



SAFETY DATA SHEET

FIRWOOD 191 CHLORINATED RUBBER HIGH BUILD PRIMER

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 191 CHLORINATED RUBBER HIGH BUILD PRIMER
Product number 191
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 2 - H411

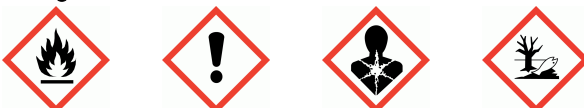
Classification (67/548/EEC or 1999/45/EC) Xn; R22, R48/20/21/22. Xi; R36/37/38. N; R51/53. R64, R10

Environmental The product contains a substance which is very toxic to aquatic organisms and 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

Pictogram



FIRWOOD 191 CHLORINATED RUBBER HIGH BUILD PRIMER

| | |
|---|--|
| Signal word | Warning |
| Hazard statements | H226 Flammable liquid and vapour. H302 Harmful if swallowed. 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. H411 Toxic 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. P501 Dispose of contents/ container in accordance with national regulations. |
| Contains | XYLENE, CHLORINATED PARAFFIN |
| Supplementary precautionary statements | P201 Obtain special instructions before use. P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. 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. P260 Do not breathe vapour/ spray. P261 Avoid breathing vapour/ spray. P263 Avoid contact during pregnancy/ while nursing. P264 Wash contaminated skin 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. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P302+P352 IF ON SKIN: Wash with plenty of water. P308+P313 IF exposed or concerned: Get medical advice/ attention. P312 Call a POISON CENTER/ doctor if you feel unwell. P314 Get medical advice/ attention if you feel unwell. P321 Specific treatment (see medical advice on this label). P330 Rinse mouth. P332+P313 If skin irritation occurs: Get medical advice/ attention. P337+P313 If eye irritation persists: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse. P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish. P391 Collect spillage. 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. |

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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| | |
|--|--|
| XYLENE | 10-30% |
| CAS number: 1330-20-7 | EC number: 215-535-7 |
| Classification Flam. Liq. 3 - H226 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 | Classification (67/548/EEC or 1999/45/EC) R10 Xn;R20/21 Xi;R38 |
| TRIZINC BIS(ORTHOPHOSPHATE)*2H2O | 10-30% |
| CAS number: 7779-90-0 | EC number: 231-944-3 |
| M factor (Acute) = 1 | M factor (Chronic) = 1 |
| Classification Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410 | Classification (67/548/EEC or 1999/45/EC) N;R50/53. |
| 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. |

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 | Move affected person to fresh air at once. Get medical attention. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. |
| Ingestion | Never give anything by mouth to an unconscious person. Do not induce vomiting. Do not induce vomiting. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Give plenty of water to drink. Get medical attention immediately. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. |
| Skin contact | Remove affected person from source of contamination. 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. |

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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. Absorb spillage with non-combustible, absorbent material. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. 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)

WEL = Workplace Exposure Limit

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Ingredient comments

WEL = Workplace Exposure Limits

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

TRIZINC BIS(ORTHOPHOSPHATE)*2H2O (CAS: 7779-90-0)

DNEL

Workers - Inhalation; Long term systemic effects: 5 mg/m³
 Workers - Dermal; Long term systemic effects: 83 mg/kg/day
 Consumer - Dermal; Long term systemic effects: 83 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 2.5 mg/m³
 Consumer - Oral; Long term : 0.83 mg/kg/day

PNEC

- Fresh water; 0.0206 mg/l
 - Marine water; 0.0061 mg/l
 - Sediment (Freshwater); 117.8 mg/kg
 - Sediment (Marinewater); 56.5 mg/kg
 - Soil; 35.6 mg/kg
 - STP; 0.1 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

8.2. Exposure controls

Protective equipment



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| | |
|---|---|
| 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 | 137-181°C @ 760 mm Hg |
| Flash point | 25°C CC (Closed cup). |
| Upper/lower flammability or explosive limits | Lower flammable/explosive limit: 0.8 |
| Vapour density | >1 |
| Relative density | 1.3-1.6 @ 20°C |
| Solubility(ies) | Insoluble in water |
| Viscosity | 400-500 cP @ 25°C |

9.2. Other information

| | |
|----------------------------------|--|
| Volatility | 60 |
| Volatile organic compound | This product contains a maximum VOC content of <490 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

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11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 1,717.62281003

Acute toxicity - dermal

ATE dermal (mg/kg) 5,839.91755411

Acute toxicity - inhalation

ATE inhalation (gases ppm) 17,176.22810031

| | |
|----------------------|---|
| Inhalation | Gas or vapour is harmful on prolonged exposure or in high concentrations. |
| Ingestion | Liquid irritates mucous membranes and may cause abdominal pain if swallowed. |
| Skin contact | Harmful in contact with skin. Prolonged or repeated exposure may cause severe irritation. |
| 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

ATE oral (mg/kg) 500.0

Acute toxicity - dermal

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

Species Rabbit

ATE dermal (mg/kg) 1,700.0

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ gases ppmV) 5,000.0

Species Rat

ATE inhalation (gases ppm) 5,000.0

TRIZINC BIS(ORTHOPHOSPHATE)*2H2O

Acute toxicity - oral

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

Species Rat

ATE oral (mg/kg) 5,000.0

Acute toxicity - inhalation

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Acute toxicity inhalation
(LC₅₀ dust/mist mg/l) 5.7

Species Rat

ATE inhalation
(dusts/mists mg/l) 5.7

CHLORINATED PARAFFIN

Acute toxicity - oral

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

Species Rat

Acute toxicity - dermal

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

Species Rat

Acute toxicity - inhalation

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

Species Rat

SECTION 12: Ecological Information

Ecotoxicity The product contains a substance which is very 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 LC₅₀, 96 hours: 4.2 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 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

TRIZINC BIS(ORTHOPHOSPHATE)*2H2O

Acute aquatic toxicity

LE(C)₅₀ 0.1 < L(E)C50 ≤ 1

M factor (Acute) 1

Chronic aquatic toxicity

NOEC 0.01 < NOEC ≤ 0.1

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| | |
|---------------------------|------------------------|
| Degradability | Non-rapidly degradable |
| M factor (Chronic) | 1 |

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) |

Chronic aquatic toxicity

| | |
|----------------------|--------------------|
| NOEC | 0.01 < NOEC ≤ 0.1 |
| Degradability | Rapidly degradable |

12.2. Persistence and degradability

Ecological information on ingredients.

XYLENE

| | |
|--------------------------------------|-------------------------------|
| Persistence and degradability | The product is biodegradable. |
|--------------------------------------|-------------------------------|

12.3. Bioaccumulative potential

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

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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 (TRIZINC BIS(ORTHOPHOSPHATE)*2-4H ₂ O, SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC.; LOW BOILING POINT NAPHTHA) |
| Proper shipping name (IMDG) | PAINT (TRIZINC BIS(ORTHOPHOSPHATE)*2-4H ₂ O, SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC.; LOW BOILING POINT NAPHTHA) |
| Proper shipping name (ICAO) | PAINT (TRIZINC BIS(ORTHOPHOSPHATE)*2-4H ₂ O, SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC.; LOW BOILING POINT NAPHTHA) |
| Proper shipping name (ADN) | PAINT (TRIZINC BIS(ORTHOPHOSPHATE)*2-4H ₂ O, SOLVENT NAPHTHA (PETROLEUM), LIGHT AROMATIC.; LOW BOILING POINT NAPHTHA) |

14.3. Transport hazard class(es)

| | |
|---------------------|---|
| ADR/RID class | 3 |
| ADR/RID label | 3 |
| 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

FIRWOOD 191 CHLORINATED RUBBER HIGH BUILD PRIMER

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 Approved Classification and Labelling Guide (Sixth edition) L131.

15.2. Chemical safety assessment

SECTION 16: Other information

Issued by HS&E Manager.

Revision date 15/09/2015

Revision 6

Supersedes date 02/12/2009

SDS number 10218

SDS status Approved.

Risk phrases in full R10 Flammable.
R20/21 Harmful by inhalation and in contact with skin.
R38 Irritating to skin.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R64 May cause harm to breastfed babies.
R66 Repeated exposure may cause skin dryness or cracking.

FIRWOOD 191 CHLORINATED RUBBER HIGH BUILD PRIMER

| | |
|----------------------------------|--|
| 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. 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. H411 Toxic 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.