PURE GUM TURPENTINE
SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY:

Product Name: PURE GUM TURPENTINE

Applications: High quality , naturally derived solvent for use with artists oil paints, removal of oil & grease stains and as a natural source of pine fragrance in formulated products

Supplier: Palace Chemicals Ltd; Speke Hall Industrial Estate; Speke; Liverpool; L24 4AB
Tel: 0151 486 6101; Fax 0151 448 1982
e-mail: sales@palacechemicals.co.uk; web: www.palacechemicals.co.uk

2. COMPOSITION / INFORMATION ON INGREDIENTS:

Ingredients: Mixture of terpenes derived from pine oil extract
Alpha pinene: 55 – 75%
Beta pinene: 8 – 38%
Delta 3 –carene @ < 1.0%
EEC No. 232-3507
CAS – 008006-64-2

Hazardous components: As above

3. HAZARDS IDENTIFICATION:

Classification: FLAMMABLE. IRRITANT; HARMFUL; DANGEROUS FOR THE ENVIRONMENT

Risk Phrases: May cause lung damage if swallowed;
Irritating to eyes, skin & mucous membranes;
May cause sensitisation by skin contact;
Toxic to aquatic organisms; May cause long term adverse effects in the aquatic environment
Repeated exposure may cause skin dryness and cracking

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

7. HANDLING & STORAGE:

Handling precautions:	Ensure adequate ventilation and use all recommended personal protective equipment alng with engineering controls such as local exhaust ventilation where available.
Storage precautions:	Store in tightly-sealed, clearly marked containers. Keep out of reach of children in a cool well-ventilated environment preferably within a lockable metal cabinet.
Usage precautions:	Use electrostatic earthing when pumping or pouring large volumes of flammable liquid. Isolate all nearby sources of ignition (pilot lights etc.)

8. EXPOSURE CONTROLS & PERSONAL PROTECTION:

Exposure limits:	OEL = 100 ppm 8hr TWA; STEL = 150 ppm (10mins)
Process controls:	Provide adequate containment and local exhaust ventilation
Personal protection:	**Respiratory:** Good ventilation is always required however in confined spaces use an organic vapour filtered half-face mask. **Hand:** Wear 17" long elbow length latex rubber (chlorinated) or nitrile gloves approved to EN 374 & EN 420 with a BTT rating of > 4 hrs. **Eye:** BS 2092 Goggles should be worn for all applications to help prevent accidental face/eye contact. **Skin:** A disposable PVC apron should be worn on top of overalls, however if the fabric becomes contaminated these should be laundered immediately. Frequent and prolonged skin contact must be prevented

9. PHYSICAL & CHEMICAL PROPERTIES:

Appearance:	Clear free flowing Liquid	**Vapour pressure:**	4 mm Hg mBar
Colour:	Very pale yellow	**Evaporation rate:**	< 1 (n-But Ac = 1)
Density / SG:	0.85 – 0.87 g/cm3	**Viscosity:**	1.5 mm2/s
Solubility:	Oils only	**Boiling point:**	156'C - 170'C (94%)
Flash point:	36'C	**Flammability limits:**	0.6% - 7.0% vol in air
Auto ignition Temp:	> 250'C	**Oxidising properties:**	n/a

10. STABILITY & REACTIVITY:

Conditions to avoid:	Sources of ignition, exposing container to direct sunlight and elevated temperatures
Materials to avoid:	Oxidising agents
Decomposition products:	Acrid black smoke and oxides of carbon.

11. TOXICOLOGICAL INFORMATION:

Routes of exposure:	Inhalation, skin contact and ingestion.	**Inhalation:**	13.5 mg/litre for acute toxicity
Acute short term effects:	Skin redness, irritation and eyes watering.	**Sensitisation:**	With prolonged contact
Chronic long term effects	irritation and sensitisation leading to dermatitis	**Mutagenicity:**	n/a
Toxic dose -LD 50:	LD50 > 3200mg/kg when rat ingested	**Carcinogenicity:**	n/a
Prolonged exposure effects:	headaches and Depression of the CNS	**Reproductive toxicity:**	n/a

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

13. DISPOSAL CONSIDERATION:

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:

Proper shipping name: PURE TURPENTINE OIL

ADR Class No.:	3	**Flash point:**	36^{O}C
UN No.	1299	**IMDG Class:**	3.3
ADR Packing Group:	III	**IMDG Pack group:**	III
EAC/HIN Codes:	3Y / 30	**Marine pollutant:**	YES

15. REGULATORY INFORMATION:

Classification: FLAMMABLE. HARMFUL; IRRITANT
DANGEROUS FOR THE ENVIRONMENT


Risk phrases: R10, R20/21/22; R36/38; R43; R51, R53
Safety phrases: S2, S16, S23, S24, S25, S57, S60, S62
UK Regulatory references: All retail packs require a child resistant closure approved to BS EN ISO 28317 and a Tactile danger warning triangle.

16. OTHER INFORMATION:

Last revision date: 26-04-05
SDS No.: 100
Data sources: Volume VII Approved supply list; EH40; Croner; Bulk supplier data sheets
Disclaimer: The information supplied in this safety data sheet is intended to assist in the use of the above product without risk to safety and health and is based on current knowledge and experience of the associated physico-chemical hazards. The data does not signify any warranty with regard to the product's properties. This information may be used to assist in formulating a COSHH risk assessment if applied at work. This data sheet complies with EC Directive 91/155EC.