

C Roberson & Co Ltd

Safety Data Sheet according to Directive 91/155/EC

Revision Date: April 2016

1) Identification of the substance/preparation and the company

Trade Name: Pure Gum Turpentine/Rectified Turpentine

Application: Natural solvent for use with artists' paints

Manufacturer/Supplier:

C. Roberson & Co Ltd
1A Hercules Street
London N7 6AT

Tel: 020 7272 0567

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2) Composition/Information on ingredients

Pure Turpentine

EEC No. 232-350-7

Turpentine: CAS – 8006-64-2

Ingredients:

Mixture of terpenes derived from pine oil extract

Alpha pinene: 50 - 58% (CAS No. 7785-70-8)

Beta pinene: 30 – 38% (CAS No. 18172-67-3)

Beta phellandrene: 3 – 5% (CAS No. 1329-99-3)

3) Hazards Identification

Classification: Physical - Flam. Liq. 3 - H226
Health - Acute Tox. 4 - H302; Acute Tox. 4 – H312; Acute Tox. 4 - H332;
Skin Irrit. 2 - H315; Eye Irritant - 2 - H319; Skin Sens. 1 - H317; Asp. Tox. 1 - H304
Environmental - Aquatic Chronic 2 - H411

Key Word: DANGER



Hazard statements:	H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H411 Toxic to aquatic life with long lasting effects.
Precautionary statements:	P101 - If medical advice is needed, have product container or label at hand. P102 Keep out of reach of children. P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking. P301/310 IF SWALLOWED: Immediately call a POISON CENTER or doctor. P261e Avoid breathing vapours. P280 Wear protective gloves. P331 Do NOT induce vomiting. P304/340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. P302/352 IF ON SKIN: Wash with plenty of soap and water. P333+313 If skin irritation or rash occurs get medical attention / advice P362 Take off contaminated clothing and wash before re-use
Other hazards:	P233 Keep container tightly closed. P240 Ground/bond container and receiving equipment. P242 Use only non-sparking tools. P243 Take precautionary measures against static discharge. P273 Avoid release to the environment. P280 Wear protective gloves/protective clothing/eye protection/face protection. P303/361/353 IF ON SKIN Remove immediately all contaminated clothing.

4) First Aid Measures

Description of measures:

Inhalation: Avoid working in a poorly ventilated, confined space. Remove to fresh air and rest. If irritation or breathing difficulties persist, seek medical attention.

Skin contact: Wash off skin with warm soapy water. Remove contaminated clothing and launder regularly. Prolonged and unattended contact should be avoided. Where irritation to skin is apparent seek medical attention.

Ingestion: Clean out mouth with copious volumes of water and drink plenty. Do not induce vomiting. Beware of aspiration if vomiting occurs. Seek prompt medical attention and show this data sheet

Eye contact: Irrigate thoroughly for 15 minutes with clean running water or a boric saline eye wash bottle. Seek medical attention should eye irritation persist or become inflamed.

Acute & Chronic symptoms:

Inhalation: Vapours inhaled in strong concentration have a narcotic effect on the central nervous system. Irritation of the respiratory tract due to excessive fumes causes headache, drowsiness or other effects to the central nervous system, loss of consciousness.

Skin contact: Prolonged or repeated contact may cause irritation and dry skin.

Ingestion: Nausea, vomiting, abdominal pain.

Eye Contact: Burning feeling and temporary redness.

Immediate medical attention: This will be needed to resolve the most severe risk which is through ingestion as the product may enter the lungs due to its low viscosity and lead to the rapid development of very serious inhalation pulmonary lesions (medical survey during 48 hours).

5) Fire Fighting Measures

Extinguishers: Dry powder; alcohol resistant Foam, CO₂ – Do not use water jets.

Combustion Hazards: Hazardous decomposition when subject to combustion – will produce noxious, irritating fumes.

Advice for fire-fighters: Use approved self-contained breathing apparatus. Only use a fine water spray to cool down heat affected containers – not burning product. Cool containers exposed to flames with water until well after the fire is out. Keep run-off water out of sewers and water sources. Dike for water control.

6 Accidental Release Measures

Personal protection: Ventilate area and eliminate all sources of ignition. Wear personal protective equipment recommended in section 8. Note small spillages will still present a slippage hazard.

Environmental protection: Do not allow spill to enter drains or watercourses. Form a dam with sand, earth or a boom. Absorb, bund and scrape spillages onto sand, sawdust or absorbent granules.

Spill removal methods: Confine absorbed residues in a clearly marked sealed container for disposal in accordance with Local Authority regulations for flammable

products – subject to special waste management controls. Clean affected area with detergent & water

References to other sections: Wear protective clothing as described in Section 8 of this safety data sheet. See section 11 for additional information on health hazards. For waste disposal, see section 13.

7) Handling and Storage

Safe handling precautions: Eliminate all sources of ignition. Risk of vapour concentration on the floor and in low-lying areas. Static electricity and formation of sparks must be prevented. Use explosion proof electric equipment. Wear full protective clothing for prolonged exposure and/or high concentrations. Contaminated clothing and shoes must be discarded. Contaminated rags and cloths must be put in fireproof containers for disposal. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

Safe storage conditions: Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container. Take precautionary measures against static discharges.

Incompatible materials: Keep away from oxidisers, heat and flames. May attack some plastics, rubber and coatings.

Specific end uses: The identified uses for this product are detailed in Section 1

8) Exposure/Personal Protection

Control Parameters: WEL = 100 ppm 8hr TWA; STEL = 150 ppm (15mins)

Exposure controls:

Engineering controls: Provide adequate general and local exhaust ventilation.

Respiratory protections: No specific recommendation is made, but appropriately specified respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

Hand protection: Protective gloves must be used. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material. Use protective gloves made of nitrile.

Eye protection: BS 2092 approved safety Goggles should be worn for all applications to help prevent accidental face/eye contact.

Other Protection: Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact.

Hygiene measures: DO NOT SMOKE IN WORK AREA!

Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

9) Physical and chemical Properties

Appearance: Clear free flowing Liquid
Colour: Pale yellow
Odour threshold: Lower
pH: N/A
Density / SG: 0.85 – 0.87 g/cm³
Solubility: Nil - Oils only 100%
Flash point: 36°C
Auto ignition Temp: > 250°C
Vapour pressure: <5kPa₂₀
Evaporation rate: < 1 (n-But Ac = 1)
Upper/Lower Flam limits: 0.6% - 7.0%
Relative density: 0.855 – 0.865
Viscosity: 1.5 mm²/s
Boiling point: 150°C - 170°C (94%)
Flammability limits: 0.6% - 7.0% vol in air
Explosive properties: May form explosive mixtures with air.
Oxidising properties: N/A

10) Stability and Reactivity

Conditions to avoid: Sources of ignition. Avoid static discharge.
Incompatible Materials: Acids & Oxidising agents
Decomposition hazards: Fire creates toxic fumes
Reactivity: Stable except when ignited
Chemical reactivity: Stable under the prescribed storage conditions.
Risk of hazardous reaction: None under normal use.

11) Toxicological Information

Information on toxicological effects: This product has not been exhaustively tested. Judgements on the expected toxicity of this product have been made based upon consideration of its' major components.

Routes of exposure: Inhalation, skin contact and ingestion.
Eye damage/irritation: Burning feeling and temporary redness.
Reproductive toxicity: n/a
STOT single exposure: LD50 > 3200mg/kg when rat ingested

STOT repeat exposure: Target Organs – Central nervous system Respiratory system, lungs

Skin Corrosivity / Irritation: May cause de-fatting of the skin,

Respiratory/skin sensitisation: Irritation and sensitisation leading to dermatitis

Germ cell Mutagenicity: n/a

Carcinogenicity: No evidence of carcinogenic properties

Aspiration hazard: The fluid can enter the lungs and cause damage (chemical pneumonitis, potentially fatal).

12) Ecological Information

Ecotoxicity: LC50: 33 mg/litre
LC100: 43 mg/litre

Bio-accumulative potential: Negligible due to high volatility resulting in rapid evaporation to air.

Persistence & degradability: Inherently biodegradable - Will be removed within a waste-water treatment facility

Mobility in soil: 75% degradable in 28 days

PBT and vPvB result: Not Classified as PBT/vPvB

Other adverse effects: n/a

13) Disposal Information

Disposal Methods: Application equipment such as brushes and cloths will retain a flammability risk until they are either laundered or allowed to dry completely.

Special requirements: Unused product and freshly contaminated application materials must be considered flammable and disposed of in accordance with local authority regulations for flammable liquids / paints.

Regulatory controls: Special waste provisions apply to the disposal of this product

14) Transport Information

Regulatory Code (Land, Sea & Air):

	ADR	IMDG	ICAO
UN No.:	1299	1299	1299
Proper shipping name:	Pure Turpentine Oil	Pure Turpentine Oil	Pure Turpentine Oil
ADR Packing Group:	III	III	III
Transport Hazard Class:	3	3.3 3391	3
Environmental hazards:	Marine pollutant	Marine pollutant	Marine pollutant
Special user precautions:	EAC Code - 3Y/30	EMS F-E, S-E	HAZCHEM CODE 3Y/30
Transport in bulk – IBC code: HAZARD No. (ADR) 33 Tunnel Restriction Code (D/E)			

15) Regulatory Information

Safety, health and environmental regulations / legislation specific for the substance or mixture. All components are listed as existing substances in Europe.

UK Regulatory References:

Health and Safety at Work Act 1974. The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments. Chemicals (Hazard Information & Packaging) Regulations.

Environmental Listing - Control of Pollution Act 1974. Control of Pollution (Special Waste Regulations) Act 1980.

Statutory Instruments: The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716).

Approved Code Of Practice Classification and Labelling of Substances and Preparations Dangerous for Supply.

Guidance Notes:

Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG (108).

EU Legislation:

Dangerous Substance Directive 67/548/EEC.

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation,

Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

National Regulations:

Users of this product are reminded of their duties under the current Control of Substances Hazardous to Health Regulations and a suitable and sufficient assessment of all the risk should be undertaken before using this product. The guidelines given in the HSE publication COSHH

ESSENTIALS - Easy Steps to Control Chemicals gives sound advice for deciding safe working control measures.

Authorisations (Title VII Regulation 1907/2006) - No specific authorisations are noted for this product.

Restrictions (Title VIII Regulation 1907/2006) - No specific restrictions of use are noted for this product.

Chemical safety assessment

A chemical safety assessment has not been carried out for this product.

16) Other information

This Safety Data Sheet was compiled using the current safety information supplied by the distributors of the component materials.

To best of our knowledge the information contain herein is accurate. However, neither the above supplier assumes any liability whatsoever for the accuracy or completeness of the information herein

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist