



SAFETY DATA SHEET SOLVENT 150 REVISION 5, DATE 06 NOV 21

1. IDENTIFICATION

Product Name	Solvent 150
Other Names	(Polyethyl)benzenes; Heavy aromatic naphtha
Uses	Industrial solvent.
Chemical Family	No Data Available
Chemical Formula	Unspecified
Chemical Name	Solvent naphtha, petroleum, heavy aromatic
Product Description	No Data Available

Contact Details of the Supplier of this Safety Data Sheet

Organisation	Location	Telephone
Redox Ltd	2 Swettenham Road Minto NSW 2566 Australia	+61-2-97333000
Redox 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)

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

Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Irritation - Category 2B

Carcinogenicity - Category 2

Specific Target Organ Toxicity (Single Exposure) - Category 3

Aspiration Hazard - Category 1

Long-term Hazard To The Aquatic Environment - Category 2

Pictograms

Signal Word Danger

Hazard Statements

H227 Combustible liquid.

H304 May be fatal if swallowed and enters airways.

H315 + H320 Causes skin and eye irritation.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements	Prevention	P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
		P280	Wear protective gloves/protective clothing/eye protection/face protection.
		P201	Obtain special instructions before use.
		P261	Avoid breathing mist/vapours/spray.
		P273	Avoid release to the environment.
		P271	Use only outdoors or in a well-ventilated area.
	Response	P370 + P378	In case of fire: Use carbon dioxide (CO2), dry chemical or foam for extinction.
		P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor.
		P331	Do NOT induce vomiting.
		P302 + P352	IF ON SKIN: Wash with plenty of water and soap.
		P308 + P313	IF exposed or concerned: Get medical attention.
		P312	Call a POISON CENTER or doctor if you feel unwell.
		P391	Collect spillage.
		P332 + P313	If skin irritation occurs: Get medical attention.
		P362 + P364	Take off contaminated clothing and wash it before reuse.
		P304 + P340	IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
		P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
		P337 + P313	If eye irritation persists: Get medical attention.
	Storage	P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
		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

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
Solvent naphtha, petroleum, heavy aromatic	Unspecified	64742-94-5	>60 - 100 %
Contains: Naphthalene	C10H8	91-20-3	1 - 10 %
Ingredients determined to be non-hazardous	Unspecified	Unspecified	Balance %

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

Swallowed	IF SWALLOWED: Rinse mouth with water, then give a glass of water to drink. Do NOT induce vomiting. Immediately call a Poison Centre or doctor/physician for advice. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Never give anything by mouth to an unconscious person.
Eye	IF IN EYES: Do NOT rub your 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: Immediately flush skin with running water for at least 15 minutes, while removing contaminated clothing and shoes. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing and shoes before reuse. *For skin burns, cover with a clean, dry dressing until medical help is available. If blistering occurs, do NOT break blisters. For severe burns, immediate medical attention is required.
Inhaled	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Remove contaminated clothing and loosen remaining clothing. Call a Poison Centre or doctor/physician for advice. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Administer oxygen if breathing is difficult.
Advice to Doctor	If exposed or concerned, get medical advice/attention. For advice, contact a Poisons Information Centre or a doctor. Treat symptomatically. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.
Medical Conditions Aggravated by Exposure	No information available.

5. FIRE FIGHTING MEASURES

General Measures	If safe to do so, move undamaged containers from fire area. Cool container with water spray until well after fire is out. Dike fire-control water for later disposal.
Flammability Conditions	Combustible liquid; may burn but does not ignite readily.
Extinguishing Media	Use dry chemical, Carbon dioxide (CO ₂), foam or water spray for extinction - Do not scatter spilled material with high-pressure water streams.

Fire and Explosion Hazard	*Alcohol resistant foam is the preferred firefighting medium but, if it is not available, normal foam can be used. Containers may explode when heated. May emit flammable vapour if involved in a fire. Vapours may travel to source of ignition and flash back.
Hazardous Products of Combustion	Fire may produce irritating and/or toxic gases, including oxides of carbon and nitrogen, smoke and other toxic fumes.
Special Fire Fighting Instructions	Contain runoff from fire control or dilution water - Runoff may cause pollution.
Personal Protective Equipment	Wear positive pressure self-contained breathing apparatus (SCBA). Structural firefighters' protective clothing will only provide limited protection.
Flash Point	62 °C
Lower Explosion Limit	0.6 %
Upper Explosion Limit	7.0 %
Auto Ignition Temperature	465 °C
Hazchem Code	No Data Available

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure	Ensure adequate ventilation - Ventilate enclosed spaces before entering. ELIMINATE all ignition sources (no smoking, flares, sparks or flame). Do not touch or walk through spilled material - Slippery when spilt. Avoid accidents, clean up immediately! Avoid breathing vapours and contact with eyes, skin and clothing.
Clean Up Procedures	Pick up with sand or other non-combustible absorbent material and place into properly labelled containers for later disposal (see SECTION 13). Use a spark-free shovel. *Small spills: Wipe up with absorbent (clean rag or paper towels). Collect and seal in properly labelled containers for disposal.
Containment	Stop leak if you can do it without risk. Prevent entry into waterways, sewers, basements or confined areas. Dike far ahead of large spill for later disposal.
Decontamination	No information available.
Environmental Precautionary Measures	Spillages and decontamination runoff should be prevented from entering drains and watercourses. If contamination of crops, sewers or waterways has occurred advise local emergency services.
Evacuation Criteria	Spill or leak area should be isolated immediately. Keep unauthorised personnel away. Keep upwind and to higher ground (keep out of low areas).
Personal Precautionary Measures	Wear protective equipment to prevent skin and eye contamination and the inhalation of vapours (see SECTION 8).

7. HANDLING AND STORAGE

Handling	Safety showers and eyewash facilities should be provided within the immediate work area for emergency use. Ensure adequate ventilation - Use only outdoors or in a well-ventilated area. Obtain special instructions before use - Do not handle until all safety directions have been read and understood. Avoid breathing mist/vapour/aerosols and contact with eyes, skin and clothing. Do not ingest. Wear protective gloves/protective clothing/eye protection/face protection (see SECTION 8). Combustible liquid: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Ground and bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Avoid release to the environment - Collect spillage (see SECTION 6).
Storage	Store in a cool, dry and well-ventilated place, out of direct sunlight. Keep containers standing upright and tightly closed when not in use - check regularly for leaks. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. Do not apply any physical shock to container. Keep away from foodstuffs and incompatible materials (see SECTION 10). Store locked up.
Container	Keep in the original container. Do not store in damaged containers. *Since emptied containers retain product residues, follow all SDS and label warnings even after container is emptied.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General	<p>No specific exposure standards are available for this product.</p> <p>COMPONENT: Naphthalene (CAS No. 91-20-3):</p> <ul style="list-style-type: none"> - Safe Work Australia Exposure Standard: TWA = 10 ppm (52 mg/m³); STEL = 15 ppm (79 mg/m³); Suspected human carcinogen (Carc. 2). - New Zealand Workplace Exposure Standard [Adopted 2019]: TWA = 0.5 ppm (2.6 mg/m³); STEL = 2 ppm (10 mg/m³); Suspected human carcinogen (carcinogen category 2); Skin absorption (skin). - OSHA PEL: TWA = 10 ppm (50 mg/m³). <p>*Immediately dangerous to life or health (IDLH) concentration: 250 ppm.</p>
Exposure Limits	No Data Available
Biological Limits	No information available.
Engineering Measures	<p>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.</p> <p>*Use explosion-proof electrical/ventilating/lighting equipment.</p>
Personal Protection Equipment	<ul style="list-style-type: none"> - Respiratory protection: Under conditions of frequent use or heavy exposure, respiratory protection may be needed. Recommended: Organic vapour/particulate respirator (refer to AS/NZS 1715 & 1716). - Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Wear primary eye protection, such as splash resistant safety goggles, with a secondary protection face shield. - Hand protection: Wear protective gloves. Recommended: Wear appropriate chemical resistant gloves, e.g. nitrile rubber. - Skin/body protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Wear appropriate chemical resistant protective clothing, e.g. overalls, safety shoes.
Special Hazards Precautions	No information available.
Work Hygienic Practices	Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Take off contaminated clothing and wash it before reuse.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Appearance	Clear liquid
Odour	Aromatic, hydrocarbon
Colour	Colourless
pH	No Data Available
Vapour Pressure	No Data Available
Relative Vapour Density	>1 Air = 1
Boiling Point	>179 °C
Melting Point	No Data Available
Freezing Point	No Data Available
Solubility	Insoluble in water (0.1 %)
Specific Gravity	0.89 (Water = 1)
Flash Point	62 °C
Auto Ignition Temp	465 °C
Evaporation Rate	No Data Available
Bulk Density	No Data Available
Corrosion Rate	No Data Available
Decomposition Temperature	No Data Available
Density	No Data Available
Specific Heat	No Data Available
Molecular Weight	No Data Available

Net Propellant Weight	No Data Available
Octanol Water Coefficient	No Data Available
Particle Size	No Data Available
Partition Coefficient	No Data Available
Saturated Vapour Concentration	No Data Available
Vapour Temperature	No Data Available
Viscosity	<20.5 mm ² /s (@ 40 °C)
Volatile Percent	No Data Available
VOC Volume	No Data Available
Additional Characteristics	No information available.
Potential for Dust Explosion	Not applicable.
Fast or Intensely Burning Characteristics	No information available.
Flame Propagation or Burning Rate of Solid Materials	No information available.
Non-Flammables That Could Contribute Unusual Hazards to a Fire	No information available.
Properties That May Initiate or Contribute to Fire Intensity	Combustible liquid; may burn but does not ignite readily.
Reactions That Release Gases or Vapours	Fire/decomposition may produce irritating and/or toxic gases, including oxides of carbon and nitrogen, smoke and other toxic fumes.
Release of Invisible Flammable Vapours and Gases	May emit flammable vapour if involved in a fire.

10. STABILITY AND REACTIVITY

General Information	No information available.
Chemical Stability	This material is stable under recommended storage and handling conditions.
Conditions to Avoid	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. Take precautionary measures against static discharges.
Materials to Avoid	Incompatible/reactive with oxidising substances.
Hazardous Decomposition Products	Fire/decomposition may produce irritating and/or toxic gases, including oxides of carbon and nitrogen, smoke and other toxic fumes.
Hazardous Polymerisation	Hazardous polymerisation will not occur.

11. TOXICOLOGICAL INFORMATION

General Information	<ul style="list-style-type: none"> - Acute toxicity: Swallowing can result in nausea, vomiting and irritation of the gastrointestinal tract. May cause lung damage if swallowed. Small amounts of liquid aspirated into the respiratory system during ingestion or vomiting may cause bronchopneumonia or pulmonary oedema. - Skin corrosion/irritation: Causes skin irritation. - Eye damage/irritation: May be an eye irritant. - Respiratory/skin sensitisation: This material has been classified as not a respiratory sensitiser. This material has been classified as not a skin sensitiser. - Germ cell mutagenicity: This material has been classified as not a mutagen. - Carcinogenicity: Suspected of causing cancer. COMPONENT: Naphthalene (CAS No. 91-20-3): IARC Group 2B (Possibly carcinogenic to humans). - Reproductive toxicity: This material has been classified as not a reproductive toxicant.
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- STOT (single exposure): May cause drowsiness or dizziness. Exposure via inhalation may result in depression of the central nervous system. Material may be an irritant to mucous membranes and respiratory tract. Inhalation of vapour can result in headaches, dizziness and possible nausea. Inhalation of high concentrations can produce central nervous system depression, which can lead to loss of co-ordination, impaired judgement and if exposure is prolonged, unconsciousness.
- STOT (repeated exposure): This material has been classified as not a specific hazard to target organs by repeat exposure.
- Aspiration toxicity: May be fatal if swallowed and enters airways.

Acute

Ingestion	Acute toxicity (Oral): - Acute toxicity estimate (based on ingredients): LD50 >2,000 mg/kg bw. [Supplier's SDS].
Other	Acute toxicity (Dermal): - Acute toxicity estimate (based on ingredients): LD50 >2,000 mg/kg bw. [Supplier's SDS].
Inhalation	Acute toxicity (Inhalation): - Acute toxicity estimate (based on ingredients): LC50 >20.0 mg/L (vapours) & LC50 >5.0 mg/L (dusts/mists) [Supplier's SDS].
Carcinogen Category	Cat. 2

12. ECOLOGICAL INFORMATION

Ecotoxicity	Long-term aquatic hazard: This material has been classified as a Category Chronic 2 Hazard. Non-rapidly or rapidly degradable substance for which there are adequate chronic toxicity data available OR in the absence of chronic toxicity data, Acute toxicity estimate (based on ingredients): 1 - 10 mg/L, where the substance is not rapidly degradable and/or BCF >= 500 and/or log Kow >= 4.
Persistence/Degradability	No information available.
Mobility	No information available.
Environmental Fate	Toxic to aquatic life with long lasting effects - Avoid release to the environment.
Bioaccumulation Potential	No information available.
Environmental Impact	No Data Available

13. DISPOSAL CONSIDERATIONS

General Information	Dispose of contents/container in accordance with local/regional/national regulations. If possible material and its container should be recycled. If material or container cannot be recycled, dispose of by incineration; pre-process with water separation, if possible.
Special Precautions for Land Fill	Contaminated packaging: Since emptied containers retain product residues, follow all SDS and label warnings even after container is emptied.

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

ADG Code

Proper Shipping Name	Solvent 150 (Solvent naphtha, petroleum, heavy aromatic)
Class	C1 Combustible Liquids - Flash Point >60°C - <=93°C, Closed Cup
Subsidiary Risk(s)	No Data Available
EPG	47 Low To Moderate Hazard Substances

UN Number	No Data Available
Hazchem	No Data Available
Pack Group	No Data Available
Special Provision	AU01
Comments	Not regulated as DG when transported by road or rail in packagings that do not incorporate a receptacle exceeding 500 kg(L) or IBCs.

Land Transport (Malaysia)

ADR Code

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent naphtha, petroleum, heavy aromatic)
Class	9 Miscellaneous Dangerous Goods and Articles
Subsidiary Risk(s)	No Data Available
EPG	47 Low To Moderate Hazard Substances
UN Number	3082
Hazchem	•3Z
Pack Group	III
Special Provision	No Data Available

Land Transport (New Zealand)

NZS5433

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent naphtha, petroleum, heavy aromatic)
Class	9 Miscellaneous Dangerous Goods and Articles
Subsidiary Risk(s)	No Data Available
EPG	47 Low To Moderate Hazard Substances
UN Number	3082
Hazchem	•3Z
Pack Group	III
Special Provision	No Data Available

Land Transport (United States of America)

US DOT

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent naphtha, petroleum, heavy aromatic)
Class	9 Miscellaneous Dangerous Goods and Articles
Subsidiary Risk(s)	No Data Available
ERG	171 Substances (Low to Moderate Hazard)
UN Number	3082
Hazchem	•3Z
Pack Group	III
Special Provision	No Data Available

Sea Transport

IMDG Code

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent naphtha, petroleum, heavy aromatic)
Class	9 Miscellaneous Dangerous Goods and Articles
Subsidiary Risk(s)	No Data Available
UN Number	3082
Hazchem	•3Z
Pack Group	III

Special Provision	No Data Available
EMS	F-A, S-F
Marine Pollutant	Yes

Air Transport

IATA DGR

Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Solvent naphtha, petroleum, heavy aromatic)
Class	9 Miscellaneous Dangerous Goods and Articles
Subsidiary Risk(s)	No Data Available
UN Number	3082
Hazchem	•3Z
Pack Group	III
Special Provision	No Data Available

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)
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15. REGULATORY INFORMATION

General Information	HYDROCARBONS, LIQUID
Poisons Schedule (Aust)	Schedule 5

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code	Solvents Combustible Carcinogenic Group Standard 2020 HSR002656
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National/Regional Inventories

Australia (AIC)	Listed
Canada (DSL)	Not Determined
Canada (NDSL)	Not Determined
China (IECSC)	Not Determined
Europe (EINECS)	Not Determined
Europe (REACH)	Not Determined
Japan (ENCS/METI)	Not Determined
Korea (KECI)	Not Determined
Malaysia (EHS Register)	Not Determined

New Zealand (NZIoC)	Listed
Philippines (PICCS)	Not Determined
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	SOLVES1523, SOLVES3250, SOLVES3251, SOLVES3255, SOLVES3260, SOLVES3340, SOLVES3341, SOLVES3345, SOLVES3350, SOLVES3360, SOLVES3365, SOLVES3366, SOLVES3367, SOLVES3370, SOLVES3380
Revision	5
Revision Date	06 Nov 2021
Key/Legend	<p>< Less Than > Greater Than AICS Australian Inventory of Chemical Substances atm Atmosphere CAS Chemical Abstracts Service (Registry Number) cm² Square Centimetres CO₂ 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/l 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 inH₂O Inch of Water K Kelvin kg Kilogram kg/m³ Kilograms per Cubic Metre lb 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. ltr or L Litre m³ 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 mmH₂O 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</p>

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