

Product Data Sheet



holzöl Weather-Stain

| Code | Description | Code | Description |
|-----------|------------------------------------|-----------|--------------------------------------|
| 7WS/01/10 | holzöl Weather-Stain Teak | 7WS/04/10 | holzöl Weather-Stain Mahogany |
| 7WS/02/10 | holzöl Weather-Stain Oak | 7WS/05/10 | holzöl Weather-Stain Ebony |
| 7WS/03/10 | holzöl Weather-Stain Walnut | 7WS/06/10 | holzöl Weather-Stain Grey |

| | |
|--------------------------|--|
| Technical Data | <p>holzöl Weather-Stain is a natural oil and resin based non peeling impregnating finish.</p> <p>Can be used both internally and externally.</p> |
| Properties | <p>holzöl Weather-Stain is a natural oil and resin based non peeling impregnating finish. It contains UV-filters that offer excellent resistance to weathering and sunlight along with active ingredients to protect against mould and fungi.</p> <p>Pleasant range of natural semi-transparent colours.</p> |
| Mixing Guidelines | Supplied ready for use (RFU). |
| Typical Handling | <p>Recoat Time 4 – 6 hours, Drying Time: 12 - 24 hours.</p> <p>These times are dependant amounts applied, the absorbency of the wooden substrate and application conditions.</p> |
| Cleaning | R047 - White Spirit should be used for cleaning equipment. |
| Coverage | Approximately 12 - 28m ² per litre depending upon the application method, absorbency and surface quality of the timber being coated. |
| Colour Matching | <p>Morrells provides a bespoke colour matching service for holzöl Weather-Stain.</p> <p>All requests for special colours should be accompanied by a sufficient quantity of the timber to be used for the actual job plus details of the application method and the number of coats to be applied.</p> |
| System Guidelines | <p>Morrells recommends the following guidance for use of these products:</p> <p>Before starting make sure the surfaces of the timber to be coated should be clean, dry and free from oils, greases, waxes, silicones, old finishes etc.</p> <p>Typical Coat on Coat Finish:</p> <ul style="list-style-type: none"> ○ Apply a thin, even coat of holzöl Weather-Stain Oil, by brush or roller. Apply the oil in the direction of the wood grain. ○ Allow 10 - 12 hours to dry, then lightly abrade with 220/240 silicon carbide abrasive. |



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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"> ○ Apply a second coat of holzöl Weather-Stain Oil, as above. <p>Typical Natural Stain Finish:</p> <ul style="list-style-type: none"> ○ Apply a thin, even coat of holzöl Weather-Stain Oil, by brush or roller. Apply the oil in the direction of the wood grain. ○ Allow 10 - 12 hours to dry, then lightly abrade with 220/240 silicon carbide abrasive. ○ Apply a coat of holzöl Weather-Oil Clear, as above. <p>Using these products in systems outside these guidelines can lead to immediate and latent problems with the integrity of the finish.</p> |
| Maintenance | <p>The holzöl Weather-Stain should be maintained using a clean, lightly dampened cloth.</p> <p>If the finish becomes "tired" looking or damaged, abrade with 240/320 silicon carbide abrasive and apply a further coat of holzöl Weather-Stain.</p> |
| Important Information | <ul style="list-style-type: none"> ➤ Designed for manual (brush or roller) application. ➤ 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, papers and similar products containing wet product may cause spontaneous combustion. Either allow to fully dry or drench in 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. ➤ Meets the VOC requirements of 2004/42/EC, Annex II(cat A/f). |
| Health & Safety | <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 protection 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 Weather Stain

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

1.1. Product identifier

Product Name HOLZOL Weather Stain
Product No. 7WS/0*/10 Range

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

Identified uses Oil finish for wood

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 | Not classified. |
| Health | EUH066 |
| Environmental | Not classified. |

Classification (1999/45)

R66.

2.2. Label elements

Contains: NAPHTHA PETROLEUM TREATED HEAVY

Precautionary Statements

| | |
|------|---|
| P101 | If medical advice is needed, have product container or label at hand. |
| P102 | Keep out of reach of children. |

Supplemental Label Information

| | |
|--------|---|
| EUH066 | Repeated exposure may cause skin dryness or cracking. |
|--------|---|

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) | Classification (67/548) | |
| EUH066 | Xn;R65. | |
| Asp. Tox. 1 - H304 | 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

Inhalation.

Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion

NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Rinse mouth thoroughly. Get medical attention if any discomfort continues.

Skin Contact

Remove affected person from source of contamination. Remove contaminated clothing. Wash the skin immediately with soap and water. Get medical attention if any discomfort continues.

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. Get medical attention if any discomfort continues.

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

This product is not flammable. Extinguish with 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

Unusual Fire & Explosion Hazards

If heated, volume and pressure increases strongly, resulting in explosion of container.

5.3. Advice for firefighters

Special Fire Fighting Procedures

Water spray should be used to cool containers. Keep run-off water out of sewers and water sources. Dike for water control.

Protective Measures In Fire

Selection of respiratory protection for fire fighting: follow the general fire precautions indicated in the workplace.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions

Do not allow to enter drains, sewers or watercourses. Contain spillages with sand, earth or any suitable adsorbent material.

6.3. Methods and material for containment and cleaning up

Stop leak if possible without risk. Absorb in vermiculite, dry sand or earth and place into containers. Do not contaminate water sources or sewer.

6.4. Reference to other sections

Collect and dispose of spillage as indicated in section 13. Wear protective clothing as described in Section 8 of this safety data sheet.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Avoid spilling, skin and eye contact. Keep away from heat, sparks and open flame. Risk of vapour concentration on the floor and in low-lying areas. Always remove oil with soap and water or skin cleaning agent, never use organic solvents. Do not use oil-contaminated clothing or shoes, and do not put rags moistened with oil into pockets.

7.2. Conditions for safe storage, including any incompatibilities

Store in tightly closed original container in a dry, cool and well-ventilated place. Keep away from heat, sparks and open flame.

7.3. Specific end use(s)

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

HOLZOL Weather Stain

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.

8.2. Exposure controls

Protective Equipment



Process Conditions

Use engineering controls to reduce air contamination to permissible exposure level.

Engineering Measures

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

Respiratory Equipment

No specific recommendation made, but respiratory protection may still be required under exceptional circumstances when excessive air contamination exists.

Hand Protection

Use suitable protective gloves if risk of skin contact. Protective gloves should be used if there is a risk of direct contact or splash. For prolonged or repeated skin contact use suitable protective gloves.

Eye Protection

If risk of splashing, wear safety goggles or face shield. Wear splash-proof eye goggles to prevent any possibility of eye contact.

Other Protection

Wear appropriate clothing to prevent any possibility of skin 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. Wash promptly if skin becomes wet or contaminated. Promptly remove any clothing that 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) | >60 |

9.2. Other information

| | |
|---------------------------------|-------------|
| Volatile Organic Compound (VOC) | 126 g/litre |
|---------------------------------|-------------|

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

No specific reactivity hazards associated with this product.

10.2. Chemical stability

Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

10.4. Conditions to avoid

Avoid excessive heat for prolonged periods of time. Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

10.6. Hazardous decomposition products

Fire creates: Carbon monoxide (CO). Carbon dioxide (CO₂).

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

HOLZOL Weather Stain

| | |
|-------------------------------------|--|
| Toxic Dose 1 - Ld 50 | 5000 mg/kg (oral rat) Naphtha (Petrol) Hydrotreated heavy |
| Acute Toxicity (Dermal LD50) | 2000 mg/kg Rabbit |

Inhalation

In high concentrations, vapours may irritate throat and respiratory system and cause coughing.

Ingestion.

May cause discomfort if swallowed.

Skin Contact

Repeated exposure may cause skin dryness or cracking.

Eye Contact

Spray and vapour in the eyes may cause irritation and smarting.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Not regarded as dangerous for the environment.

12.1. Toxicity

| | |
|-------------------------------------|-----|
| LC 50, 96 Hrs, Fish mg/l | 8.2 |
| EC 50, 48 Hrs, Daphnia, mg/l | 4.5 |
| IC 50, 72 Hrs, Algae, mg/l | 3.1 |

12.2. Persistence and degradability

Degradability:

The product is biodegradable, but it must not be discharged into drains without permission from the authorities.

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

| | |
|-----------------------------|-----------------|
| Road Transport Notes | Not Classified |
| Rail Transport Notes | Not classified. |
| Sea Transport Notes | Not classified. |
| Air Transport Notes | Not classified. |

14.1. UN number

14.2 UN Proper Shipping Name

14.3 Transport hazard class(es)

14.4. Packing group

14.5. Environmental hazards

14.6. Special precautions for user

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

HOLZOL Weather Stain

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. Safety Data Sheets for Substances and Preparations.

Guidance Notes

Workplace Exposure Limits EH40.

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.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Date 17/09/2015

Revision 1

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. |
|--------|---|

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.

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