



SAFETY DATA SHEET

FIRWOOD 680 CHLORINATED RUBBER GLOSS

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 680 CHLORINATED RUBBER GLOSS
Product number 680
Container size 5 litre container

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)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Flam. Liq. 3 - H226
Health hazards Acute Tox. 4 - H302 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Lact. - H362
 STOT SE 3 - H335 STOT RE 2 - H373
Environmental hazards Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC) Xn;R65. Xi;R37. N;R51/53. R10,R64,R66,R67.

Human health Vapours and spray/mists in high concentrations are narcotic. Symptoms following overexposure may include the following: Headache. Fatigue. Dizziness. Nausea, vomiting. Irritating to skin. Product has a defatting effect on skin.

Environmental The product contains a substance which may cause long term adverse effects in the aquatic environment.

Physicochemical Heating may generate flammable vapours. Vapours may form explosive mixtures with air.

2.2. Label elements

FIRWOOD 680 CHLORINATED RUBBER GLOSS**Pictogram****Signal word**

Warning

Hazard statements

H226 Flammable liquid and vapour.
 H302+H332 Harmful if swallowed or if inhaled.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H362 May cause harm to breast-fed children.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H412 Harmful to aquatic life with long lasting effects.

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.
 P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P314 Get medical advice/ attention if you feel unwell.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P403+P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains

XYLENE, CHLORINATED PARAFFIN

2.3. Other hazards**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

XYLENE		10-30%
CAS number: 1330-20-7	EC number: 215-535-7	
Classification	Classification (67/548/EEC or 1999/45/EC)	
Flam. Liq. 3 - H226	R10 Xn;R20/21 Xi;R38	
Acute Tox. 4 - H302		
Acute Tox. 4 - H312		
Acute Tox. 4 - H332		
Skin Irrit. 2 - H315		
Eye Irrit. 2 - H319		
STOT SE 3 - H335		
STOT RE 2 - H373		
Asp. Tox. 1 - H304		

FIRWOOD 680 CHLORINATED RUBBER GLOSS

CHLORINATED PARAFFIN	1-5%
CAS number: 85535-85-9	EC number: 287-477-0
M factor (Acute) = 1	
Classification Lact. - H362 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410	Classification (67/548/EEC or 1999/45/EC) N;R50/53. R64,R66.
BUTYL ACETATE -norm	1-5%
CAS number: 123-86-4	EC number: 204-658-1
Classification Flam. Liq. 3 - H226 STOT SE 3 - H336	Classification (67/548/EEC or 1999/45/EC) R10 R66 R67
2-BUTOXYETHANOL	<1%
CAS number: 111-76-2	EC number: 203-905-0
Classification Acute Tox. 4 - H302 Acute Tox. 4 - H312 Acute Tox. 4 - H332 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319	Classification (67/548/EEC or 1999/45/EC) Xn;R20/21/22 Xi;R36/38

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. Rinse mouth thoroughly with water. Give plenty of water to drink. Get medical attention. Show this Safety Data Sheet to the medical personnel.
Skin contact	Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention promptly if symptoms occur after washing.
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.

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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

XYLENE

Long-term exposure limit (8-hour TWA): WEL 50 ppm(Sk) 220 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL 100 ppm(Sk) 441 mg/m³(Sk)

2-BUTOXYETHANOL

Long-term exposure limit (8-hour TWA): WEL 25 ppm(Sk)

Short-term exposure limit (15-minute): WEL 50 ppm(Sk)

WEL = Workplace Exposure Limit

Ingredient comments WEL = Workplace Exposure Limits

FIRWOOD 680 CHLORINATED RUBBER GLOSS**XYLENE (CAS: 1330-20-7)**

DNEL Industry - Inhalation; Short term : 442 mg/m³
Industry - Inhalation; Long term local effects: 221 mg/kg/day
Industry - Dermal; Long term : 3182 mg/kg/day
Consumer - Inhalation; Short term : 260 mg/m³
Consumer - Inhalation; Long term : 65.3 mg/m³
Consumer - Dermal; : 1872 mg/kg/day
Consumer - Oral; Long term : 12.5 mg/kg/day

PNEC - Fresh water; 0.327 mg/l
- Marine water; 0.327 mg/l
- Sediment (Freshwater); 12.46 mg/kg
- Sediment (Marinewater); 12.46 mg/kg
- Soil; 2.31 mg/kg
- STP; 6.58 mg/l

CHLORINATED PARAFFIN (CAS: 85535-85-9)

DNEL Industry - Dermal; Long term systemic effects: 11.5 mg/kg/day
Industry - Inhalation; Long term systemic effects: 1.6 mg/m³
General population - Dermal; Long term systemic effects: 5.75 mg/kg/day
General population - Inhalation; Long term systemic effects: 0.4 mg/m³
General population - Oral; Long term systemic effects: 0.115 mg/kg/day

PNEC - Fresh water; 0.001 mg/l
- Marine water; 0.0002 mg/l
- STP; 80 mg/l
- Sediment (Freshwater); 13 mg/kg/day
- Sediment (Marinewater); 2.6 mg/kg/day
- Soil; 20 mg/kg/day

BUTYL GLYCOLATE (CAS: 7397-62-8)

DNEL Workers - Inhalation; Long term systemic effects: 330 mg/m³
Workers - Dermal; Long term systemic effects: 44 mg/kg
Consumer - Oral; Long term systemic effects: 2 mg/kg
Consumer - Dermal; Long term systemic effects: 20.8 mg/kg
Consumer - Dermal; Long term local effects: 0.28 mg/kg
Consumer - Inhalation; Long term systemic effects: 43.5 mg/m³

PNEC - Fresh water; 0.05 mg/l
- Soil; 0.012 mg/kg
- Sediment (Freshwater); 0.203 mg/kg
- STP; 232 mg/l

2-BUTOXYETHANOL (CAS: 111-76-2)

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DNEL	<p>Workers - Dermal; Short term systemic effects: 89 mg/kg Workers - Inhalation; Short term systemic effects: 135 ppm Workers - Inhalation; Short term local effects: 50 ppm Workers - Dermal; Long term systemic effects: 75 mg/kg Workers - Inhalation; Long term systemic effects: 20 ppm Consumer - Dermal; Short term systemic effects: 44.5 mg/kg Consumer - Inhalation; Short term systemic effects: 426 mg/m³ Consumer - Oral; Short term systemic effects: 13.4 mg/kg Consumer - Inhalation; Short term local effects: 123 mg/m³ Consumer - Inhalation; Long term systemic effects: 49 mg/m³ Consumer - Oral; Long term systemic effects: 3.2 mg/kg</p>
PNEC	<p>- Fresh water; 8.8 mg/l - Marine water; 0.88 mg/l - STP; 463 mg/l - Sediment (Freshwater); 34.6 mg/kg - Sediment (Marinewater); 3.46 mg/kg - Soil; 2.8 mg/kg</p>

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

Appearance	Liquid
Odour	Aromatic.
Initial boiling point and range	162-181 @°C @ 760 mm Hg
Flash point	36°C CC (Closed cup).
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 0.8
Vapour density	>1
Relative density	0.98-1.3 @ @ 20°C

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Solubility(ies)	Immiscible with water
Viscosity	500 - 800 mPas @ 25°C
9.2. Other information	
Volatility	65
Volatile organic compound	This product contains a maximum VOC content of <600 g/litre.

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. Avoid contact with the following materials: Strong oxidising agents.

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

Acute toxicity - oral

ATE oral (mg/kg) 1,966.81

Acute toxicity - dermal

ATE dermal (mg/kg) 6,687.17

Acute toxicity - inhalation

ATE inhalation (gases ppm) 19,668.14

Inhalation The product contains organic solvents. Overexposure may depress the central nervous system, causing dizziness and intoxication.

Ingestion Harmful: may cause lung damage if swallowed.

Skin contact Product has a defatting effect on skin. Repeated exposure may cause skin dryness or cracking. May cause allergic contact eczema.

Eye contact May cause severe eye irritation.

Target organs Skin Eyes Respiratory system, lungs

Toxicological information on ingredients.

XYLENE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,000.0

Species Rat

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ATE oral (mg/kg) 500.0

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 1,700.0
mg/kg)

Species Rabbit

ATE dermal (mg/kg) 1,700.0

Acute toxicity - inhalation

Acute toxicity inhalation 5,000.0
(LC₅₀ gases ppmV)

Species Rat

ATE inhalation (gases 5,000.0
ppm)

CHLORINATED PARAFFIN**Acute toxicity - oral**

Acute toxicity oral (LD₅₀ 4,000.0
mg/kg)

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ 4,000.0
mg/kg)

Species Rat

Acute toxicity - inhalation

Acute toxicity inhalation 48,170.0
(LC₅₀ vapours mg/l)

Species Rat

2-BUTOXYETHANOL**Acute toxicity - oral**

Acute toxicity oral (LD₅₀ 1,480.0
mg/kg)

Species Rat

ATE oral (mg/kg) 1,480.0

Acute toxicity - inhalation

Acute toxicity inhalation 450.0
(LC₅₀ vapours mg/l)

Species Rat

ATE inhalation (vapours 11.0
mg/l)

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Ecotoxicity The product contains substances which are toxic to aquatic organisms and which may cause long term adverse effects in the aquatic environment.

12.1. Toxicity

Ecological information on ingredients.

XYLENE

Acute toxicity - fish	LC ₅₀ , 96 hours: 4.2 mg/l, Onchorhynchus mykiss (Rainbow trout)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: >2.93 mg/l, Daphnia magna
Chronic toxicity - fish early life stage	NOEC, hours: mg/l, Algae
Chronic toxicity - aquatic invertebrates	NOEC, 96 hours: 3.3 mg/l, Daphnia magna

CHLORINATED PARAFFIN

Acute aquatic toxicity

LE(C)₅₀	0.1 < L(E)C ₅₀ ≤ 1
M factor (Acute)	1
Acute toxicity - fish	, : 5900 mg/l, Algae
Acute toxicity - aquatic invertebrates	NOEC, : 0.01 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 96 hours: 3.2 mg/l, Fish
Acute toxicity - terrestrial	NOEC, : 50 mg/l, Eisenia Fetida (Earthworm)
<u>Chronic aquatic toxicity</u>	
NOEC	0.01 < NOEC ≤ 0.1
Degradability	Rapidly degradable

2-BUTOXYETHANOL

Acute toxicity - fish	LC ₅₀ , 48 hours: 1395 mg/l, Leuciscus idus (Golden orfe)
Acute toxicity - aquatic invertebrates	LC ₅₀ , 24 hours: 1815 mg/l, Daphnia magna
Acute toxicity - aquatic plants	LC ₅₀ , 72 hours: 500 mg/l, Fish

12.2. Persistence and degradability

Ecological information on ingredients.

XYLENE

Persistence and degradability	The product is biodegradable.
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12.3. Bioaccumulative potential

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Ecological information on ingredients.

XYLENE

Bioaccumulative potential The product contains potentially bioaccumulating substances.

Partition coefficient :

12.4. Mobility in soil

Ecological information on ingredients.

XYLENE

Mobility The product contains volatile organic compounds (VOCs) which will evaporate easily from all surfaces.

12.5. Results of PBT and vPvB assessment

Ecological information on ingredients.

XYLENE

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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) 1263

UN No. (IMDG) 1263

UN No. (ICAO) 1263

14.2. UN proper shipping name

Proper shipping name (ADR/RID) PAINT (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC.; LOW BOILING POINT NAPHTHA,)

Proper shipping name (IMDG) PAINT (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC.; LOW BOILING POINT NAPHTHA,)

Proper shipping name (ICAO) PAINT (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC.; LOW BOILING POINT NAPHTHA,)

Proper shipping name (ADN) PAINT (SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC.; LOW BOILING POINT NAPHTHA,)

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID label 3

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IMDG class 3

ICAO class/division 3

Transport labels



14.4. Packing group

ADR/RID packing group III

IMDG packing group III

ICAO 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 3YE

Hazard Identification Number 30
(ADR/RID)

Tunnel restriction code (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

National regulations The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).

Control of Substances Hazardous to Health Regulations 2002 (as amended)

EU legislation Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Guidance 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

Issued by HS&E Manager.

Revision date 13/05/2015

Revision 9

Supersedes date 16/10/2009

FIRWOOD 680 CHLORINATED RUBBER GLOSS

SDS number	10244
SDS status	Approved.
Risk phrases in full	R10 Flammable. R20 Harmful by inhalation. R20/21 Harmful by inhalation and in contact with skin. R36/37/38 Irritating to eyes, respiratory system and skin. R37 Irritating to respiratory system. R38 Irritating to skin. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R64 May cause harm to breastfed babies. 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	H226 Flammable liquid and vapour. H302 Harmful if swallowed. 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. H362 May cause harm to breast-fed children. H373 May cause damage to organs through prolonged or repeated exposure. H373 May cause damage to organs (Respiratory system, lungs) through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects.

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.