millimetre

mmH20 Millimetres of Water

mPa.s Millipascals per Second

N/A Not Applicable

NIOSH National Institute for Occupational Safety and Health

NOHSC National Occupational Heath 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