

# SAFETY DATA SHEET

5401 Impregnation Primer (Base)

## 1. Identification of the preparation and of the company

**Product name and/or code** : 5401 Impregnation Primer (Base)  
**Product use** : Andrews Coatings Ltd. Carver Building, Littles Lane  
**Manufacturer** : Wolverhampton, West Midlands, WV1 1JY  
 Telephone Number: 01902 429190, Fax Number: 01902 426574  
**Emergency phone:** : Email: sales@andrewscoatings.co.uk

## 2. Composition/information on ingredients

Substances presenting a health or environmental hazard within the meaning of the Dangerous Substances Directive 67/548/EEC.

Chemical name*	CAS no.	%	EC nr.	Classification
<b>United Kingdom (UK)</b> Bisphenol-A-epoxy resin avg.mol.wght.< 700		50 - 100	500-033-5	Xi; R36/38 R43
Bisphenol-F-epoxy resin avg.mol.wght. < 700		10 - 25	500-006-8	N; R51/53 Xi; R36/38 R43
C12-C15 Alkylglycidylether	68609-97-2	10 - 25	271-846-8	N; R51/53 Xi; R38 R43
<b>See section 16 for the full text of the R-phrases declared above</b>				

Occupational exposure limits, if available, are listed in section 8.

## 3. Hazards identification

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

**Classification** : Xi; R36/38  
R43  
N; R51/53

**Human health hazards** : Irritating to eyes and skin. May cause sensitization by skin contact.

**Environmental hazards** : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**Additional warning phrases** : Contains epoxy constituents. See information supplied by the manufacturer. This information is provided by the current Safety Data Sheet.

The preparation may be a skin sensitizer. It may also be a skin irritant and repeated contact may increase this effect.

## 4. First aid measures

### First aid measures

**General** : In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.

**Inhalation** : Inhalation not likely under normal use conditions.

**Skin contact** : Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognized skin cleanser. Do not use solvents or thinners.

**Eye contact** : Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open.

**Ingestion** : If swallowed, seek medical advice immediately and show this container or label. Keep person warm and at rest. Do not induce vomiting.

## 5. Fire-fighting measures

**Extinguishing media** : Recommended: alcohol-resistant foam, CO<sub>2</sub>, powders, water spray.  
Not to be used : water jet.

**Recommendations** : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard. Appropriate breathing apparatus may be required. Cool closed containers exposed to fire with water. Do not release runoff from fire to sewers or waterways.

## 5. Fire-fighting measures

- Hazardous combustion products** : Decomposition products may include the following materials:  
carbon oxides  
halogenated compounds

## 6. Accidental release measures

- Personal precautions** : Provide adequate ventilation. Refer to protective measures listed in sections 7 and 8.
- Spill** : Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Do not allow to enter drains or watercourses. Preferably clean with a detergent. Avoid using solvents. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.

**Note:** see section 8 for personal protective equipment and section 13 for waste disposal.

## 7. Handling and storage

- Handling** : Keep container tightly closed. Keep away from heat, sparks and flame. No sparking tools should be used.
- Avoid contact with skin and eyes. Avoid inhalation of dust from sanding.
- Eating, drinking and smoking should be prohibited in area where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking.
- Put on appropriate personal protective equipment (see section 8).
- Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one.
- Comply with the health and safety at work laws.
- Storage** : Store in accordance with local regulations. Observe label precautions. Store in a cool, well-ventilated area away from incompatible materials and ignition sources.
- Keep away from: oxidizing agents, strong alkalis, strong acids.  
No smoking. Prevent unauthorized access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.  
Do not empty into drains..

## 8. Exposure controls/personal protection

- Engineering measures** : No special measures are required. General ventilation is typically sufficient. Provide eye wash and quick drench shower close to work station.

- Occupational exposure limits** : Not available.

### Exposure controls

- Occupational exposure controls** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

- Respiratory protection** : A respirator is not needed under normal and intended conditions of product use.

- Hand protection** : >8 hours (breakthrough time): gloves, neoprene (EN 374-1).

- Eye protection** : Recommended: safety glasses with side-shields (EN 166) .

- Skin protection** : Recommended: overall (EN 467) .

- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Environmental exposure controls

- Do not allow to enter drains or watercourses.

## 9. Physical and chemical properties

<b>Physical state</b>	: Liquid. (Paste.)
<b>Odor</b>	: Odorless.
<b>Color</b>	: Amber.
<b>Flash point</b>	: Closed cup: >130°C (266°F).
<b>Boiling point</b>	: >200°C (392°F)
<b>Volatility %</b>	: 0% (v/v), 0% (w/w)
<b>VOC content w/w</b>	: 0 (g/l).
<b>Solubility</b>	: Partially soluble in the following materials: acetone. Insoluble in the following materials: cold water and hot water.
<b>Relative density</b>	: 1.1 (Water = 1)
<b>Viscosity</b>	: Dynamic: >1000 cP
<b>pH</b>	: Basic.

## 10. Stability and reactivity

Stable under recommended storage and handling conditions (see section 7).

Hazardous decomposition products: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Keep away from the following materials to prevent strong exothermic reactions: oxidizing agents, strong alkalis, strong acids.

## 11. Toxicological information

There is no data available on the preparation itself. The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and classified for toxicological hazards accordingly. See sections 2 and 15 for details.

Based on the properties of epoxy constituent(s) and considering toxicological data on similar preparations, this preparation may be a skin sensitizer and a severe irritant. It contains epoxy-based reactive diluents which are moderately to severely irritating to eyes, mucous membranes and skin and are strong sensitizers. Repeated skin contact may lead to irritation and to hypersensitivity, possibly with cross-sensitization to other epoxies. Single oral exposure to doses of the epoxy-based reactive diluents at or close to the lethal dose has been shown to cause transient neurotoxic effects in animals in some cases. However, uptake through skin and by inhalation has not caused such effects in animals. Prolonged exposure to high concentrations may cause adverse effects in target organs such as the liver and kidneys.

Contains Bisphenol-A/F-epoxy resin avg.mol.wght. <700, Oxirane, mono[(C12-14-alkyloxy)methyl]derivs. May produce an allergic reaction.

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Bisphenol-A-epoxy resin avg.mol.wght. < 700	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	13600 mg/kg	-
	LD50 Oral	Mouse	20000 mg/kg	-
C12-C15 Alkylglycidylether	LD50 Oral	Rat	17100 mg/kg	-
	LD50 Oral	Rat	>10000 mg/kg	-

## 12. Ecological information

There is no data available on the preparation itself.  
Do not allow to enter drains or watercourses.

The preparation has been assessed following the conventional method of the Dangerous Preparations Directive 1999/45/EC and is classified for eco-toxicological properties accordingly. See sections 2 and 15 for details.

### Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
Bisphenol-A-epoxy resin avg.mol.wght. < 700	-	Acute EC50 2,8 mg/L	Daphnia	24 hours
	202	Acute EC50 1,4 to 1,7 mg/l	Daphnia	48 hours
	<i>Daphnia</i> sp. Acute Immobilization Test and Reproduction Test	-	-	-
	-	Acute LC50 3,1 mg/l	Fish - Golden orfe (leuciscus idus)	96 hours
	-	Acute LC50 9,4 mg/L	Fish - Zebra barbel (brachydanio rerio)	24 hours
	-	Acute LC50 3,1 mg/L	Fish - Fathead minnow (pimephales promelas)	24 hours
Bisphenol-F-epoxy resin avg.mol.wght. < 700	-	Acute EC50 3,5 mg/l	Daphnia	48 hours
	-	Acute LC50 5,7 mg/l	Fish - Golden orfe (leuciscus idus)	96 hours
C12-C15 Alkylglycidylether	-	Acute EC50 1 to 10 mg/L	Daphnia - daphnia	48 hours

### Ecological information

## 12. Ecological information

### Biodegradability

Product/ingredient name	Test	Result	Dose	Inoculum
Bisphenol-A-epoxy resin avg.mol.wght.< 700	OECD 302B Inherent Biodegradability: Zahn-Wellens / EMPA Test	12 % - 28 days	-	-
	OECD 301B Ready Biodegradability - CO <sub>2</sub> Evolution Test	10 to 16 % - 28 days	-	-

**Conclusion/Summary** : This product is estimated to have a very slow rate of biodegradation of less than 30% degradation over a test period of more than 28 days.

### Product/ingredient name

Bisphenol-A-epoxy resin avg.mol.wght.< 700  
Bisphenol-F-epoxy resin avg.mol.wght. < 700

### Aquatic half-life

-  
-

### Photolysis

-  
-

### Biodegradability

Not readily  
Not readily

### Bioaccumulative potential

#### Product/ingredient name

Bisphenol-A-epoxy resin avg.mol.wght.< 700  
C12-C15 Alkylglycidylether

#### LogP<sub>ow</sub>

>3  
>3

#### BCF

-  
-

#### Potential

high  
high

### AOX

: The product contains organically bound halogens and can contribute to the AOX value in waste water.

## 13. Disposal considerations

Do not allow to enter drains or watercourses.

Dispose of according to all federal, state and local applicable regulations.

**European waste catalogue (EWC)** : The European Waste Catalogue classification of this product, when disposed of as waste, is: 08 01 11\* waste paint and varnish containing organic solvents or other dangerous substances. If this product is mixed with other wastes, this code may no longer apply. If mixed with other wastes, the appropriate code should be assigned. For further information, contact your local waste authority.


### Hazardous waste

: Yes.

## 14. Transport information


**Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

### International transport regulations

Regulatory information	UN number	Proper shipping name	Classes	PG*	Label	Additional information
<b>ADR/RID Class</b>	3082	Environmentally hazardous substance, liquid, n.o.s. Limited quantity	9	III		<b>Hazard identification number</b> 90  <b>Limited quantity</b> LQ7  <b>CEFIC Tremcard</b> 90G01  <b>Remarks</b> Limited Quantity - ADR/IMDG 3.4.6
<b>IMDG Class</b>	3082	Environmentally hazardous substance, liquid, n.o.s. Limited quantity	9	III		<b>Emergency schedules (EmS)</b> F-A, S-F  <b>Remarks</b> Limited Quantity - ADR/IMDG 3.4.6
<b>IATA Class</b>	3082	Environmentally hazardous substance, liquid, n.o.s. (epoxyresin)	9	III		<b>Packaging instruction</b> 914

PG\* : Packing group

## 15. Regulatory information

- EU regulations** : The product is classified and labelled for supply in accordance with the Directive 1999/45/EC as follows:
- Hazard symbol(s)** : 
- Risk phrases** : Irritant, Dangerous for the environment.  
 R36/38- Irritating to eyes and skin.  
 R43- May cause sensitization by skin contact.  
 R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- Safety phrases** : S24/25- Avoid contact with skin and eyes.  
 S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
 S37- Wear suitable gloves.  
 S56- Dispose of this material and its container at hazardous or special waste collection point.  
 S61- Avoid release to the environment. Refer to special instructions/safety data sheet.
- Contains** : Bisphenol-A/F-epoxy resin avg.mol.wght. < 700  
 C12-C15 Alkylglycidylether
- Europe inventory** : **Europe inventory:** All components are listed or exempted.
- Other EU regulations**
- Additional warning phrases** : Contains epoxy constituents. See information supplied by the manufacturer. This information is provided by the current Safety Data Sheet.
- CN code** : 3824 90 70
- National regulations**
- Industrial use** : The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.

## 16. Other information

- CEPE Classification** : 1
- Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK)** : R36/38- Irritating to eyes and skin.  
 R38- Irritating to skin.  
 R43- May cause sensitization by skin contact.  
 R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The information in this Safety Data Sheet is required pursuant to EU Directive 91/155/EEC and its amendments.

### Notice to reader

*The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties. ©Copyright by Rust-Oleum Netherlands B.V. / Martin Mathys B.V.*



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Rustoleum Aerosols, Carver Building, Littles Lane, Wolverhampton WV1 1JY  
 Tel: 01902 712286 Email: [sales@rustoleumaerosols.co.uk](mailto:sales@rustoleumaerosols.co.uk)  
 Fax: 01902 426574 Web: [www.rustoleumaerosols.co.uk](http://www.rustoleumaerosols.co.uk)