

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form	: Substance
Trade name	: Turpentine Substitute
Chemical name	: Naphtha (petroleum), hydrodesulfurized heavy, Low boiling point hydrogen treated naphtha, [A complex combination of hydrocarbons obtained from a catalytic hydrodesulfurization process. It consists of hydrocarbons having carbon numbers predominantly in the range of C7 through C12 and boiling in the range of approximately 90°C to 230°C (194°F to 446°F).]
EC no	: 919-446-0
CAS No	: 64742-82-1
REACH registration No	: 01-2119458049-33

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

1.2.1. Relevant identified uses

Intended for general public	
Main use category	: Industrial use, Professional use, Consumer use
Use of the substance/mixture	: manufacture of substances, distribution of substance, formulation & repackaging of substances and mixtures, uses in coatings, use in cleaning agents, lubricant, metal working fluid, use as a fuel, lamp oil, barbeque lighter, functional fluids, road and construction applications, laboratory activities, rubber production and processing, water treatment chemical, polymer processing
Function or use category	: Solvents

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Downstream user

R. K. & J. Jones Ltd
Southery Road
Feltwell
IP26 4EH Thetford - UK
T 01842 828101

1.4. Emergency telephone number

Emergency number : 01842 828101 (8:30-5pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3	H226
Specific target organ toxicity — Single exposure, Category 3, Narcosis	H336
Specific target organ toxicity — Repeated exposure, Category 1	H372
Aspiration hazard, Category 1	H304
Hazardous to the aquatic environment — Chronic Hazard, Category 2	H411
Full text of H statements : see section 16	

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes damage to organs (central nervous system) through prolonged or repeated exposure (inhalation). May cause drowsiness or dizziness. May be fatal if swallowed and enters airways. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)



GHS02

GHS07

GHS08

GHS09

Signal word (CLP)

: Danger

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Hazard statements (CLP)	: 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 (inhalation). H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	: P102 - Keep out of reach of children. P101 - If medical advice is needed, have product container or label at hand. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 - Keep container tightly closed. P260 - Do not breathe fume, mist, spray, vapours. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear eye protection, protective gloves. P301+P310 - IF SWALLOWED: Immediately call a doctor, a POISON CENTER. P331 - Do NOT induce vomiting. P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P312 - Call a doctor, a POISON CENTER if you feel unwell. P370+P378 - In case of fire: Use Dry chemical, carbon dioxide (CO ₂), dry extinguishing powder, dry sand to extinguish. P273 - Avoid release to the environment. P391 - Collect spillage. P403+P235 - Store in a well-ventilated place. Keep cool. P405 - Store locked up. P501 - Dispose of contents and container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
EUH-statements	: EUH066 - Repeated exposure may cause skin dryness or cracking.
Security closing plug for children	: Applicable
Tactile warning	: Applicable

2.3. Other hazards

Other hazards not contributing to the classification	: Vapours may form explosive mixture with air. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours. Vapours inhaled in strong concentration have a narcotic effect on the central nervous system. Repeated exposure may cause skin dryness or cracking.
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SECTION 3: Composition/information on ingredients

3.1. Substances

Name	: Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)
CAS No	: 64742-82-1
EC no	: 919-446-0

Name	Product identifier	%
Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (Note P)	(CAS No) 64742-82-1 (EC no) 919-446-0 (REACH-no) 01-2119458049-33	0 - 100
xylene (Note C)	(CAS No) 1330-20-7 (EC no) 215-535-7 (EC index no) 601-022-00-9	< 10
ethylbenzene	(CAS No) 100-41-4 (EC no) 202-849-4 (EC index no) 601-023-00-4	< 10
mesitylene, 1,3,5-trimethylbenzene	(CAS No) 108-67-8 (EC no) 203-604-4 (EC index no) 601-025-00-5	< 10

Note C : Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

Note P : The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (EINECS No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102)-P260-P262- P301 + P310-P331 (Table 3.1) or the S-phrases (2-)23-24-62 (Table 3.2) shall apply. This note applies only to certain complex oil-derived substances in Part 3.

Full text of H-statements: see section 16

3.2. Mixtures

Not applicable

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SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact	: Rinse skin with water/shower. Remove/Take off immediately all contaminated clothing.
First-aid measures after eye contact	: Rinse eyes with water as a precaution.
First-aid measures after ingestion	: Do not induce vomiting. Call a physician immediately.

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

Symptoms/injuries	: May cause drowsiness or dizziness.
Symptoms/injuries after inhalation	: Vapours inhaled in strong concentration have a narcotic effect on the central nervous system. Depression of the central nervous system, headaches, dizziness, drowsiness, loss of coordination. Loss of consciousness.
Symptoms/injuries after skin contact	: Repeated exposure may cause skin dryness or cracking.
Symptoms/injuries after eye contact	: Burning and temporary redness.
Symptoms/injuries after ingestion	: May be fatal if swallowed and enters airways. Risk of lung oedema. Medical survey within 48 hrs.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	: Do not use extinguishing media containing water. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Flammable liquid and vapour.
Hazardous decomposition products in case of fire	: Toxic fumes may be released.

5.3. Advice for firefighters

Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	: Eliminate every possible source of ignition. Use special care to avoid static electric charges.
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6.1.1. For non-emergency personnel

Emergency procedures	: Ventilate spillage area. No open flames, no sparks, and no smoking. Do not breathe fume, mist, vapours.
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6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	: Collect spillage.
Methods for cleaning up	: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Do not breathe fume, vapours.
Hygiene measures	: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures	: Ground/bond container and receiving equipment.
Storage conditions	: Store in a well-ventilated place. Keep cool. Keep container tightly closed. Store locked up.

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Incompatible materials : Oxidising agents. Strong acids.
Packaging materials : Keep only in original packaging. Stainless steel. Steel.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Turpentine Substitute (64742-82-1)

United Kingdom - Occupational Exposure Limits

Local name	White spirit
WEL TWA (mg/m ³)	350 mg/m ³ Advisory OEL (CEFIC-HESPA)

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (64742-82-1)

United Kingdom - Occupational Exposure Limits

Local name	White spirit
WEL TWA (mg/m ³)	350 mg/m ³ Advisory OEL (CEFIC-HESPA)

xylene (1330-20-7)

United Kingdom - Occupational Exposure Limits

WEL TWA (mg/m ³)	220 mg/m ³
WEL TWA (ppm)	50 ppm
WEL STEL (mg/m ³)	441 mg/m ³
WEL STEL (ppm)	100 ppm
Remark (WEL)	Sk, BMGV

ethylbenzene (100-41-4)

United Kingdom - Occupational Exposure Limits

WEL TWA (mg/m ³)	441 mg/m ³
WEL TWA (ppm)	100 ppm
WEL STEL (mg/m ³)	552 mg/m ³
WEL STEL (ppm)	125 ppm
Remark (WEL)	Sk

Turpentine Substitute (64742-82-1)

DNEL/DMEL (Workers)

Acute - systemic effects, inhalation	570 mg/m ³
Long-term - systemic effects, dermal	44 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	330 mg/m ³

DNEL/DMEL (General population)

Acute - systemic effects, inhalation	570 mg/m ³
Long-term - systemic effects, oral	26 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	71 mg/m ³
Long-term - systemic effects, dermal	26 mg/kg bodyweight/day

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

EN 374 - protective gloves. EN 166 - eye protection.

Hand protection:

Protective gloves

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Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Disposable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	>0.55mm		EN ISO 374

Eye protection:

Safety glasses

Type	Use	Characteristics	Standard
Safety glasses	Droplet	with sideshields	EN 166

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Device	Filter type	Condition	Standard
Full face mask, Disposable half mask	Type P2, Type A - High-boiling (>65 °C) organic compoundsA		

Personal protective equipment symbol(s):



Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Clear, colorless liquid.
Colour	: Colourless.
Odour	: Hydrocarbon.
Odour threshold	: No data available
pH	: 5.5 - 6.5
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: 57
Melting point	: Not applicable
Freezing point	: < -20 °C
Boiling point	: 135 - 200 °C
Flash point	: 38.5 °C
Auto-ignition temperature	: > 200 °C
Decomposition temperature	: No data available
Flammability (solid, gas)	: Flammable in the presence of open flames, sparks, static discharge and heat.
Vapour pressure	: 0.23 kPa
Relative vapour density at 20 °C	: No data available
Relative density	: 720
Density	: 785 kg/m ³
Solubility	: Insoluble in water.
Log Pow	: No data available
Viscosity, kinematic	: 0.95 mm ² /s @ 40 degrees centigrade
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Lower explosive limit (LEL)	: 0.6 vol %
Upper explosive limit (UEL)	: 7.2 vol %

9.2. Other information

No additional information available

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SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition. Take precautionary measures against static discharge.

10.5. Incompatible materials

Oxidizing agent.

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified

Acute toxicity (dermal) : Not classified

Acute toxicity (inhalation) : Not classified

Turpentine Substitute (64742-82-1)	
LD50 oral rat	> 15000 mg/kg bodyweight
LD50 dermal rat	> 3400 mg/kg bodyweight
LD50 dermal rabbit	> mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	> 13100 mg/l/4h

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (64742-82-1)	
LD50 oral rat	> 15000 mg/kg bodyweight
LD50 dermal rat	> 3400 mg/kg bodyweight
LD50 dermal rabbit	> mg/kg
LC50 inhalation rat (Vapours - mg/l/4h)	> 13100 mg/l/4h

Skin corrosion/irritation : Not classified

pH: 5.5 - 6.5

Serious eye damage/irritation : Not classified

pH: 5.5 - 6.5

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

STOT-single exposure : May cause drowsiness or dizziness.

STOT-repeated exposure : Causes damage to organs (central nervous system) through prolonged or repeated exposure (inhalation).

Aspiration hazard : May be fatal if swallowed and enters airways.

Turpentine Substitute (64742-82-1)	
Viscosity, kinematic	0.95 mm ² /s @ 40 degrees centigrade
Hydrocarbon	Yes
Other information	: Likely routes of exposure: inhalation.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.

Acute aquatic toxicity : Not classified

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

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Turpentine Substitute (64742-82-1)	
LC50 fish 1	10 - 30 mg/l Rainbow Trout
EC50 Daphnia 1	10 - 22 mg/l
NOEC chronic fish	0.13 mg/l
NOEC chronic crustacea	0.28 mg/l
NOEC chronic algae	0.22 mg/l

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (64742-82-1)	
LC50 fish 1	10 - 30 mg/l Rainbow Trout
EC50 Daphnia 1	10 - 22 mg/l
NOEC chronic fish	0.13 mg/l
NOEC chronic crustacea	0.28 mg/l
NOEC chronic algae	0.22 mg/l

12.2. Persistence and degradability

Turpentine Substitute (64742-82-1)	
Biodegradation	74.7 %

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) (64742-82-1)	
Biodegradation	74.7 %

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product/Packaging disposal recommendations : Beware of residues or vapours which remain in the drums. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Additional information : Flammable vapours may accumulate in the container.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA
14.1. UN number		
UN 1300	UN 1300	UN 1300
14.2. UN proper shipping name		
TURPENTINE SUBSTITUTE	TURPENTINE SUBSTITUTE	TURPENTINE SUBSTITUTE
Transport document description		
UN 1300 TURPENTINE SUBSTITUTE, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1300 TURPENTINE SUBSTITUTE, 3, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1300 TURPENTINE SUBSTITUTE, 3, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)		
3	3	3

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14.4. Packing group		
III	III	III
14.5. Environmental hazards		
Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes
No supplementary information available		

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: F1
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T2
Portable tank and bulk container special provisions (ADR)	: TP1
Tank code (ADR)	: LGBF
Vehicle for tank carriage	: FL
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Special provisions for carriage - Operation (ADR)	: S2
Hazard identification number (Kemler No.)	: 30
Orange plates	:



Tunnel restriction code (ADR)	: D/E
EAC code	: 3YE

Transport by sea

Special provisions (IMDG)	: 223
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001, LP01
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T2
Tank special provisions (IMDG)	: TP1
EmS-No. (Fire)	: F-E
EmS-No. (Spillage)	: S-E
Stowage category (IMDG)	: A

Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y344
PCA limited quantity max net quantity (IATA)	: 10L
PCA packing instructions (IATA)	: 355
PCA max net quantity (IATA)	: 60L
CAO packing instructions (IATA)	: 366
CAO max net quantity (IATA)	: 220L
Special provisions (IATA)	: A3
ERG code (IATA)	: 3L

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Turpentine Substitute is not on the REACH Candidate List

Turpentine Substitute is not on the REACH Annex XIV List

Organic solvent

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) is not subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Hydrocarbons, C9-C12, n-alkanes, isoalkanes, cyclics, aromatics (2-25%) is not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Full text of H- and EUH-statements:	
Acute Tox. 4 (Dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4
Aquatic Chronic 2	Hazardous to the aquatic environment — Chronic Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
STOT RE 2	Specific target organ toxicity — Repeated exposure, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H225	Highly flammable liquid and vapour
H226	Flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H312	Harmful in contact with skin
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H372	Causes damage to organs through prolonged or repeated exposure
H373	May cause damage to organs through prolonged or repeated exposure
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects
EUH066	Repeated exposure may cause skin dryness or cracking

SDS EU (REACH Annex II)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product

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