



## SAFETY DATA SHEET

### FIRWOOD 114 LOW ODOUR THINNERS

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

##### 1.1. Product identifier

Product name	FIRWOOD 114 LOW ODOUR THINNERS
Product number	114
Container size	2.5 litre container
CAS number	64742-47-8
EC number	265-149-8

##### 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	Firwood Paints Ltd. Oakenbottom Road Bolton BL2 6DP T: +44 (0)1204 525231 F: +44(0)1204 362522
Contact person	e-mail: sales@firwood.co.uk

##### 1.4. Emergency telephone number

Emergency telephone	+44 (0) 1204 525231 (08.00-17.00)
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#### SECTION 2: Hazards identification

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

###### Classification (EC 1272/2008)

Physical hazards	Flam. Liq. 3 - H226
Health hazards	Asp. Tox. 1 - H304
Environmental hazards	Not Classified

Classification (67/548/EEC or 1999/45/EC)	Xn; R65. R10
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Environmental	The product is not expected to be hazardous to the environment.
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##### 2.2. Label elements

EC number	265-149-8
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## FIRWOOD 114 LOW ODOUR THINNERS

### Pictogram



### 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.  
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P331 Do NOT induce vomiting.  
P501 Dispose of contents/ container in accordance with national regulations.

### Contains

DE-AROMATISED WHITE SPIRIT

### Supplementary precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
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.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

### 2.3. Other hazards

#### SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>DE-AROMATISED WHITE SPIRIT</b>		<b>60-100%</b>
CAS number: 64742-47-8	EC number: 265-149-8	
<b>Classification</b>	<b>Classification (67/548/EEC or 1999/45/EC)</b>	
Flam. Liq. 3 - H226	Xn;R65. R10,R66.	
Asp. Tox. 1 - H304		

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 affected person to fresh air at once. Get medical attention if any discomfort continues.

#### Inhalation

Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues.

#### Ingestion

Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Get medical attention immediately.

#### Skin contact

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

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**Eye contact** Remove any contact lenses and open eyelids wide apart. 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

**Suitable extinguishing media** Extinguish with the following media: Foam. Dry chemicals, sand, dolomite etc.

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

**Specific hazards** The product is flammable. Heating may generate flammable vapours. Thermal decomposition or combustion products may include the following substances: Toxic gases or vapours.

### 5.3. Advice for firefighters

**Protective actions during firefighting** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Cool containers exposed to flames with water until well after the fire is out.

**Special protective equipment for firefighters** Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## SECTION 6: Accidental release measures

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

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

### 6.2. Environmental precautions

**Environmental precautions** Avoid discharge into drains or watercourses or onto the ground.

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

**Methods for cleaning up** Eliminate all sources of ignition. No smoking, sparks, flames or other sources of ignition near spillage. Provide adequate ventilation. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Absorb spillage with non-combustible, absorbent material. Avoid the spillage or runoff entering drains, sewers or watercourses.

### 6.4. Reference to other sections

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

**Usage precautions** Keep away from heat, sparks and open flame. Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid inhalation of vapours. Use approved respirator if air contamination is above an acceptable level.

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

**Storage precautions** Keep away from oxidising materials, heat and flames. Store in tightly closed original container in a dry, cool and well-ventilated place. Keep only in the original container.

**Storage class** Flammable liquid storage.

### 7.3. Specific end use(s)

## SECTION 8: Exposure Controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

DE-AROMATISED WHITE SPIRIT

## FIRWOOD 114 LOW ODOUR THINNERS

Long-term exposure limit (8-hour TWA): OEL 1000 mg/m<sup>3</sup>

OEL = Occupational Exposure Limit.

**Ingredient comments** WEL = Workplace Exposure Limits

### DE-AROMATISED WHITE SPIRIT (CAS: 64742-47-8)

**DNEL**

Industry - Dermal; Long term : 300 mg/kg/day  
 Industry - Inhalation; Short term : 1500 mg/m<sup>3</sup>  
 Consumer - Dermal; Long term : 300 mg/kg/day  
 Consumer - Inhalation; Long term : 900 mg/m<sup>3</sup>  
 Consumer - Oral; Long term : 300 mg/kg/day

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Provide adequate general and local exhaust ventilation.

#### Eye/face protection

The following protection should be worn: Chemical splash goggles.

#### Hand protection

Use protective gloves.

#### Other skin and body protection

Wear appropriate clothing to prevent any possibility of liquid contact and repeated or prolonged vapour contact. Provide eyewash station.

#### 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 and water if skin becomes contaminated. Use appropriate skin cream to prevent drying of skin. When using do not eat, drink or smoke.

#### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn. Wear a respirator fitted with the following cartridge: Organic vapour filter.

## SECTION 9: Physical and Chemical Properties

### 9.1. Information on basic physical and chemical properties

<b>Appearance</b>	Clear liquid.
<b>Colour</b>	Colourless.
<b>Odour</b>	Hydrocarbons.
<b>Initial boiling point and range</b>	155 - 195 @°C @ 760 mm Hg
<b>Flash point</b>	38°C CC (Closed cup).
<b>Evaporation rate</b>	57 (diethyl ether = 1)
<b>Upper/lower flammability or explosive limits</b>	Lower flammable/explosive limit: 0.9 Upper flammable/explosive limit: 8
<b>Vapour pressure</b>	0.36 kPa @ °C
<b>Relative density</b>	0.774 @ @ 15°C
<b>Bulk density</b>	774 kg/m <sup>3</sup>
<b>Solubility(ies)</b>	Insoluble in water

## FIRWOOD 114 LOW ODOUR THINNERS

<b>Auto-ignition temperature</b>	240°C
<b>Viscosity</b>	1.26 cSt @ 20°C

### 9.2. Other information

#### SECTION 10: Stability and reactivity

##### 10.1. Reactivity

##### 10.2. Chemical stability

**Stability** Stable at normal ambient temperatures.

##### 10.3. Possibility of hazardous reactions

##### 10.4. Conditions to avoid

**Conditions to avoid** Avoid heat, flames and other sources of ignition.

##### 10.5. Incompatible materials

##### 10.6. Hazardous decomposition products

**Hazardous decomposition products** Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

#### SECTION 11: Toxicological information

##### 11.1. Information on toxicological effects

<b>Inhalation</b>	Vapour may irritate respiratory system/lungs.
<b>Ingestion</b>	Harmful: may cause lung damage if swallowed.
<b>Skin contact</b>	Product has a defatting effect on skin. Repeated exposure may cause skin dryness or cracking. May cause allergic contact eczema.
<b>Eye contact</b>	May cause severe eye irritation.
<b>Target organs</b>	Skin Eyes Respiratory system, lungs

##### Toxicological information on ingredients.

#### DE-AROMATISED WHITE SPIRIT

##### Acute toxicity - oral

**Acute toxicity oral (LD<sub>50</sub> mg/kg)** 5,000.0

**Species** Rat

**ATE oral (mg/kg)** 5,000.0

##### Acute toxicity - dermal

**Acute toxicity dermal (LD<sub>50</sub> mg/kg)** 5,000.0

**Species** Rabbit

**ATE dermal (mg/kg)** 5,000.0

##### Acute toxicity - inhalation

**Acute toxicity inhalation (LC<sub>50</sub> vapours mg/l)** 4.95

**FIRWOOD 114 LOW ODOUR THINNERS**

**Species** Rat

**SECTION 12: Ecological Information**

**Ecotoxicity** Not regarded as dangerous for the environment.

**12.1. Toxicity**

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >1000 mg/l, Algae

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: >1000 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** IC<sub>50</sub>, 72 hours: >1000 mg/l, Fish

**Ecological information on ingredients.****DE-AROMATISED WHITE SPIRIT**

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: >1000 mg/l, Onchorhynchus mykiss (Rainbow trout)

**Acute toxicity - aquatic invertebrates** EC<sub>50</sub>, 48 hours: >1000 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** EC<sub>50</sub>, 72 hours: >1000 mg/l, Pseudokirchneriella subcapitata

**Acute toxicity - microorganisms** EC<sub>50</sub>, : >100 mg/l, Activated sludge

**Chronic toxicity - fish early life stage** NOEC, 28 days: 0.131 mg/l, Onchorhynchus mykiss (Rainbow trout)

**Chronic toxicity - aquatic invertebrates** NOEC, 21 days: 0.23 mg/l, Daphnia magna

**12.2. Persistence and degradability****Ecological information on ingredients.****DE-AROMATISED WHITE SPIRIT**

**Biodegradation** - Degradation 80: 28 days

**12.3. Bioaccumulative potential****Ecological information on ingredients.****DE-AROMATISED WHITE SPIRIT**

**Partition coefficient** : 5 - 6.7

**12.4. Mobility in soil****Ecological information on ingredients.****DE-AROMATISED WHITE SPIRIT**

**Surface tension** 24.5 mN/m @ 20°C

**12.5. Results of PBT and vPvB assessment****12.6. Other adverse effects****SECTION 13: Disposal considerations****13.1. Waste treatment methods**

## FIRWOOD 114 LOW ODOUR THINNERS

**General information** Waste should be treated as controlled waste. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

**Disposal methods** Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

### SECTION 14: Transport information

#### 14.1. UN number

UN No. (ADR/RID)	1268
UN No. (IMDG)	1268
UN No. (ICAO)	1268
UN No. (ADN)	1268

#### 14.2. UN proper shipping name

Proper shipping name (ADR/RID)	PETROLEUM DISTILLATES, N.O.S., or PETROLEUM PRODUCTS, N.O.S.
Proper shipping name (IMDG)	PETROLEUM DISTILLATES, N.O.S., or PETROLEUM PRODUCTS, N.O.S.
Proper shipping name (ICAO)	PETROLEUM DISTILLATES, N.O.S., or PETROLEUM PRODUCTS, N.O.S.
Proper shipping name (ADN)	PETROLEUM DISTILLATES, N.O.S., or PETROLEUM PRODUCTS, N.O.S.

#### 14.3. Transport hazard class(es)

ADR/RID class	3
ADR/RID classification code	F1
ADR/RID label	3
IMDG class	3
ICAO class/division	3
ADN class	3

#### Transport labels



#### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ADN packing group	III
ICAO packing group	III

#### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant  
No.

#### 14.6. Special precautions for user

EmS F-E, S-E

## FIRWOOD 114 LOW ODOUR THINNERS

<b>ADR transport category</b>	3
<b>Emergency Action Code</b>	3Y
<b>Hazard Identification Number (ADR/RID)</b>	30
<b>Tunnel restriction code</b>	(D/E)

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

#### SECTION 15: Regulatory information

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

<b>National regulations</b>	The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716). Control of Substances Hazardous to Health Regulations 2002 (as amended)
<b>EU legislation</b>	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) (as amended).
<b>Guidance</b>	Workplace Exposure Limits EH40. Introduction to Local Exhaust Ventilation HS(G)37. CHIP for everyone HSG228. Approved Classification and Labelling Guide (Sixth edition) L131.

##### 15.2. Chemical safety assessment

#### SECTION 16: Other information

<b>Issued by</b>	HS&E Manager.
<b>Revision date</b>	18/12/2014
<b>Revision</b>	7
<b>SDS number</b>	10380
<b>SDS status</b>	Approved.
<b>Risk phrases in full</b>	R10 Flammable. R65 Harmful: may cause lung damage if swallowed. R66 Repeated exposure may cause skin dryness or cracking.
<b>Hazard statements in full</b>	H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways.

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.