

# SAFETY DATA SHEET

Revision: 05 February 2016

Version number: 2

## SECTION 1: Identification of the substance/mixture and company/undertaking

<b>1.1 Product identifier</b>	<b>Retainagroup Glass Etch</b> Product code: RET01
<b>1.2 Relevant identified uses of the substance or mixture and uses advised against</b>	Security Marking fluid for Glass. Uses advised against: not available.
<b>1.3 Details of the supplier of the safety data sheet</b>	Retainagroup Ltd, Unit 5 St Johns Court, Foster Road, Ashford, Kent TN24 0SJ; Tel 01233-506400; Fax 01233-506401; E-mail factory@retainagroup.co.uk.
<b>1.4 Emergency telephone number</b>	Retainagroup Ltd: 01233-506400 (9 am to 5 pm, Mon to Fri).

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 Tox 4, H302; Eye Irrit 2, H319.

Classification according to Directive 1999/45/EC Xn, R22; Xi, R36.

See Section 16 'Other information' for full text of the R- and H-phrases.

### 2.2 Label elements



Signal word Warning

Hazard statements Harmful if swallowed.  
Causes serious eye irritation.

Precautionary statements

prevention Use and apply only as indicated in instructions.  
Personal protective equipment is not normally required due to the volumes supplied (<= 250ml) and individual application methods unless a risk assessment indicates the need for it.

response If eye irritation persists or if concerned: Seek medical attention.

storage None.

disposal None.

### 2.3 Other hazards

None.

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## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures <sup>a,b</sup>

Declarable components	Conc. (wt%)	EC No.	CAS No.	Reg. No.	Classification	
					67/548/EEC	1272/2008
Sodium fluoride	18.1	231-667-8	7681-49-4	01-2119539420-47-0004	T, R22; Xi, R36	H302; H319
<i>Other components</i>						
Water	25–50	231-791-2	7732-18-5	NA	Not classified	Not classified

<sup>a</sup> NA: not available.

<sup>b</sup> See Section 16 'Other information' for full text of the R- and H-phrases.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

Inhalation	Inhalation is highly unlikely since the product is non-volatile and does not emit any vapour at normal room temperatures.
Skin	Non-irritant to skin. Although prolonged and repeated exposure could cause a dermatitis reaction. Therefore wash off immediately with plenty of soap and water.
Eye	In case of contact with eyes, irrigate with room-temperature water or eyewash solution for several minutes, occasionally lifting eyelids. Remove any contact lenses if easy to do. Continue rinsing. Consult a doctor if irritation persists.
Ingestion	If swallowed, rinse mouth thoroughly and drink water. Get prompt medical attention. Do not induce vomiting, unless instructed by medical personnel.

**4.2 Most important symptoms and effects, both acute and delayed** Serious eye irritant. Harmful if swallowed.

**4.3 Indication of any immediate medical attention and special treatment needed** Treat symptoms as they occur.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable	Water spray, foam, dry powder, and carbon dioxide extinguishers are suitable.
Unsuitable	None.

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|--|---|
| <b>5.2 Special hazards arising from the substance or mixture</b> | The product is an aqueous solution, and is not classified as flammable. However, if involved in a fire, product will decompose giving toxic fumes under conditions of intense heat. |
| <b>5.3 Advice for firefighters</b>                               | Remove containers from fire or cool them with water spray.  |

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## SECTION 6: Accidental release measures

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|--|---|
| <b>6.1 Personal precautions, protective equipment and emergency procedures</b> | Refer to section 8 for personal protection details.   |
| <b>6.2 Environmental precautions</b>   | Prevent product from entering water courses or drainage system by absorption with inert material.   |
| <b>6.3 Methods and material for containment and cleaning up</b>                | Clean up spill as soon as possible.<br>For small quantities, wipe off with cloth or paper, and wash affected area with water and detergent.<br>For large quantities absorb with an inert material. Wash contaminated surfaces with water and detergent.<br>Collect spill, contaminated materials, and washings in a container for disposal. |
| <b>6.4 Reference to other sections</b>   | For recommended personal protective equipment, see Section 8.<br>For disposal considerations, see Section 13.   |

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## SECTION 7: Handling and storage

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|---|--|
| <b>7.1 Precautions for safe handling</b>                                | Avoid contact with the eyes, normal precautions when handling chemicals should be observed.<br>Contact with acids liberates toxic gas. |
| <b>7.2 Conditions for safe storage, including any incompatibilities</b> | Keep container tightly closed in an area away from direct sunlight. Store away from acids.   |
| <b>7.3 Specific end use(s)</b>  | Security marking of automotive glass, CE marking of industry glass.  |

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

- |                                    |   |
|------------------------------------|---|
| EU limit values                    | Not applicable.   |
| UK limit values                    | Not applicable.   |
| Monitoring procedure               | BS EN 14042:2003; Workplace Atmospheres; Guide for the Application and Use of Procedures for the Assessment of Exposure to Chemical and Biological Agents, or specific national equivalent. |
| Other: human health (DNELs, DMELs) | None.   |

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Other: environmental (PNEC)      None

## 8.2 Exposure controls

Engineering controls	None.
Personal protective equipment	The need for personal protective equipment should be based on a workplace risk assessment for the particular use. Avoid contact with the eyes.
Environmental exposure controls	None.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	Viscous cream liquid.
Odour	None.
Odour threshold	Not applicable.
pH	5
Melting/freezing point	Water, 0 °C
Initial boiling point/range	Water 100 °C
Flash point	Aqueous solution.
Evaporation rate	Not applicable.
Flammability (solid, gas)	Non-Flammable.
Flamm. or expl. limits	Not applicable.
Vapour pressure	Water 2310 Pa at 20 °C
Vapour density	Not applicable.
Relative density	Not applicable.
Solubilities	In water: miscible.
Partition coeff. (log K <sub>ow</sub> )	Not applicable.
Auto-ignition temp.	Not applicable.
Decomposition temp.	Not applicable.
Viscosity	Not applicable.
Explosive properties	Non-Flammable.
Oxidising properties	Not applicable.

**9.2 Other information**      None.

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## SECTION 10: Stability and reactivity

<b>10.1 Reactivity</b>	Not applicable.
<b>10.2 Chemical stability</b>	Stable.
<b>10.3 Possibility of hazardous reactions</b>	Contact with acids liberates toxic gas.
<b>10.4 Conditions to avoid</b>	None.
<b>10.5 Incompatible materials</b>	Strong acids.
<b>10.6 Hazardous decomposition products</b>	Not available.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

Acute toxicity	The product is classified as harmful by the oral route (Category 4). The fluid is a fully buffered solution which was tested under OECD regulations. Product: LD <sub>50</sub> (oral, rat) 672 mg/kg. Sodium fluoride: LD <sub>50</sub> (oral, rat) 148.5 mg/kg.
Skin corrosion/irritation	Dermal route: very slight transient irritation (rabbit test).
Serious eye damage/irritation	The product is expected to meet the criteria for classification (Category 2).
Ingestion	Harmful if swallowed. (H302)

## SECTION 12: Ecological information

<b>12.1 Toxicity</b>	Sodium fluoride: short-term LC <sub>50</sub> endpoints for fish range from 51 to 340 mg F/L. EC <sub>50</sub> values for daphnids range from 97 to 352 mg/L. EC <sub>50</sub> values of 10.5 to 39 mg/L are reported for marine invertebrates.
<b>12.2 Persistence and degradability</b>	Not available.
<b>12.3 Bioaccumulative potential</b>	Not available.
<b>12.4 Mobility in soil</b>	Not available.
<b>12.5 Results of PBT and vPvB assessment</b>	Not available.
<b>12.6 Other adverse effects</b>	Not available.

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## SECTION 13: Disposal considerations

**13.1 Waste treatment methods** Landfill or incineration is recommended for disposal of this product. Disposal via the drains may be considered for small, diluted quantities. Disposal must be in accordance with current national and local regulations.

## SECTION 14: Transport information

**14.1 UN Number** Not classified as dangerous goods for transport.

**14.2 UN proper shipping name** Not applicable.

**14.3 Transport hazard class(es)** Not applicable.

**14.4 Packing group** Not applicable.

**14.5 Environmental hazards** Not marine pollutant/environmentally hazardous.

**14.6 Special precautions for user** Not available.

**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: Workplace Exposure Limits EH40/2005, with 2007 supplement, Health and Safety Executive; Control of Substances Hazardous to Health Regulations 2002 (COSHH), as amended; COSHH Essentials: Easy steps to control chemicals; HSE Books 2003 (also available on the HSE web site).*

**15.2 Chemical safety assessment** Not available.

## SECTION 16: Other information

**Revisions** This SDS is the first version in EU CLP format and classified accordingly.

**Abbreviations** DNEL, derived no-effect level; DMEL, derived minimum effect level; PBT, persistent, bioaccumulative, and toxic; PNEC, predicted no-effect concentration; vPvB, very persistent, very bioaccumulative.

**Basis of classification** The mixture is self-classified on the basis of available information on the ingredients.

**List of R-phrases** R22, harmful if swallowed; R36, irritating to eyes.

**List of hazard statements** H302: Harmful if swallowed; H319: Causes serious eye irritation.

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Company Statement

**The information within this data sheet applies to large quantities of raw Sodium Fluoride whereas our fluid mixture contains only a very small percentage of this chemical and is supplied in containers of a maximum size of 250ml.  
Test reports on the safety of the fluid are available on request. The fluid has been used for more than 30 years without any health and safety issues. The marking of automotive windows and glass has been carried out successfully on over 13 million vehicles.**

*Disclaimer:* The information supplied in this Safety Data Sheet is designed only as guidance for the safe use, storage and handling of the product. The information is correct to the best of our knowledge and belief at the date of publication however no guarantee is made to its accuracy. This information relates only to the specific material designated and may not be valid for each material used in combination with any other materials or in any other process.