



# SAFETY DATA SHEET

Surfa-Etch 108

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

**Product name and/or code** Andrews Coatings Ltd. Carver Building, Littles Lane  
**Product use** Wolverhampton, West Midlands, WV1 1JY  
**Manufacturer** 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>				
Phosphoric acid	7664-38-2	10 - 25	231-633-2	C; R34
Isopropyl alcohol	67-63-0	2.5 - 5	200-661-7	F; R11 Xi; R36 R67
See section 16 for the full text of the R-phrases declared above				

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  
**Human health hazards** : Irritating to eyes and skin.

## 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** : 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.  
**Hazardous combustion products** : Decomposition products may include the following materials:  
 carbon oxides  
 phosphorus oxides

## 6. Accidental release measures

**Personal precautions** : Exclude sources of ignition and ventilate the area. Avoid breathing vapor or mist. Refer to protective measures listed in sections 7 and 8.  
**Spill** : Dike area of fire to prevent runoff. Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations. Neutralize acids by applying basic substances (soda ash or lime) or use an acid spill kit. Finish cleaning the spill area with running water.

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

## 7. Handling and storage

- Handling** :
- Vapors are heavier than air and may spread along floors. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapors in air and avoid vapor concentrations higher than the occupational exposure limits.
  - Keep container tightly closed. Keep away from heat, sparks and flame.
  - Avoid contact with skin and eyes.
  - 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).
  - 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** :
- Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapors below the OEL, suitable respiratory protection must be worn.

<u>Ingredient name</u>	<u>Occupational exposure limits</u>
<b>United Kingdom (UK)</b> Isopropyl alcohol	<b>EH40-WEL (United Kingdom (UK), 1/2005).</b> STEL: 1250 mg/m <sup>3</sup> 15 minute(s). Form: All forms STEL: 500 ppm 15 minute(s). Form: All forms TWA: 999 mg/m <sup>3</sup> 8 hour(s). Form: All forms TWA: 400 ppm 8 hour(s). Form: All forms

### Exposure controls

- Occupational exposure controls** :
- No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.
- 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** :
- Respirator is not needed under normal and intended conditions of use, if exposures are kept below established limits. In case of insufficient ventilation, wear suitable respiratory equipment: organic vapor filter (Type A) . (EN 141)
- Hand protection** :
- Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Recommended: PVC (EN 374-1) (breakthrough time) >8 hours.
- Eye protection** :
- Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts. Wear safety glasses with side shields to prevent eye contact. (EN 166)
- Skin protection** :
- Recommended: overall (EN 467) .
- Other protection** :
- Where contact is likely, wear chemical resistant gloves, a chemical resistant suit, and boots. Wear apron or coverall if there is a risk of exposure to splashes. Consult your supervisor or S.O.P. for special handling instructions.
- 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.
<b>Odor</b>	: Odorless.
<b>Color</b>	: Red.
<b>Boiling point</b>	: > 100 °C
<b>Vapor pressure</b>	: 2 kPa (15 mm Hg) (at 20°C)
<b>Evaporation rate (butyl acetate = 1)</b>	: <1 compared with Butyl acetate.
<b>Volatility %</b>	: 75% (w/w)
<b>VOC content w/w</b>	: 45 (g/l).
<b>Solubility</b>	: Easily soluble in the following materials: cold water and hot water. Very slightly soluble in the following materials: methanol and acetone. Insoluble in the following materials: diethyl ether and n-octanol.
<b>Relative density</b>	: 1,14
<b>pH</b>	: 1 [Acidic.]

## 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.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Phosphoric acid	LD50 Dermal	Rabbit	2740 mg/kg	-
	LD50 Oral	Rat	1,25 g/kg	-
	LD50 Oral	Rat	1530 mg/kg	-
Isopropyl alcohol	LD50 Dermal	Rabbit	12800 mg/kg	-
	LD50 Oral	Rabbit	6410 mg/kg	-
	LD50 Oral	Rat	5045 mg/kg	-
	LD50 Oral	Mouse	3600 mg/kg	-
	LDLo Oral	Human/30 min	3570 mg/kg	-
	LDLo Oral	Dog	1537 mg/kg	-
	LC50 Inhalation Vapor	Rat	30 mg/L	4 hours
	LC50 Inhalation Vapor	Rat	16000 ppm	4 hours
	LCLo Inhalation Vapor	Mouse	12800 ppm	3 hours
	LCLo Inhalation Vapor	Rat	16000 ppm	4 hours

## 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 not classified as dangerous for the environment.

### Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
Phosphoric acid	-	Acute LC50 138 mg/L	Fish	24 hours
Isopropyl alcohol	Behavior	Acute EC50 10000 mg/L	Fish - Fathead minnow (pimephales promelas)	48 hours
	Mortality	Acute LC50 10400 mg/L	Fish - Fathead minnow (pimephales promelas)	96 hours
	Mortality	Acute LC50 11130 mg/L	Fish - Fathead minnow (pimephales promelas)	96 hours
	Mortality	Acute LC50 9640 mg/L	Fish - Fathead minnow (pimephales promelas)	96 hours
	Mortality	Acute LC50 6550 mg/L	Fish - Fathead minnow (pimephales promelas)	96 hours
	Mortality	Acute LC50 >1400 mg/L	Fish - Bluegill sunfish (lepomis macrochirus)	96 hours

### Ecological information

Product/ingredient name	Aquatic half-life	Photolysis
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## 12. Ecological information

<u>Product/ingredient name</u>	<u>LogP<sub>ow</sub></u>	<u>BCF</u>	<u>Potential</u>
Isopropyl alcohol	0.1	-	low

Biodegradability  
Readily

## 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: 06 01 04\* phosphoric and phosphorous acid. 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>	1805	Phosphoric acid	8	III		<b>Hazard identification number</b> 80  <b>Limited quantity</b> LQ7  <b>CEFIC Tremcard</b> 82
<b>IMDG Class</b>	1805	Phosphoric acid Limited quantity	8	III		<b>Emergency schedules (EmS)</b> F-A, S-B
<b>IATA Class</b>	1805	Phosphoric acid	8	III		<b>Passenger and Cargo Aircraft</b> Quantity limitation: 5 L Packaging instructions: 819 <b>Cargo Aircraft Only</b> Quantity limitation: 60 L Packaging instructions: 821 <b>Limited Quantities - Passenger Aircraft</b> Quantity limitation: 1 L Packaging instructions: Y819

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)** :



Irritant

**Risk phrases** : R36/38- Irritating to eyes and skin.

**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.  
S51- Use only in well-ventilated areas.

**Europe inventory** : **Europe inventory:** Not determined.

## 15. Regulatory information

### Other EU regulations

CN code : 2809 20 00

### 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)** : R11- Highly flammable.  
R34- Causes burns.  
R36- Irritating to eyes.  
R36/38- Irritating to eyes and skin.  
R67- Vapors may cause drowsiness and dizziness.

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, Little's 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)