

1. IDENTIFICATION

Product Name Gum Turpentine

Other Names Gum Turpentine Super Grade; Wood turpentine

Uses Solvent; used as raw material in paints, synthetic camphor, terpineol, synthetic perfume, medicine production, synthetic

resin, organic chemical industry.

Chemical Family No Data Available **Chemical Formula** C10H16 (approx) **Chemical Name** Turpentine, oil

Product Description Turpentine is obtained by distilling the gum from various species of pine. It is a mixture of isomeric terpene hydrocarbons.

Composition varies with refining methods and the age, location and species of the softwood source.

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

Redox Inc. 3960 Paramount Boulevard

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

40400 Shah Alam Sengalor, Malaysia

Emergency Contact Details

Chemcall

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

Organisation Location Telephone

> 0800-243622 New Zealand

+64-4-9179888

+1-424-675-3200

National Poisons Centre New Zealand 0800-764766

2. HAZARD IDENTIFICATION

Schedule 5 Poisons Schedule (Aust)

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

Acute Toxicity (Oral) - Category 4 Acute Toxicity (Dermal) - Category 4

Acute Toxicity (Inhalation) - Category 4 Skin Corrosion/Irritation - Category 2

Serious Eye Damage/Irritation - Category 2A

Sensitisation (Skin) - Category 1

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 H226 Flammable liquid and vapour.

H302 + H312 + H332 Harmful if swallowed, in contact with skin or if inhaled.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements Prevention **P210** Keep away from heat/sparks/open flames/hot surfaces. No smoking.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P261 Avoid breathing fumes/mists/vapours/spray.

P273 Avoid release to the environment.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting and all other equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P235 Keep cool.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P271 Use only outdoors or in a well-ventilated area.

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.

P312 Call a POISON CENTER or doctor if you feel unwell.

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with

water or shower.

P337 + P313 If eye irritation persists: Get medical attention.

P333 + P313 If skin irritation or rash occurs: Get medical attention.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

P304 + P340 IF INHALED: Remove victim to fresh air and keep comfortable for breathing.



Response

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

if present and easy to do. Continue rinsing.

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.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Chemical Entity	Formula	CAS Number	Proportion
Turpentine, oil	Unspecified	8006-64-2	<=100 %

4. FIRST AID MEASURES

Description of necessary measures according to routes of exposure

Swallowed IF SWALLOWED: Rinse mouth, then drink a glass of water. 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: 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 flushing until advised to stop by a

Poisons Information Centre or a doctor, or for at least 15 minutes. Get immediate 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. Call a Poison Centre or doctor/physician for advice. 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. Immediately call a Poison

Centre or doctor/physician for advice. Apply resuscitation if victim is not breathing - Do not use direct mouth-to-mouth method if victim ingested or inhaled the substance; use alternative respiratory method or proper respiratory device -

Administer oxygen if breathing is difficult.

Advice to Doctor Treat symptomatically and supportively. Keep victim calm and warm - Obtain immediate medical care. Ensure that

attending medical personnel are aware of identity and nature of 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.

Avoid getting water inside containers.

Flammability Conditions HIGHLY FLAMMABLE: Low flashpoint - Will be easily ignited by heat, sparks or flame.

Extinguishing MediaUse dry chemical, Carbon dioxide (CO2), normal foam or dry sand for extinction - Do not use water jets.

*Caution: Use of water spray when fighting fire may be inefficient.

Fire and Explosion Hazard Risk of violent reaction or explosion: Vapours will form explosive mixtures with air. Vapours may travel to source of

ignition and flash back. Most vapours are heavier than air and will collect in low or confined areas. Many liquids are lighter than water. Containers may explode when heated. Vapours from runoff may create an explosion hazard.

Hazardous Products of

Combustion

Fire will produce irritating, toxic and/or corrosive gases, including Carbon oxides.



Special Fire Fighting Instructions Contain runoff from fire control or dilution water - Runoff may pollute waterways; Vapours from runoff may create an

explosion hazard.

Personal Protective Equipment Self-contained breathing apparatus (SCBA) and chemical protective clothing should be worn. SCBA and structural

firefighting uniform provide VERY limited protection.

Flash Point 30 - 46 °C [Closed cup]

Lower Explosion Limit 0.8 %

Upper Explosion LimitNo Data Available **Auto Ignition Temperature**220 - 255 °C

Hazchem Code 3Y

6. ACCIDENTAL RELEASE MEASURES

General Response Procedure Ensure adequate ventilation - Ventilate enclosed space before entering. ELIMINATE all ignition sources - All equipment

used when handling the product must be earthed. 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.

Large spills: Pump into steel drums and hold for waste disposal. Absorb small spills/residues with earth, sand or other non-combustible material. Use clean, non-sparking tools to collect material and place it in suitable containers for later

disposal (see SECTION 13).

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

to control vapours - Water spray may be used to knock down or divert vapour clouds.

Decontamination Do not wash untreated material down the drain or sewer.

Environmental Precautionary

Measures

Clean Up Procedures

Spillages and decontamination runoff should be prevented from entering drains and watercourses. If contamination of

sewers or waterways has occurred advise local emergency services.

Evacuation Criteria Spill or leak area should be isolated immediately. Keep upwind and to higher ground. Keep unauthorised personnel

away. Large spills: Immediately contact Police or Fire Brigade; Consider initial downwind evacuation of areas within at

least 300 m.

Personal Precautionary Measures SCBA and gas-tight suits should be worn when dealing with damaged or leaking containers and where there is no risk of

ignition. SCBA and structural firefighting uniform provide VERY limited protection where there is a risk of ignition.

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. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing mist/vapours/spray and contact with eyes, skin and clothing. Do not ingest. Wear protective gloves/protective clothing/eye protection/face protection (see SECTION 8). HIGHLY FLAMMABLE: Keep away from heat and sources of ignition - No smoking. Ground/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 tightly closed when not in use -

check regularly for leaks. Keep away from heat and source of ignition - No smoking. Keep away from foodstuffs and

incompatible materials (see SECTION 10). Store locked up.

Container Keep in the original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

General For Turpentine (CAS No. 8006-64-2):

- Safe Work Australia Exposure Standard: TWA = 100 ppm (557 mg/m3); Respiratory and/or skin sensitiser (Sen).
- New Zealand Workplace Exposure Standard: TWA = 100 ppm (557 mg/m3).



- NIOSH REL/OSHA PEL: TWA = 100 ppm (560 mg/m3).

- Immediately dangerous to life or health (IDLH) concentration: 800 ppm.

Exposure Limits No Data Available

Biological Limits No information available.

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 electrical/ventilating/lighting equipment.

Personal Protection Equipment - Respiratory protection: In case of inadequate ventilation, wear respiratory protection. Recommended: Organic

vapour/particulate filter respirator (refer to AS/NZS 1715 & 1716).

- Eye/face protection: Wear appropriate eye protection to avoid eye contact. Recommended: Chemical goggles.

- Hand protection: Wear protective gloves. Recommended: Impervious gloves.

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

safety shoes.

Special Hazards Precaustions

The odour warning when the exposure limit value is exceeded is insufficient.

Work Hygienic Practices

Do not eat, drink or smoke when using this product. Always wash hands before smoking, eating, drinking or using the

toilet. Wash contaminated clothing and other protective equipment before storage or re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State Liquid

Appearance Clean, transparent liquid

OdourPungentColourColourless

pH No Data Available
Vapour Pressure No Data Available
Relative Vapour Density No Data Available
Boiling Point 149 - 180 °C
Melting Point -50 - -60 °C
Freezing Point No Data Available
Solubility Insoluble in water

Specific Gravity <=0.87

Flash Point 30 - 46 °C [Closed cup]

220 - 255 °C **Auto Ignition Temp Evaporation Rate** No Data Available **Bulk Density** No Data Available **Corrosion Rate** No Data Available **Decomposition Temperature** No Data Available No Data Available Density **Specific Heat** No Data Available **Molecular Weight** No Data Available **Net Propellant Weight** No Data Available **Octanol Water Coefficient** log Pow = 4.83**Particle Size** No Data Available **Partition Coefficient** No Data Available **Saturated Vapour Concentration** No Data Available Vapour Temperature No Data Available Viscosity No Data Available **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

Risk of violent reaction or explosion

Flame Propagation or Burning

Rate of Solid Materials

No information available.

Non-Flammables That Could Contribute Unusual Hazards to a

No information available.

Fire

Properties That May Initiate or Contribute to Fire Intensity

HIGHLY FLAMMABLE: Low flashpoint - Will be easily ignited by heat, sparks or flame.

Reactions That Release Gases or

Fire/decomposition may produce irritating, toxic and/or corrosive fumes, including Carbon oxides.

Vapours

Vapours will form explosive mixtures with air.

Release of Invisible Flammable Vapours and Gases

10. STABILITY AND REACTIVITY

General Information Decomposes slowly under the influence of air and light. Reacts violently with oxidants, halogens, combustible

substances, mineral acids. Attacks plastic and rubber.

Chemical Stability Stable under specified conditions of storage, shipment and use.

Conditions to Avoid Keep away from heat and sources of ignition. Avoid exposure to air and light.

Materials to Avoid Incompatible/reactive with strong oxidising agents.

Hazardous Decomposition

Products

Fire/decomposition may produce irritating, toxic and/or corrosive fumes, including Carbon oxides.

Hazardous Polymerisation No information available.

11. TOXICOLOGICAL INFORMATION

General Information

- Acute toxicity: Harmful if swallowed, in contact with skin and if inhaled. Symptoms of intoxication include central nervous system (CNS) depression, renal damage, spasms, coma, headache, dizziness, nausea, weakness, burning sensation in the mouth, throat and stomach, thirst, vomiting and diarrhoea, confusion, convulsions, unconsciousness.
- Skin corrosion/irritation: Causes skin irritation. Symptoms include redness, pain. The substance defats the skin, which may cause dryness or cracking.
- Eye damage/irritation: Causes serious eye irritation. Symptoms include blurred vision, pain, redness.
- Respiratory/skin sensitisation: May cause an allergic skin reaction.
- Germ cell mutagenicity: Turpentine is not considered to be genotoxic.
- Carcinogenicity: No information available (not classifiable as a human carcinogen).
- Reproductive toxicity: No information available.
- STOT (single exposure): May cause drowsiness or dizziness. Inhalation of turpentine may cause headache, dizziness, nausea and confusion. Exposure at high levels could cause tachycardia, unconsciousness, respiratory failure and death. Turpentine (vapour) is a sensory irritant, which evokes a stinging or burning sensation in the eyes and upper respiratory tract (nose and throat). Symptoms include cough, sore throat, shortness of breath, burning sensation.
- STOT (repeated exposure): Turpentine may cause adverse health effects following repeated inhalation exposure. The substance may cause effects on the central nervous system, bladder and kidneys.
- Aspiration toxicity: May be fatal if swallowed and enters airways. Aspiration of turpentine may cause chemical pneumonitis, accumulation of fluid in the lungs, breathing difficulties and cyanosis.

Acute

Ingestion Acute toxicity (Oral):

- LD50, Rat: >2,000 mg/kg bw. [NICNAS].



Other Acute toxicity (Dermal):

- LD50, Rabbit: >2,000 mg/kg bw. [NICNAS].

Inhalation Acute toxicity (Inhalation):

- LC50, Rat: 13.7 mg/L vapours (4 h) [NICNAS].

Carcinogen Category None

12. ECOLOGICAL INFORMATION

 Ecotoxicity
 No information available.

 Persistence/Degradability
 No information available.

 Mobility
 No information available.

Environmental Fate Hazardous for water. Toxic to aquatic life with long lasting effects - Do not allow product to reach ground water, water

course or sewage system.

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. Contact a licensed professional

waste disposal service to dispose of this material.

Special Precautions for Land Fill Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material

is highly flammable.

14. TRANSPORT INFORMATION

Land Transport (New Zealand)

NZS5433

Proper Shipping Name TURPENTINE

Class3 Flammable LiquidsSubsidiary Risk(s)No Data AvailableEPG15 Liquids - Flammable

 UN Number
 1299

 Hazchem
 3Y

 Pack Group
 III

Special Provision No Data Available

Sea Transport IMDG Code

Proper Shipping Name TURPENTINE

Class 3 Flammable Liquids
Subsidiary Risk(s) No Data Available

UN Number 1299



Hazchem 3Y Pack Group III

Special Provision No Data Available

EMS F-E, S-E
Marine Pollutant Yes

Air Transport IATA DGR

Proper Shipping Name TURPENTINE

Class 3 Flammable Liquids
Subsidiary Risk(s) No Data Available

 UN Number
 1299

 Hazchem
 3Y

 Pack Group
 III

Special Provision No Data Available

15. REGULATORY INFORMATION

General Information TURPENTINE OIL
Poisons Schedule (Aust) Schedule 5

Environmental Protection Authority (New Zealand)

Hazardous Substances and New Organisms Amendment Act 2015

Approval Code HSR001233 (Reissued)

National/Regional Inventories

Australia (AIIC) Listed

Canada (DSL) Listed

Canada (NDSL) Not Determined

China (IECSC) Listed

Europe (EINECS) 232-350-7

Europe (REACh) Not Determined

Japan (ENCS/METI) Listed

Korea (KECI) KE-35026

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 GUTURP1000, GUTURP1001, GUTURP1002, GUTURP1003, GUTURP1004, GUTURP1005, GUTURP1006, GUTURP1007,

GUTURP1008, GUTURP1009, GUTURP1010, GUTURP1500, GUTURP1501, GUTURP1502, GUTURP2000, GUTURP2500, GUTURP3000, GUTURP3001, GUTURP3300, GUTURP3400, GUTURP3500, GUTURP3501, GUTURP3505, GUTURP3510, GUTURP3512, GUTURP3600, GUTURP3700, GUTURP4000, GUTURP4001, GUTURP4002, GUTURP4400, GUTURP4401, GUTURP4402, GUTURP4403, GUTURP4404, GUTURP4405, GUTURP4406, GUTURP4407, GUTURP4408, GUTURP5000,

GUTURP6000, GUTURP7000, GUTURP8000, GUTURP9000

Revision

Revision Date 28 May 2020
Reason for Issue updated sds
Key/Legend < Less Than
> Greater Than

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
inH2O 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 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



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

