



SAFETY DATA SHEET

FIRWOOD 176 CHROMATE FREE TWO PACK ETCH PRIMER BASE COMPONENT

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 176 CHROMATE FREE TWO PACK ETCH PRIMER BASE COMPONENT
Product number	176B
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)
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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	Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H336 STOT SE 3 - H336
Environmental hazards	Aquatic Chronic 3 - H412

Classification (67/548/EEC or 1999/45/EC) Xi; R41, R38. R52/53, R10, 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 eyes. May cause skin disorders if contact is repeated or prolonged.
Environmental	The product contains a substance which may cause long term adverse effects in the environment.
Physicochemical	The product is highly flammable. Vapours may form explosive mixtures with air.

2.2. Label elements

FIRWOOD 176 CHROMATE FREE TWO PACK ETCH PRIMER BASE COMPONENT

Pictogram



Signal word

Danger

Hazard statements

H226 Flammable liquid and vapour.
 H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H336 May cause drowsiness or dizziness.
 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.
 P332+P313 If skin irritation occurs: Get medical advice/ attention.
 P501 Dispose of contents/ container in accordance with national regulations.

Contains

BUTANONE, PROPAN-2-OL, BUTANOL-norm, ISO-BUTANOL

Supplementary precautionary statements

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.
 P261 Avoid breathing vapour/ spray.
 P264 Wash contaminated skin thoroughly after handling.
 P271 Use only outdoors or in a well-ventilated area.
 P273 Avoid release to the environment.
 P302+P352 IF ON SKIN: Wash with plenty of water.
 P310 Immediately call a POISON CENTER/ doctor.
 P312 Call a POISON CENTER/ doctor if you feel unwell.
 P321 Specific treatment (see medical advice on this label).
 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.
 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

BUTANONE	30-60%
CAS number: 78-93-3	EC number: 201-159-0
Classification	Classification (67/548/EEC or 1999/45/EC)
Flam. Liq. 2 - H225	F;R11 Xi;R36 R66 R67
Eye Irrit. 2 - H319	
STOT SE 3 - H336	

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PROPAN-2-OL	10-30%
CAS number: 67-63-0	EC number: 200-661-7
Classification Flam. Liq. 2 - H225 Eye Irrit. 2 - H319 STOT SE 3 - H336	Classification (67/548/EEC or 1999/45/EC) F;R11 Xi;R36 R67
BUTANOL-norm	10-30%
CAS number: 71-36-3	EC number: 200-751-6
Classification Flam. Liq. 3 - H226 Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336	Classification (67/548/EEC or 1999/45/EC) R10 Xn;R22 Xi;R37/38,R41 R67
ZINC OXIDE	1-5%
CAS number: 1314-13-2	EC number: 215-222-5
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
ISO-BUTANOL	1-5%
CAS number: 78-83-1	EC number: 201-148-0
Classification Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336	Classification (67/548/EEC or 1999/45/EC) R10 Xi;R37/38,R41 R67
PHENOL	<1%
CAS number: 108-95-2	EC number: 203-632-7
Classification Acute Tox. 3 - H301 Acute Tox. 3 - H311 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Eye Dam. 1 - H318 Muta. 2 - H341 STOT RE 2 - H373	Classification (67/548/EEC or 1999/45/EC) Muta. Cat. 3;R68 T;R23/24/25 C;R34 Xn;R48/20/21/22

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

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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.

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

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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

BUTANONE

Long-term exposure limit (8-hour TWA): WEL 200 ppm(Sk) 600 mg/m³(Sk)

Short-term exposure limit (15-minute): WEL 300 ppm(Sk) 899 mg/m³(Sk)

PROPAN-2-OL

Long-term exposure limit (8-hour TWA): WEL 400 ppm 999 mg/m³

Short-term exposure limit (15-minute): WEL 500 ppm 1250 mg/m³

BUTANOL-norm

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

Short-term exposure limit (15-minute): WEL 50 ppm(Sk) 154 mg/m³(Sk)

PHENOL

Long-term exposure limit (8-hour TWA): WEL 2 ppm 7,8 mg/m³

Sk

Short-term exposure limit (15-minute): WEL 4 ppm 16 mg/m³

WEL = Workplace Exposure Limit

Sk = Can be absorbed through skin.

Ingredient comments WEL = Workplace Exposure Limits

BUTANONE (CAS: 78-93-3)

DNEL Industry - Dermal; Long term : 1161 mg/kg/day
 Industry - Inhalation; Long term : 600 mg/m³
 Consumer - Inhalation; Long term : 412 mg/kg/day
 Consumer - ; Long term : 106 mg/m³
 Consumer - Oral; Long term : 31 mg/kg/day

PNEC - Fresh water; 55.8 mg/l
 - Marine water; 55.8 mg/l
 - Sediment (Freshwater); 284.74 mg/kg
 - Sediment (Marinewater); 287.7 mg/kg
 - Soil; 22.5 mg/kg

PROPAN-2-OL (CAS: 67-63-0)

DNEL Industry - Dermal; Long term systemic effects: 888 mg/kg/day
 Industry - Inhalation; Long term systemic effects: 500 mg/m³
 Consumer - Dermal; Long term systemic effects: 319 mg/kg/day
 Consumer - Oral; Long term systemic effects: 26 mg/kg/day
 Consumer - Inhalation; Long term systemic effects: 89 mg/m³

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- PNEC**
- Fresh water, Marine water, Intermittent release; 140.9 mg/l
 - Sediment (Freshwater), Sediment (Marinewater); 552 mg/kg
 - STP; 2251 mg/l
 - Soil; 28 mg/kg

BUTANOL-norm (CAS: 71-36-3)

- DNEL**
- Workers - Inhalation; Long term local effects: 310 mg/m³
 - Consumer - Oral; Long term systemic effects: 3.125 mg/kg/day
 - Consumer - Inhalation; Long term local effects: 55 mg/m³

- PNEC**
- Fresh water; 0.082 mg/l
 - Marine water; 0.0082 mg/l
 - Intermittent release; 2.25 mg/l
 - STP; 2476 mg/l
 - Sediment (Freshwater); 0.178 mg/kg
 - Sediment (Marinewater); 0.0178 mg/kg
 - Soil; 0.015 mg/kg

ZINC OXIDE (CAS: 1314-13-2)

- 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

PHENOL (CAS: 108-95-2)

- DNEL**
- Workers - Inhalation; Long term systemic effects: 8 mg/m³
 - Workers - Dermal; Long term systemic effects: 1.23 mg/kg/day
 - Workers - Inhalation; Short term local effects: 16 mg/m³
 - Consumer - ; systemic effects: 0.4 mg/kg/day
 - Consumer - Dermal; Long term systemic effects: 0.4 mg/kg/day
 - Consumer - Dermal; Long term systemic effects: 1.32 mg/m³

- PNEC**
- Fresh water; 0.077 mg/l
 - Marine water; 0.0077 mg/l
 - Sediment (Freshwater); 0.0915 mg/kg
 - Sediment (Marinewater); 0.00915 mg/kg
 - Soil; 0.136 mg/kg
 - Intermittent release; 0.031 mg/l
 - STP; 2.1 mg/l

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	Alcoholic.
Initial boiling point and range	79-119°C @ 760 mm Hg
Flash point	0°C CC (Closed cup).
Upper/lower flammability or explosive limits	Lower flammable/explosive limit: 0.8
Vapour density	>1
Relative density	0.9 - 1.05 @ @ 20°C
Solubility(ies)	Partly miscible with water
Viscosity	600-700 cP @ 25°C

9.2. Other information

Volatility	85
Volatile organic compound	This product contains a maximum VOC content of <700 g/litre.

SECTION 10: Stability and reactivity

10.1. Reactivity

10.2. Chemical stability

Stability	Stable at normal ambient temperatures.
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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.
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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.
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SECTION 11: Toxicological information

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11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 4,214.5723052

Acute toxicity - dermal

ATE dermal (mg/kg) 84,080.71748879

Acute toxicity - inhalation

ATE inhalation (gases ppm) 196,188.34080717

ATE inhalation (vapours mg/l) 840.80717489

ATE inhalation (dusts/mists mg/l) 140.13452915

Inhalation	The product contains organic solvents. Overexposure may depress the central nervous system, causing dizziness and intoxication.
Ingestion	Gastrointestinal symptoms, including upset stomach.
Skin contact	Product has a defatting effect on skin. Repeated exposure may cause skin dryness or cracking. May cause allergic contact eczema.
Eye contact	Risk of serious damage to eyes.
Target organs	Skin Eyes Respiratory system, lungs

Toxicological information on ingredients.

BUTANONE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 2,000.0

Species Rat

Acute toxicity - dermal

Acute toxicity dermal (LD₅₀ mg/kg) 2,000.0

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 20.0

Species Rat

PROPAN-2-OL

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 5,840.0

Species Rat

Acute toxicity - dermal

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Acute toxicity dermal (LD₅₀ 16.4 mg/kg)

Species Rabbit

Acute toxicity - inhalation

Acute toxicity inhalation (LC₅₀ vapours mg/l) 10.0

Species Rat

ZINC OXIDE

Acute toxicity - oral

Acute toxicity oral (LD₅₀ mg/kg) 15,000.0

Species Rat

ATE oral (mg/kg) 15,000.0

Acute toxicity - inhalation

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

Species Rat

ATE inhalation (dusts/mists mg/l) 5.7

SECTION 12: Ecological Information

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

12.1. Toxicity

Ecological information on ingredients.

BUTANONE

Acute toxicity - fish LC₅₀, 48 hours: >100 mg/l, Leuciscus idus (Golden orfe)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: >100 mg/l, Daphnia magna

Acute toxicity - aquatic plants , 7 days: >100 mg/l, Desmodosmus subspicatus

PROPAN-2-OL

Acute toxicity - fish LC₅₀, 96 hours: 9640 mg/l, Pimephales promelas (Fat-head Minnow)

Acute toxicity - aquatic invertebrates EC₅₀, 24 hours: >1000 , Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: >1000 mg/l, Scenedesmus subspicatus

Acute toxicity - microorganisms EC₅₀, : >1000 mg/l, Activated sludge

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BUTANOL-norm

Acute toxicity - fish	LC ₅₀ , 96 hours: 1000 mg/l, Algae LC ₅₀ , 96 hours: 1740 mg/l, Pimephales promelas (Fat-head Minnow)
Acute toxicity - aquatic invertebrates	EC ₅₀ , 48 hours: 1983 mg/l, Daphnia magna
Acute toxicity - aquatic plants	EC ₅₀ , 72 hours: >500 mg/l, Fish

ZINC OXIDE

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

Degradability Non-rapidly degradable

M factor (Chronic) 1

ISO-BUTANOL

Acute toxicity - fish LC₅₀, 96 hours: 1120 - 1520 mg/l, Onchorhynchus mykiss (Rainbow trout)
LC₅₀, 96 hours: 1370 - 1670 mg/l, Pimephales promelas (Fat-head Minnow)
LC₅₀, 96 hours: 1480 - 1730 mg/l, Lepomis macrochirus (Bluegill)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 1300 mg/l, Daphnia magna

PHENOL

Acute toxicity - fish LC₅₀, 96 hours: 11.9 - 25.3 mg/l, Lepomis macrochirus (Bluegill)
LC₅₀, 96 hours: 24.5 mg/l, Pimephales promelas (Fat-head Minnow)
LC₅₀, 96 hours: 33.9 - 43.3 mg/l, Oryzias latipes (Red killifish)
LC₅₀, 96 hours: 34.09 - 47.64 mg/l, Poecilia reticulata (Guppy)
LC₅₀, 96 hours: 8.9 mg/l, Onchorhynchus mykiss (Rainbow trout)
LC₅₀, 96 hours: 27.8 mg/l, Brachydanio rerio (Zebra Fish)

Acute toxicity - aquatic invertebrates LC₅₀, 48 hours: 10.2 - 15.5 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 187 - 279 mg/l, Desmodemus subspicatus
EC₅₀, 96 hours: 46.42 mg/l, Pseudokirchneriella subcapitata

12.2. Persistence and degradability

Ecological information on ingredients.

PROPAN-2-OL

Biodegradation - Degradation 95%: 21 days

12.3. Bioaccumulative potential

Ecological information on ingredients.

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PROPAN-2-OL

Partition coefficient log Pow: 0.05

12.4. Mobility in soil

Ecological information on ingredients.

PROPAN-2-OL

Adsorption/desorption coefficient Water - Kow: ~ 1.1 @ °C

Henry's law constant .00000338 atm m³/mol @ 25°C

12.5. Results of PBT and vPvB assessment

Ecological information on ingredients.

PROPAN-2-OL

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

Proper shipping name (IMDG) PAINT

Proper shipping name (ICAO) PAINT

Proper shipping name (ADN) PAINT

14.3. Transport hazard class(es)

ADR/RID class 3

ADR/RID label 3

IMDG class 3

ICAO class/division 3

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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
No.

14.6. Special precautions for user

EmS	F-E, S-E
Emergency Action Code	•3YE
Hazard Identification Number (ADR/RID)	30
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	10/12/2014
Revision	6
Supersedes date	25/02/2010
SDS number	10215
SDS status	Approved.

FIRWOOD 176 CHROMATE FREE TWO PACK ETCH PRIMER BASE COMPONENT

Risk phrases in full

R10 Flammable.
R22 Harmful if swallowed.
R23/24/25 Toxic by inhalation, in contact with skin and if swallowed.
R34 Causes burns.
R36 Irritating to eyes.
R37/38 Irritating to respiratory system and skin.
R38 Irritating to skin.
R41 Risk of serious damage to eyes.
R48/20/21/22 Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.
R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.
R68 Possible risk of irreversible effects.
R11 Highly flammable

Hazard statements in full

H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H301 Toxic if swallowed.
H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H335 May cause respiratory irritation.
H336 May cause drowsiness or dizziness.
H341 Suspected of causing genetic defects.
H373 May cause damage to organs 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.