



SAFETY DATA SHEET
SPO/W221 - HIGH PERFORMANCE PRIMER - HARDENER

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

1.1. Product identifier

Product name SPO/W221 - HIGH PERFORMANCE PRIMER - HARDENER
Product No. SPO/W221/1 - HARDENER

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

Identified uses HARDENER FOR TWO COMPONENT PRIMER

1.3. Details of the supplier of the safety data sheet

Supplier SPECIALIST PAINTS ONLINE
3 KIRKBY STREET
HULL
HU2 0HE
+44 (0) 1482 222421 (T)
sales@specialistpaintsonline.co.uk
Contact Person Sales Department - 08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri as above

1.4. Emergency telephone number

+44 (0) 1482 222421 - Specialist Paints Online (08.30 - 16.30 hrs Mon - Thurs, 08.30 - 15.00 hrs Fri)

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)
Physical and Chemical Hazards Not classified.
Human health Not classified.
Environment Not classified.

Classification (1999/45/EEC) Not classified.

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

Human health

The product contains a small amount of sensitising substance which may provoke an allergic reaction among sensitive individuals in contact with skin.

Physical and Chemical Hazards

When handled correctly, undamaged units represent no danger.

2.2. Label elements

Label In Accordance With (EC) No. 1272/2008

No pictogram required.

Precautionary Statements

P102	Keep out of reach of children.
P101	If medical advice is needed, have product container or label at hand.
P262	Do not get in eyes, on skin, or on clothing.
P302+352	IF ON SKIN: Wash with plenty of soap and water.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P313	Get medical advice/attention.

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Supplemental label information

P501A

Dispose of contents/container to special waste collection point

EUH205
EUH208

Contains epoxy constituents. May produce an allergic reaction.
Contains
3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE,m-phenylenebis(methylamine). May produce an allergic reaction.

2.3. Other hazards

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2. Mixtures

Barium Sulphate			10-30%
CAS-No.: 7727-43-7	EC No.: 231-784-4	Registration Number: 01-2119491274-35-0001	
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.		

Calcium Magnesium Silicate			10-30%
CAS-No.: 14807-96-6	EC No.: 238-877-9		
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.		

Silicon dioxide			<1%
CAS-No.:	EC No.:		
Classification (EC 1272/2008) Not classified.	Classification (67/548/EEC) Not classified.		

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE			<1%
CAS-No.: 2855-13-2	EC No.: 220-666-8		
Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 4 - H312 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	Classification (67/548/EEC) C;R34 Xn;R21/22 R43 R52/53		

m-phenylenebis(methylamine)			<1%
CAS-No.: 1477-55-0	EC No.: 216-032-5	Registration Number: 01-2119480150-50	
Classification (EC 1272/2008) Acute Tox. 4 - H302 Acute Tox. 3 - H331 Skin Corr. 1B - H314 Skin Sens. 1 - H317 Aquatic Chronic 3 - H412	Classification (67/548/EEC) Xn;R20/22. C;R34. R43,R52/53.		

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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

Get medical attention if any discomfort continues.

Inhalation

Move into fresh air and keep at rest. Perform artificial respiration if breathing has stopped. Place unconscious person on the side in the recovery position and ensure breathing can take place. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Consult a physician for specific advice.

Ingestion

Get medical attention immediately! NEVER MAKE AN UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS! Induce vomiting or remove stomach contents by gastric suction only as directed by medical personnel.

Skin contact

Important to remove the substance from the skin immediately. Wash off promptly and flush contaminated skin with water. Promptly remove clothing if soaked through and flush skin with water. Continue to rinse for at least 15 minutes. Remove contaminated clothing and shoes. Contaminated leather should be discarded. Wash contaminated clothing before reuse.

Eye contact

Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Get medical attention immediately. Continue to rinse.

4.2. Most important symptoms and effects, both acute and delayed

General information

If adverse symptoms develop as described the casualty should be transferred to hospital as soon as possible.

4.3. Indication of any immediate medical attention and special treatment needed

No recommendation given, but first aid may still be required in case of accidental exposure, inhalation or ingestion of this chemical. If in doubt, GET MEDICAL ATTENTION PROMPTLY!

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Extinguishing media

Use fire-extinguishing media appropriate for surrounding materials. Fire can be extinguished using: Water spray, fog or mist.

5.2. Special hazards arising from the substance or mixture

Specific hazards

When heated and in case of fire, toxic vapours/gases may be formed. Fire creates: Acrid smoke/fumes of: Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x).

5.3. Advice for firefighters

Special Fire Fighting Procedures

Avoid breathing fire vapours.

Protective equipment for fire-fighters

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

Ensure suitable personal protection (including respiratory protection) during removal of spillages in a confined area. Wear butyl rubber protective clothing and boots. Avoid contact with skin and eyes. Wear protective gloves and, in case of splashes, goggles/face shield too. Exclude non-essential personnel. Open enclosed spaces to outside atmosphere.

6.2. Environmental precautions

Do not allow to enter drains, sewers or watercourses. Contain spillages with sand, earth or any suitable adsorbent material. Spillages or uncontrolled discharges into watercourses must be IMMEDIATELY alerted to the Environmental Agency or other appropriate regulatory body.

SPOW221 - HIGH PERFORMANCE PRIMER - HARDENER**6.3. Methods and material for containment and cleaning up**

Wear necessary protective equipment. Clean-up personnel should use respiratory and/or liquid contact protection. Recover the product and place in a suitable container for reuse. Place in metal containers for recovery or disposal. or Absorb with inert, damp, non-combustible material, then flush area with water. Collect spillage in containers, seal securely and deliver for disposal according to local regulations. Large Spillages: Recover spilled material with a vacuum truck.

6.4. Reference to other sections

For personal protection, see section 8.

SECTION 7: HANDLING AND STORAGE**7.1. Precautions for safe handling**

Read and follow manufacturer's recommendations. Persons susceptible to allergic reactions should not handle this product. Do not use in confined spaces without adequate ventilation and/or respirator. Spraying increases the risk of hazardous exposure. In atmospheres where the material is sprayed, workers should avoid contact with aerosols or mists containing these resins through engineering controls, such as exhaust ventilation. Avoid inhalation of vapours/spray and contact with skin and eyes. Wear goggles and face shield. DO NOT GET IN EYES. Other individuals working in the vicinity of the product where exposure can occur should be fitted with chemical splash goggles. Contaminated clothing should be properly laundered or disposed of in a manner that will not cause additional exposure. Workers should be strongly encouraged to follow good hygiene practices, such as thorough washing of hands, arms, neck and face. The Manual Handling Operations Regulations may apply to the handling of containers of this product. For products sold by weight refer to the guide net weight indicated on the container. Allowance will have to be made for the immediate packaging to give an approximate gross weight.

7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Keep upright. Protect from light, including direct sunrays. Store in closed original container at temperatures between 5°C and 25°C. Store separated from: Oxidising material. Acids. Alkalis.

Storage Class

Miscellaneous hazardous material storage.

7.3. Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1. Control parameters**

Name	STD	TWA - 8 Hrs		STEL - 15 Min		Notes
Barium Sulphate	WEL		10 mg/m3			
Calcium Magnesium Silicate	WEL		1 mg/m3			
Silicon dioxide	WEL		2.4 mg/m3 resp.dust		6 mg/m3 total dust	

WEL = Workplace Exposure Limit.

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE (CAS: 2855-13-2)

DNEL			
Professional	Inhalation.	20.1	mg/m3
PNEC			
Professional	Freshwater	0.06	mg/l
Professional	Marinewater	0.006	mg/l

8.2. Exposure controls

Protective equipment



Process conditions

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

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Engineering measures

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Respiratory equipment

When spraying use suitable air-supplied respirator.

Hand protection

Protective gloves and goggles must be used if there is a risk of direct contact or splash. Nitrile gloves are recommended, but be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Eye protection

Wear splash-proof eye goggles to prevent any possibility of eye contact. Wear full-face visor or shield. Other individuals working in the vicinity of the product where exposure could occur should also be fitted with chemical splash goggles. Workers should not contact their eyes or skin with hands contaminated with the material.

Other Protection

Wear suitable protective clothing as protection against splashing or contamination.

Hygiene measures

Wash contaminated clothing before reuse. Wash hands at the end of each work shift and before eating, smoking and using the toilet.

Personal protection

Unprotected persons should be kept away from treated areas.

Skin protection

Protection suit must be worn.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Viscous Liquid
Colour	White / off-white.
Odour	Ammonia.
Solubility	Soluble in water.
Initial boiling point and boiling range (°C)	>100 760 mm Hg
Relative density	1.30 @ 20 C
Vapour pressure	15 mm Hg @ 21 C
pH-Value, Conc. Solution	8.9
Flash point (°C)	above 100 CC (Closed cup).
Auto Ignition Temperature (°C)	150

9.2. Other information

Volatile Organic Compound (VOC) 0 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

Not determined.

10.4. Conditions to avoid

Not relevant

10.5. Incompatible materials

Materials To Avoid

Strong oxidising substances. Organic peroxides/hydroperoxides. Reaction with peroxides may result in violent decomposition of peroxide possibly creating an explosion.

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Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

SECTION 11: TOXICOLOGICAL INFORMATION**11.1. Information on toxicological effects**

Toxic Dose 1 - LD 50

511 mg/kg (oral rat)

Toxic Conc. - LC 50

no data ppm/-- (ihl-rat)

Toxicological information

Tests with rats and rabbits to determine ocular toxicity resulted in deaths in both species at a level of 70% active ingredient. Animals died within one hour after material was placed in the eye and before eye irritation could be scored. Additional tests showed that flushing the eye within 30 seconds was not effective in preventing animal deaths. Severe irritation to the eyes of a rabbit. Non irritant to the skin of a rabbit. No delayed, subchronic or chronic test data are known.

Inhalation

Not relevant at normal room temperatures. When heated, harmful vapours may be formed. Vapour from this chemical can be hazardous when inhaled. Vapours may irritate the respiratory system and cause coughing, asthmatic breathing and breathlessness.

Ingestion

Harmful if swallowed.

Skin contact

Risk of sensitisation or allergic reactions among sensitive individuals.

Eye contact

Risk of serious damage to eyes.

Route of entry

Inhalation. Skin absorption. Ingestion. Skin and/or eye contact.

Medical Considerations

Skin disorders and allergies. Splash in eye requires examination by eye specialist.

Specific effects

Over exposure, especially during spraying without the necessary precautions, entails risk of concentration- dependant irritating effects on eyes, nose, throat and respiratory tract.

Toxicological information on ingredients.**Barium Sulphate (CAS: 7727-43-7)**

Toxic Dose 1 - LD 50

>15000 mg/kg (oral rat)

3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE (CAS: 2855-13-2)

Toxic Dose 1 - LD 50

1030 mg/kg (oral rat)

Acute toxicity:

Acute Toxicity (Dermal LD50)

1840 mg/kg Rat

SPO/W221 - HIGH PERFORMANCE PRIMER - HARDENER**m-phenylenebis(methylamine) (CAS: 1477-55-0)**

Toxic Dose 1 - LD 50
930 mg/kg (oral rat)
Toxic Conc. - LC 50
2.4 mg/l/4h (inh-rat)

Acute toxicity:

Acute Toxicity (Dermal LD50)
2000 mg/kg Rabbit

Aspiration hazard:

Skin contact
Irritating to skin. May cause sensitisation by skin contact.
Irritation of eyes and mucous membranes. Risk of serious damage to eyes.

SECTION 12: ECOLOGICAL INFORMATION**Ecotoxicity**

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

12.1. Toxicity**Ecological information on ingredients.****3-AMINOMETHYL-3,5,5-TRIMETHYLCYCLOHEXYLAMINE (CAS: 2855-13-2)**

LC50 96 hours 110 mg/l Brachydanio rerio (Zebra Fish)
EC 50, 48 Hrs, Daphnia, mg/l
23

Acute Toxicity - Aquatic Plants
EC50 72 hours 50 mg/l Scenedesmus subspicatus

m-phenylenebis(methylamine) (CAS: 1477-55-0)

Acute Toxicity - Fish
LC50 96 hours > 100 mg/l Brachydanio rerio (Zebra Fish)
LC50 96 hours > 100 mg/l Onchorhynchus mykiss (Rainbow trout)
Acute Toxicity - Aquatic Invertebrates
EC50 48 hours 16 mg/l Daphnia magna
Acute Toxicity - Aquatic Plants
EC50 72 hours 12 mg/l Scenedesmus subspicatus

12.2. Persistence and degradability

Degradability
No data available.

12.3. Bioaccumulative potential

Bioaccumulative potential
No data available on bioaccumulation.

Ecological information on ingredients.**m-phenylenebis(methylamine) (CAS: 1477-55-0)**

Bioaccumulation factor
BCF 2.69134803
Partition coefficient
log Pow 0.18

12.4. Mobility in soil**12.5. Results of PBT and vPvB assessment****12.6. Other adverse effects**

SPO/W221 - HIGH PERFORMANCE PRIMER - HARDENER**SECTION 13: DISPOSAL CONSIDERATIONS**

General information

When handling waste, consideration should be made to the safety precautions applying to handling of the product. Waste is classified as hazardous waste. Disposal to licensed waste disposal site in accordance with the local Waste Disposal Authority. May be incinerated in a suitable facility provided local regulations are observed.

13.1. Waste treatment methods

Dispose of waste and residues in accordance with local authority requirements. Incinerate with provision for removal of effluent gases by scrubber.

Waste Class

Used containers, drained and/or rigorously scraped out and containing dry residues of the supplied coating, are categorised as non-hazardous waste, with code 15 01 02 (plastic packaging) or 15 01 04 (metal packaging). Wear protective clothing during disposal operations. If disposal is by waste contractor, make sure that he has sufficient information and that waste containers are properly labelled. Ideally this component should be mixed with the appropriate resin base and allowed to react fully producing a solid non hazardous waste.

SECTION 14: TRANSPORT INFORMATION

General

The product is not covered by international regulation on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number**14.2. UN proper shipping name****14.3. Transport hazard class(es)****14.4. Packing group****14.5. Environmental hazards**

Environmentally Hazardous Substance/Marine Pollutant
No.

14.6. Special precautions for user**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

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 Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health.

Approved Code Of Practice

Safety Data Sheets for Substances and Preparations. Classification and Labelling of Substances and Preparations Dangerous for Supply. Dangerous Substances and Explosive Atmospheres Regulations 2002 [L138]

Guidance Notes

Workplace Exposure Limits EH40. CHIP for everyone HSG(108).

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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), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

National Regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2002. No. 1689.

15.2. Chemical Safety Assessment

No chemical safety assessment has been carried out.

SECTION 16: OTHER INFORMATION

Revision Comments

Issued in new format for Reach compliance in accordance with EC 1272/2008 Issued in accordance with Annex II to REACH, as amended by Commission Regulation (EU) No. 453/2010 Update for CLP labelling.

Issued By	Technical Dept. (P.E.)
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Revision	2
Supersedes date	19/11/2013
SDS No.	11491
Safety Data Sheet Status	Approved.
Date	Date Printed
Signature	Initials

Risk Phrases In Full

R34	Causes burns.
R20/22	Harmful by inhalation and if swallowed.
R21/22	Harmful in contact with skin and if swallowed.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R43	May cause sensitisation by skin contact.
NC	Not classified.

Hazard Statements In Full

H314	Causes severe skin burns and eye damage.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H412	Harmful to aquatic life with long lasting effects.
H317	May cause an allergic skin reaction.
H331	Toxic if inhaled.

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.