

Product Data Sheet



Holzöl Floor-Oil

Clear Oils			
Code	Description	Code	Description
7FL/00/10	Holzöl Floor-Oil Clear 10% Sheen	7FL/04/10	Holzöl Floor-Oil Cherry 10% Sheen
7FL/00/30	Holzöl Floor-Oil Clear 30% Sheen	7FL/05/10	Holzöl Floor-Oil Honey 10% Sheen
7FL/01/10	Holzöl Floor-Oil Walnut 10% Sheen	7FL/06/10	Holzöl Floor-Oil White 10% Sheen
7FL/02/10	Holzöl Floor-Oil Oak 10% Sheen	Thinners	R047 – White Spirits
7FL/03/10	Holzöl Floor-Oil Grey 10% Sheen		

Technical Data	Holzöl Floor-Oils are formulated on a blend of natural oils in combination with urethane for use on all types of solid and engineered flooring.
Properties	Holzöl Floor-Oil is a natural oil/hybrid resins blend designed to achieve a tough floor finish and enhance grain definition. Water & dirt repellent, soft to the touch yet supremely durable. Suitable for all domestic and commercial floors. An anti-slip Floor-Oil and a UV cured Floor-Oil for mass production, are also available.
Mixing Guidelines	Supplied ready for use (RFU) but can be thinned up to 15% by volume with the recommended thinner, R047, if required.
Typical Handling	Drying Time: 3 – 4 hours for clears, 4 -6 hours for tinted/pigmented oils. Recoat Time: 3 - 4 hours for clears, 4 -6 hours for tinted/pigmented oils. These times are dependant amounts applied, the absorbency of the wooden substrate and application conditions.
Cleaning	R047 – White Spirit should be used for cleaning equipment.
Coverage	Approximately 12 - 28m ² per 1 litre dependent upon the application method and absorbency and surface quality of the timber being coated.
Colour Matching	Morrells provides a bespoke colour matching service for the Holzöl Floor-Oil. All requests for special colours should be accompanied by a sufficient quantity of the timber to be used for the actual job plus full details of application method and finishing system to be employed.
System Guidelines	Morrells recommends the following guidance for use of these products : The surface of the timber to be coated should be clean dry and free from oils, greases, waxes, silicones, old finishes etc. **See below for sanding regime. Clear Finishes: <ul style="list-style-type: none"> ○ Apply Holzöl Floor-Oil with a short mohair roller/T-Bar or oil brush at 80 ml/m².



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Registered Office: Morrells Woodfinishes Limited. Company no. 785935 VAT. Reg No GB 712 5048 66



	<ul style="list-style-type: none"> ○ Allow to dry for 3 - 4 hours, then lightly abrade with a red Scotchbrite pad (or equivalent) on a rotary buffer. ○ Apply a second coat of Holzöl Floor-Oil and allow 3 – 4 hours to dry. ○ Apply further coats as required, ensuring light abrading between coats to aid adhesion and improve the finish. <p>A natural finish can be readily achieved with 2 – 3 coats of the Holzöl Floor-Oil.</p> <p>Wood colour and pigmented finishes:</p> <ul style="list-style-type: none"> ○ After sanding and cleaning, apply the Holzöl Floor-Oil with either roller or brush, and even out either by buffing by hand or in large areas a light weight buffer with a white pad. ○ Tinted/pigmented oils should not be applied in straight lines and left as a “tracking” effect will occur. ○ The first coat should be left for 4 -6 hours. Heavily pigmented colours may be slower drying. ○ A second coat of either wood colour /pigmented colour can be applied to achieve a more intense colour, or a coat of Holzöl Floor-Oil clear can be applied in order to protect the colour. ○ To increase protection of wood and pigmented colours due to foot traffic a clear coat of Holzöl Floor-Oil 10% or 30% sheen can be applied. <p>Using these products in systems outside these guidelines can lead to immediate and latent problems with the integrity of the finish.</p> <ul style="list-style-type: none"> ○ Belt sander, edge sander and mono disc sanding machines required. ○ Sand in the direction of the grain in even strokes up and down. ○ For uneven floors (cupping) or block work, please consult technical services. ○ 1st pass should be completed with 24 or 36 grit belts and then the edge sanded with the identical grit. ○ 2nd pass with 50 or 60 grit and the edge sanded with identical grits. ○ 3rd pass with 80 and 100 grit and edge sanded with identical grits. ○ Final sanding with a mono disc or trio sander will even out the edge and belt sanding particularly with mosaic or herringbone patterns. <p>Important note: The floor should be swept and vacuumed between sanding grits.</p>
<p>Maintenance</p>	<ul style="list-style-type: none"> ○ The use of good quality entrance mats and furniture pads are recommended to avoid damage to the finish. ○ Surfaces should be swept or vacuumed regularly to avoid dust and grit build up as this would be abrasive to the surface and before routine maintenance. ○ Pets can also traffic grit and dirt on to a floor. Pets claws should trimmed regularly to reduce scratches/indentation to the finish. ○ The finish should be left for a minimum of 14 days before “wet cleaning”.



	<ul style="list-style-type: none"> ○ To re-vitalise the appearance of flooring damaged by scratch and scuff marks, first ensure the floor is cleaned and buffed dry then Holzöl Floor-Oil can be applied by pad across the surface, this can be buffed with an oil cloth. ○ If the floor is finished with either wood colour or pigmented colour worn areas should be refinished prior to applying a fresh coat of clear Holzöl Floor-Oil.
<p>Important Information</p>	<ul style="list-style-type: none"> ➤ Designed for manual (roller, pad, T-bar, brush etc.) application. ➤ Use only the recommended thinner. Use of non-recommended thinner can cause uneven/patchy drying. ➤ Always test the product on a spare surface or inconspicuous area to assess compatibility, colour and finish. ➤ Colours are only able to be an approximate representation due to the variation in substrate and application methods. ➤ Sawdust, cloths, brushes, rollers, papers and similar products containing wet product may cause spontaneous combustion. Either allow to fully dry or drench with water before disposal. ➤ Product should be stored above 5°C and protected from frost. ➤ Optimum application is achieved between 20°C and 25°C with good air movement and ventilation. ➤ Finished products should not be subjected to environments with temperatures of < 2°C. ➤ Meets the VOC requirements of 2004/42/EC, Annex II (cat A/i).
<p>Health & Safety</p>	<p>Reference should be made to the appropriate MSDS for these products, which can be found at www.morrells.co.uk</p> <p>The use of appropriate personal protective equipment (PPE) is recommended.</p>

The information provided on this information sheet is based on the best of our knowledge and experience, is given in good faith and should only be regarded as recommendations. No guarantee should be inferred and customers are advised to carry out their own tests under local conditions.

For further technical information contact our Technical Support Team on 0161 406 5300.



SAFETY DATA SHEET
HOLZOL Floor Oil

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

1.1. Product identifier

Product Name HOLZOL Floor Oil

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: Morrells Woodfinishes Ltd
Wellington Works
Mill Lane, Woodley
Stockport
England
SK6 1RN
0161 406 5300
0161 406 6276
enquiries@morrells.co.uk

1.4. Emergency telephone number

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical	Flam. Liq. 3 - H226
Health	EUH066; Asp. Tox. 1 - H304
Environmental	Not classified.

Classification (1999/45)

Xn;R65. R10, R66.

2.2. Label elements

Contains: NAPHTHA PETROLEUM TREATED HEAVY

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



Signal Word Danger

Hazard Statements

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.

Precautionary Statements

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

Supplementary Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/.../equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P303+361+353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

HOLZOL Floor Oil

P331	Do NOT induce vomiting.
P370+378	In case of fire: Use ... for extinction.
P403+235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.
P501	Dispose of contents/container to ...

Supplemental Label Information

EUH066	Repeated exposure may cause skin dryness or cracking.
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2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

NAPHTHA PETROLEUM TREATED HEAVY		30-60%
CAS-No.: 64742-48-9	EC No.: 265-150-3	
Classification (EC 1272/2008) EUH066 Asp. Tox. 1 - H304	Classification (67/548) Xn;R65. R66.	

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

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

Inhalation.

Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen.

Ingestion

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Drink plenty of water. Get medical attention immediately! Provide rest, warmth and fresh air.

Skin Contact

Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye Contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

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

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

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing Media

Fire can be extinguished using: Foam. Dry chemicals, sand, dolomite etc.

5.2. Special hazards arising from the substance or mixture

5.3. Advice for firefighters

Special Fire Fighting Procedures

Avoid breathing fire vapours. 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.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

6.2. Environmental precautions

HOLZOL Floor Oil

6.3. Methods and material for containment and cleaning up

Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers. Do not contaminate water sources or sewer.

6.4. Reference to other sections

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container.

7.3. Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
NAPHTHA PETROLEUM TREATED HEAVY	WEL	148 ppm	1200 mg/m ³			

WEL = Workplace Exposure Limit.

Ingredient Comments

WEL = Workplace Exposure Limits

8.2. Exposure controls

Protective Equipment



Engineering Measures

Provide adequate general and local exhaust ventilation.

Respiratory Equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit.

Hand Protection

Use protective gloves.

Eye Protection

Wear approved safety goggles.

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.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Liquid
Flash Point (°C)	>23 T > 60

9.2. Other information

Volatile Organic Compound (VOC)	435 g/litre
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SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

10.2. Chemical stability

Stable under normal temperature conditions.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Avoid contact with acids and oxidising substances.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Health Warnings

INHALATION. Prolonged inhalation of high concentrations may damage respiratory system. SKIN CONTACT. Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Prolonged or repeated exposure may cause severe irritation. EYE CONTACT. May cause severe irritation to eyes. INGESTION. The product causes irritation of mucous membranes and may cause abdominal discomfort if swallowed.

Target Organs

Skin Eyes Respiratory system, lungs

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

No data on possible environmental effects have been found.

12.1. Toxicity

12.2. Persistence and degradability

12.3. Bioaccumulative potential

12.4. Mobility in soil

12.5. Results of PBT and vPvB assessment

12.6. Other adverse effects

SECTION 13: DISPOSAL CONSIDERATIONS

General Information

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN) 1263

14.2 UN Proper Shipping Name

Proper Shipping Name PAINT or PAINT RELATED PRODUCTS

14.3 Transport hazard class(es)

ADR/RID/ADN Class 3

ADR/RID/ADN Class Class 3: Flammable liquids.

ADR Label No. 3

Transport Labels



14.4. Packing group

ADR/RID/ADN Packing group 3(b)

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant

No.

14.6. Special precautions for user

EMS 3-07

Emergency Action Code 3[Y]E

Hazard No. (ADR) 33

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

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

Environmental Listing

No listing noted.

Statutory Instruments

The Classification, Labelling and Packaging of substances and mixtures Regulations EC 1272/2008 (CLP) and amendments

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.

Eu Legislation

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.

15.2. Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

Risk Phrases In Full

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

Hazard Statements In Full

EUH066 Repeated exposure may cause skin dryness or cracking.

H304 May be fatal if swallowed and enters airways.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.

SAFETY DATA SHEET
R047 Turps Sub (White Spirit)

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

1.1. Product identifier

Product Name R047 Turps Sub (White Spirit)
REACH Registration Number 01-2119458049-33-xxxx
EC No. 919-446-0

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

Identified uses Industrial wood coating.

1.3. Details of the supplier of the safety data sheet

Supplier: Morrells Woodfinishes Ltd
Wellington Works
Mill Lane, Woodley
Stockport
England
SK6 1RN
0161 406 5300
0161 406 6276
enquiries@morrells.co.uk

1.4. Emergency telephone number

0161 406 5300 DURING OFFICE HOURS

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical Flam. Liq. 3 - H226
Health EUH066;STOT Single 3 - H336;STOT Rep. 1 - H372;Asp. Tox. 1 - H304
Environmental Aquatic Chronic 2 - H411

Classification (1999/45)

Xn;R65. N;R51/53. R10, R66, R67.

2.2. Label elements

EC No. 919-446-0
Contains: low boiling point hydrogen treated naphtha
Label In Accordance With (Ec) No. 1272/2008



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 through prolonged or repeated exposure in contact with skin.
H411 Toxic to aquatic life with long lasting effects.

R047 Turps Sub (White Spirit)

Supplementary Precautionary Statements

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P233	Keep container tightly closed.
P240	Ground/bond container and receiving equipment.
P241	Use explosion-proof electrical/ventilating/lighting/.../equipment.
P242	Use only non-sparking tools.
P243	Take precautionary measures against static discharge.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P264	Wash ... thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
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.
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.
P370+378	In case of fire: Use ... for extinction.
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.
P405	Store locked up.
P501	Dispose of contents/container to ...

Supplemental Label Information

EUH066	Repeated exposure may cause skin dryness or cracking.
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2.3. Other hazards

This product does not contain any PBT or vPvB Substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

low boiling point hydrogen treated naphtha	60-100%
CAS-No.: 64742-82-1	EC No.: 265-185-4
Classification (EC 1272/2008) Flam. Liq. 3 - H226 EUH066 STOT Single 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411	Classification (67/548) Xn;R65. N;R51/53. R10,R66,R67.

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

REACH Registration Number 01-2119458049-33-xxxx

EC No. 919-446-0

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Information

Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.

R047 Turps Sub (White Spirit)

Inhalation.

Move the exposed person to fresh air at once. Get medical attention. Provide rest, warmth and fresh air. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Do Not use mouth to mouth ventilation

Ingestion

DO NOT INDUCE VOMITING! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Drink plenty of water. Get medical attention immediately! Provide rest, warmth and fresh air.

Skin Contact

Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention promptly if symptoms occur after washing.

Eye Contact

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes and get medical attention.

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

Inhalation.

Vapours may cause headache, fatigue, dizziness and nausea. Difficulty in breathing.

Ingestion

Central nervous system depression. Nausea, vomiting.

Skin Contact

Prolonged contact may cause redness, irritation and dry skin.

Eye Contact

Vapour, spray or dust may cause chronic eye irritation or eye damage.

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

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing Media

Extinguish with alcohol-resistant foam, carbon dioxide or dry powder.

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

Vapours are heavier than air and may spread near ground to sources of ignition.

Specific Hazards

The product is flammable, and heating may generate vapours which may form explosive vapour/air mixtures.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Avoid breathing fire vapours. 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.

Protective Measures In Fire

Self contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Take precautionary measures against static discharges. Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Do not smoke, use open fire or other sources of ignition.

6.2. Environmental precautions

Avoid discharge into drains, water courses or onto the ground. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

6.3. Methods and material for containment and cleaning up

Wear necessary protective equipment. Absorb in vermiculite, dry sand or earth and place into containers. Collect in containers and seal securely. Remove containers and flush area with water.

6.4. Reference to other sections

R047 Turps Sub (White Spirit)

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Ventilate well, avoid breathing vapours. Use approved respirator if air contamination is above accepted level. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. Avoid inhalation of vapours/spray and contact with skin and eyes.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep in original container. Ground container and transfer equipment to eliminate static electric sparks. Flammable/combustible - Keep away from oxidisers, heat and flames.

Storage Class

Flammable liquid storage.

7.3. Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Ingredient Comments

WEL = Workplace Exposure Limits DNEL = Derived No Effect Level

DNEL	Industry	Dermal	44	mg/kg/day
DNEL	Industry	Inhalation.	330	mg/kg/day

8.2. Exposure controls

Protective Equipment



Engineering Measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory Equipment

No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Use respiratory equipment with gas filter, type A2.

Hand Protection

Use protective gloves.

Eye Protection

Wear approved safety goggles.

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.

Skin Protection

Wear apron or protective clothing in case of contact.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Clear liquid
Colour	Colourless to pale yellow
Odour	Pungent
Initial Boiling Point and Boiling Range:	135-220
Relative Density	.774 to 0.79 15c
Vapour Density (Air=1)	>1
Vapour Pressure	<2.7 kPa 20c
Evaporation Rate	0.13 (EtEt=1)
Flash Point (°C)	39C

R047 Turps Sub (White Spirit)

Flammability Limit - Lower(%) 0.6
Flammability Limit - Upper(%) 8

9.2. Other information

Volatile Organic Compound (VOC) 780 g/litre

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Not determined.

10.4. Conditions to avoid

Avoid contact with acids and oxidising substances. Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight. Avoid excessive heat for prolonged periods of time.

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances.

10.6. Hazardous decomposition products

Fire creates: Toxic gases/vapours/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). Carbon.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute Toxicity (Oral LD50)	> 15000 mg/kg Rat
Acute Toxicity (Dermal LD50)	> 3400 mg/kg Rabbit
Acute Toxicity (Inhalation LC50)	13.1 mg/l (vapours) Rat
ATE (Inhalation)	13.1 mg/l (vapours)

Inhalation

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

Ingestion.

Liquid irritates mucous membranes and may cause abdominal pain if swallowed. Swallowing concentrated chemical may cause severe internal injury. Harmful: may cause lung damage if swallowed.

Skin Contact

Acts as a defatting agent on skin. May cause cracking of skin, and eczema. Prolonged or repeated exposure may cause severe irritation.

Eye Contact

May cause severe irritation to eyes.

Target Organs

Skin Eyes Respiratory system, lungs

Specific Effects

May cause damage to the kidneys.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

The product contains a substance which is toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

12.1. Toxicity

LC 50, 96 Hrs, Fish mg/l	10-30 mg/l
EC 50, 48 Hrs, Daphnia, mg/l	10-22 mg/l
IC 50, 72 Hrs, Algae, mg/l	4.6-10 mg/l

12.2. Persistence and degradability

Degradability:

The product is expected to be biodegradable.

R047 Turps Sub (White Spirit)

12.3. Bioaccumulative potential

Bioaccumulative Potential:

No data available on bioaccumulation.

12.4. Mobility in soil

Mobility:

The product is insoluble in water and will spread on the water surface.

12.5. Results of PBT and vPvB assessment

This product does not contain any PBT or vPvB Substances.

12.6. Other adverse effects

Not determined.

SECTION 13: DISPOSAL CONSIDERATIONS

General Information

When handling waste, consideration should be made to the safety precautions applying to handling of the product.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements.

SECTION 14: TRANSPORT INFORMATION

14.1. UN number

UN No. (ADR/RID/ADN) 1300

14.2 UN Proper Shipping Name

Proper Shipping Name TURPENTINE SUBSTITUTE (White Spirit)

14.3 Transport hazard class(es)

ADR/RID/ADN Class 3

ADR/RID/ADN Class Class 3: Flammable liquids.

ADR Label No. 3

Transport Labels



14.4. Packing group

ADR/RID/ADN Packing group III

14.5. Environmental hazards

Environmentally Hazardous Substance/Marine Pollutant



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

Cat Y

R047 Turps Sub (White Spirit)

SECTION 15: REGULATORY INFORMATION

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

Uk Regulatory References

The Control of Substances Hazardous to Health Regulations 2002 (S.I 2002 No. 2677) with amendments.

Statutory Instruments

The Classification, Labelling and Packaging of substances and mixtures Regulations EC 1272/2008 (CLP) and amendments

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).

15.2. Chemical Safety Assessment

SECTION 16: OTHER INFORMATION

Revision Date 03/12/2015

Revision 2

Supersedes Date 26/01/2012

Risk Phrases In Full

R10 Flammable.

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

R65 Harmful: may cause lung damage if swallowed.

R66 Repeated exposure may cause skin dryness or cracking.

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.

H411 Toxic to aquatic life with long lasting effects.

Disclaimer

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.