



## SAFETY DATA SHEET TURPENTINE SUBSTITUTE

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

#### 1.1. Product identifier

Product name TURPENTINE SUBSTITUTE  
Product No. TTS200, TTS750

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### 1.3. Details of the supplier of the safety data sheet

Supplier TETROSYL LIMITED  
Bury  
Lancashire  
England  
BL9 7NY  
0161 764 5981  
0161 797 5899  
info@tetrosyl.com

Manufacturer TETROSYL LIMITED  
Bury  
Lancashire  
England  
BL9 7NY  
0161 764 5981  
0161 797 5899  
info@tetrosyl.com

#### 1.4. Emergency telephone number

0161 764 5981

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical and Chemical Hazards	Flam. Liq. 3 - H226
Human health	EUH066;STOT SE 3 - H336;STOT RE 1 - H372;Asp. Tox. 1 - H304
Environment	Aquatic Chronic 2 - H411

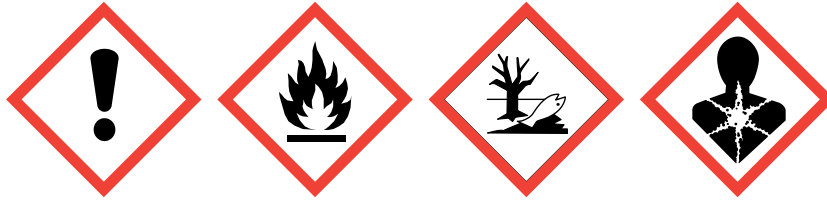
Classification (67/548/EEC) Xn;R65. N;R51/53. R10, R66, R67.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

#### 2.2. Label elements

Contains Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)

Label In Accordance With (EC) No. 1272/2008

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Signal Word	Danger		
Hazard Statements	H226	Flammable liquid and vapour.	
	H304	May be fatal if swallowed and enters airways.	
	H336	May cause drowsiness or dizziness.	
	H372	Causes damage to organs Central nervous system through prolonged or repeated exposure.	
	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.	
	P270	Do not eat, drink or smoke when using this product.	
	P271	Use only outdoors or in a well-ventilated area.	
	P260	Do not breathe vapour/spray.	
	P261	Avoid breathing vapour/spray.	
	P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.	
	P312	Call a POISON CENTER or doctor/physician if you feel unwell.	
	P314	Get medical advice/attention if you feel unwell.	
	P331	Do NOT induce vomiting.	
	P405	Store locked up.	
	P501	Dispose of contents/container in accordance with local regulations.	
	Supplementary Precautionary Statements	P233	Keep container tightly closed.
		P240	Ground/bond container and receiving equipment.
P241		Use explosion-proof electrical 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.	
P264		Wash contaminated skin thoroughly after handling.	
P370+378		In case of fire: Use foam, carbon dioxide, dry powder or water fog for extinction.	
P303+361+353		IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.	
P304+340		IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
P391		Collect spillage.	
P403+233		Store in a well-ventilated place. Keep container tightly closed.	
P403+235		Store in a well-ventilated place. Keep cool.	
Supplemental label information		EUH066	Repeated exposure may cause skin dryness or cracking.

**TURPENTINE SUBSTITUTE****2.3. Other hazards****SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Substances**

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)		75.0-100%
CAS-No.:	EC No.: 919-446-0	Registration Number: 01-2119458049-33-XXXX
Classification (EC 1272/2008)		Classification (67/548/EEC)
Flam. Liq. 3 - H226		Xn;R65.
EUH066		N;R51/53.
STOT SE 3 - H336		R10,R66,R67.
STOT RE 1 - H372		
Asp. Tox. 1 - H304		
Aquatic Chronic 2 - H411		

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

**SECTION 4: FIRST AID MEASURES****4.1. Description of first aid measures**

## General information

Remove affected person from source of contamination. NOTE! Effects may be delayed. Keep affected person under observation. Move the exposed person to fresh air at once. NOTE! Keep affected person away from heat, sparks and flames! Place unconscious person on the side in the recovery position and ensure breathing can take place. Keep the affected person warm and at rest. Get prompt medical attention.

## Inhalation

Remove victim immediately from source of exposure. Move injured person into fresh air and keep person calm under observation. If uncomfortable: Seek hospital and bring these instructions.

## Ingestion

Immediately rinse mouth and drink plenty of water or milk. Keep person under observation. Do not induce vomiting. If vomiting occurs, keep head low. Transport immediately to hospital and bring along these instructions. Do not give victim anything to drink if he is unconscious. NOTE! Keep affected person away from heat, sparks and flames!

## Skin contact

Remove contaminated clothes and rinse skin thoroughly with water. Get medical attention if any discomfort continues.

## Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Do not rub eye. Get medical attention if any discomfort continues.

**4.2. Most important symptoms and effects, both acute and delayed**

## General information

The severity of the symptoms described will vary dependant of the concentration and the length of exposure. NOTE! Effects may be delayed. Keep affected person under observation.

## Inhalation

In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and central nervous system effects.

## Ingestion

May cause discomfort if swallowed. May cause stomach pain or vomiting. May cause nausea, headache, dizziness and intoxication. Fumes from the stomach contents may be inhaled resulting in the same symptoms as inhalation. Congestion of the lungs may occur producing severe shortness of breath.

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### Skin contact

Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping.

### Eye contact

May cause temporary eye irritation.

### **4.3. Indication of any immediate medical attention and special treatment needed**

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

## SECTION 5: FIREFIGHTING MEASURES

### **5.1. Extinguishing media**

#### Extinguishing media

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Use fire-extinguishing media appropriate for surrounding materials.

#### Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

### **5.2. Special hazards arising from the substance or mixture**

#### Hazardous combustion products

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

#### Unusual Fire & Explosion Hazards

May form explosive mixture with air at very high concentration.

#### Specific hazards

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO<sub>2</sub>).

### **5.3. Advice for firefighters**

#### Special Fire Fighting Procedures

No specific fire fighting procedure given.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### **6.1. Personal precautions, protective equipment and emergency procedures**

In case of inadequate ventilation, use respiratory protection. Do not smoke, use open fire or other sources of ignition. Avoid contact with skin and eyes. In case of spills, beware of slippery floors and surfaces. For personal protection, see section 8. Avoid inhalation of vapours and contact with skin and eyes.

### **6.2. Environmental precautions**

Do not discharge into drains, water courses or onto the ground. Prevent entry into drains. Avoid discharge to the aquatic environment. The product should not be dumped in nature but collected and delivered according to agreement with the local authorities.

### **6.3. Methods and material for containment and cleaning up**

For waste disposal, see section 13. Stop leak if possible without risk. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Provide ventilation and confine spill. Do not allow runoff to sewer. Cover large spillages with alcohol-resistant foam. Absorb with inert, damp, non-combustible material, then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations.

### **6.4. Reference to other sections**

For waste disposal, see section 13. For personal protection, see section 8.

## SECTION 7: HANDLING AND STORAGE

### **7.1. Precautions for safe handling**

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Read and follow manufacturer's recommendations. Eliminate all sources of ignition. Keep away from heat, sparks and open flame. Static electricity and formation of sparks must be prevented. Do not eat, drink or smoke when using the product. Avoid inhalation of vapours/spray and contact with skin and eyes. Observe good chemical hygiene practices. Mechanical ventilation or local exhaust ventilation may be required. Provide good ventilation.

**7.2. Conditions for safe storage, including any incompatibilities**

Keep containers tightly closed. Keep upright. Keep in original container. Avoid contact with oxidising agents. Do not store near heat sources or expose to high temperatures.

**7.3. Specific end use(s)**

The identified uses for this product are detailed in Section 1.2.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1. Control parameters**

Name	STD	TWA - 8 Hrs	STEL - 15 Min	Notes
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	WEL		350 mg/m <sup>3</sup>	

WEL = Workplace Exposure Limit.

**8.2. Exposure controls**

Protective equipment



Engineering measures

Observe occupational exposure limits and minimize the risk of inhalation of vapours. Provide adequate ventilation.

Respiratory equipment

If ventilation is insufficient, suitable respiratory protection must be provided. Use respiratory equipment with gas filter, type A2.

Hand protection

For prolonged or repeated skin contact use suitable protective gloves. Be aware that the liquid may penetrate the gloves. Frequent change is advisable. Nitrile gloves are recommended.

Eye protection

Wear approved, tight fitting safety glasses where splashing is probable.

Other Protection

Provide eyewash station. Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures

When using do not eat, drink or smoke. Wash hands after contact. Wash hands at the end of each work shift and before eating, smoking and using the toilet. Wash contaminated clothing before reuse.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

Appearance	Clear liquid.
Colour	Colourless.
Odour	Aromatic hydrocarbons.
Solubility	Immiscible with water

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Initial boiling point and boiling range (°C) 150 - 200°C  
Melting point (°C)  
Scientifically unjustified.  
Relative density 0.785g/cm<sup>3</sup> 20°C  
Vapour density (air=1)  
Scientifically unjustified.  
Vapour pressure <5 kPa 20°C  
Evaporation rate 65 (EtEt=1)  
pH-Value, Conc. Solution  
Scientifically unjustified.  
Viscosity 0.95 m<sup>2</sup>/s 40°C  
Decomposition temperature (°C)  
Scientifically unjustified.  
Odour Threshold, Lower  
Scientifically unjustified.  
Odour Threshold, Upper  
Scientifically unjustified.  
Flash point (°C) >38°C CC (Closed cup).  
Auto Ignition Temperature (°C) >230°C  
C)  
Flammability Limit - Lower(%) 0.7  
Flammability Limit - Upper(%) 7  
Partition Coefficient  
(N-Octanol/Water)  
Scientifically unjustified.  
Explosive properties  
Scientifically unjustified.  
Oxidising properties  
Not determined.

**9.2. Other information**

None.  
Volatility Description Volatile  
Volatile Organic Compound (VOC) 795 g/litre

**SECTION 10: STABILITY AND REACTIVITY****10.1. Reactivity**

Oxidising materials.

**10.2. Chemical stability**

Stable under normal temperature conditions and recommended use.

**10.3. Possibility of hazardous reactions**

Not relevant

**10.4. Conditions to avoid**

Avoid heat, flames and other sources of ignition.

**10.5. Incompatible materials**

Materials To Avoid  
Strong oxidising substances.

**TURPENTINE SUBSTITUTE****10.6. Hazardous decomposition products**

None under normal conditions.

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1. Information on toxicological effects**

Toxic Dose 1 - LD 50  
>15000 mg/kg (oral rat)

**Carcinogenicity:**

This substance has no evidence of carcinogenic properties.

**General information**

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

**Inhalation**

Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia.

**Ingestion**

Harmful: may cause lung damage if swallowed. Pneumonia may be the result if vomited material containing solvents reaches the lungs.

**Skin contact**

Not a skin sensitiser.

**Eye contact**

May cause temporary eye irritation.

**Health Warnings**

Prolonged and repeated contact with solvents over a long period may lead to permanent health problems.

**Route of entry**

Ingestion.

**Medical Considerations**

Risk of chemical pneumonia after aspiration.

**SECTION 12: ECOLOGICAL INFORMATION****Ecotoxicity**

The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment. The product contains volatile, organic compounds which have a photochemical ozone creation potential.

**12.1. Toxicity**

LC 50, 96 Hrs, Fish mg/l	10 - 22mg/l
EC 50, 48 Hrs, Daphnia, mg/l	~22mg/l
IC 50, 72 Hrs, Algae, mg/l	4.1mg/l

**12.2. Persistence and degradability****Degradability**

The product is biodegradable.

**12.3. Bioaccumulative potential**

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Bioaccumulative potential  
No data available on bioaccumulation.  
Partition coefficient  
Scientifically unjustified.

**12.4. Mobility in soil**

Mobility:  
The product is immiscible with water and will spread on the water surface.  
Adsorption/Desorption Coefficient  
Not available.

**12.5. Results of PBT and vPvB assessment**

Not Classified as PBT/vPvB by current EU criteria.

**12.6. Other adverse effects**

Not available.

**SECTION 13: DISPOSAL CONSIDERATIONS**

General information  
Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority.

**13.1. Waste treatment methods**

Confirm disposal procedures with environmental engineer and local regulations.

**SECTION 14: TRANSPORT INFORMATION****14.1. UN number**

UN No. (ADR/RID/ADN)	1300
UN No. (IMDG)	1300
UN No. (ICAO)	1300

**14.2. UN proper shipping name**

Proper Shipping Name	TURPENTINE SUBSTITUTE
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**14.3. Transport hazard class(es)**

ADR/RID/ADN Class	3
ADR/RID/ADN Class	Class 3: Flammable liquids.
ADR Label No.	3
IMDG Class	3
ICAO Class/Division	3
Transport Labels	

**14.4. Packing group**

ADR/RID/ADN Packing group III



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IMDG Packing group III

ICAO Packing group III

**14.5. Environmental hazards****14.6. Special precautions for user**

EMS F-E, S-E

Emergency Action Code 3Y

Hazard No. (ADR) 30

Tunnel Restriction Code (D/E)

**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

**SECTION 15: REGULATORY INFORMATION****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU Legislation

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.

**15.2. Chemical Safety Assessment**

No chemical safety assessment has been carried out.

**SECTION 16: OTHER INFORMATION**

Revision Comments

NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision Date 22/05/2015

Revision 11

Supersedes date 26/01/2012 v10

Safety Data Sheet Status Approved.

Risk Phrases In Full

R10 Flammable

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R67 Vapours may cause drowsiness and dizziness.

Hazard Statements In Full

EUH066 Repeated exposure may cause skin dryness or cracking.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H372 Causes damage to organs &lt;&lt;Organs&gt;&gt; through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.