



# RESTORE

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of issue: 05/05/2016

Revision date: 26/02/2016

Version: 10.0

RESTORE

C8

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

#### 1.1. Product identifier

Product form : Mixture  
Product name : RESTORE  
Product code : C8  
Type of product : Technical product

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

##### 1.2.1. Relevant identified uses

Main use category : Professional use  
Industrial/Professional use spec : For professional use only  
Use of the substance/mixture : Liquid restorer for machine glass and dishwashers.

##### 1.2.2. Uses advised against

No additional information available

#### 1.3. Details of the supplier of the safety data sheet

SELDEN RESEARCH LIMITED

STADEN LANE, BUXTON, DERBYSHIRE, SK17 9RZ, UNITED KINGDOM  
Tel: 01298 26226 Fax: 01298 26540 Email: safety@selden.co.uk

#### 1.4. Emergency telephone number

Emergency number Mon to Fri 8.30am to 5.00pm - 01298 26226

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Classification according to Regulation (EC) No. 1272/2008 [CLP]

Skin Corr. 1A H314

Eye Dam. 1 H318

Full text of hazard classes and H-statements : see section 16

#### 2.2. Label elements

##### Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS05

Signal word (CLP) :

Danger

Hazard statements (CLP) :

H314 - Causes severe skin burns and eye damage

Precautionary statements (CLP) :

P264 - Wash hands thoroughly after handling  
P280 - Wear eye protection, protective gloves  
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P315 - Get immediate medical advice/attention  
P405 - Store locked up

#### 2.3. Other hazards

No additional information available

### SECTION 3: Composition/information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

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| Name  | Product identifier   | %       | Classification according to Regulation (EC) No. 1272/2008 [CLP]      |
|---|--|---------|--|
| phosphoric acid ... %, orthophosphoric acid ... % | (CAS No) 7664-38-2<br>(EC no) 231-633-2<br>(EC index no) 015-011-00-6                                | 15 - 30 | Skin Corr. 1B, H314  |
| sulphamidic acid, sulphamic acid, sulfamic acid   | (CAS No) 5329-14-6<br>(EC no) 226-218-8<br>(EC index no) 016-026-00-0<br>(REACH-no) 01-2119488633-28 | 1 - 5   | Eye Irrit. 2, H319<br>Skin Irrit. 2, H315<br>Aquatic Chronic 3, H412 |

Full text of H-statements: see section 16

**SECTION 4: First aid measures****4.1. Description of first aid measures**

|                                       |  |
|---------------------------------------|--|
| First-aid measures general            | : Get medical advice/attention if you feel unwell.   |
| First-aid measures after inhalation   | : Remove person to fresh air and keep comfortable for breathing.   |
| First-aid measures after skin contact | : Wash with plenty of soap and water. Take off immediately all contaminated clothing and wash it before reuse.                     |
| First-aid measures after eye contact  | : Immediately rinse with water for a prolonged period while holding the eyelids wide open. Get immediate medical advice/attention. |
| First-aid measures after ingestion    | : Do NOT induce vomiting. Rinse mouth. Drink plenty of water. Get medical advice/attention.  |

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

|                                      |                                     |
|--------------------------------------|-------------------------------------|
| Symptoms/injuries after inhalation   | : May cause respiratory irritation. |
| Symptoms/injuries after skin contact | : Burns.                            |
| Symptoms/injuries after eye contact  | : Causes serious eye damage.        |
| Symptoms/injuries after ingestion    | : Burns.                            |

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

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

Suitable extinguishing media : Carbon dioxide. Dry powder. Foam.

**5.2. Special hazards arising from the substance or mixture**

Hazardous decomposition products in case of fire : Corrosive vapours.

**5.3. Advice for firefighters**

No additional information available

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

Emergency procedures : Evacuate unnecessary personnel.

**6.1.2. For emergency responders**

Protective equipment : Use personal protective equipment as required.

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

For containment : Collect spillage.

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.

**6.4. Reference to other sections**

For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Precautions for safe handling : Avoid contact with skin and eyes.

Hygiene measures : Do not eat, drink or smoke when using this product.

**7.2. Conditions for safe storage, including any incompatibilities**

Technical measures : Does not require any specific or particular technical measures.

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|                            |  |
|----------------------------|--|
| Storage conditions         | : Keep container closed when not in use. |
| Incompatible products      | : Strong bases. Oxidizing agent.         |
| Incompatible materials     | : Metals.                                |
| Special rules on packaging | : Keep only in original container.       |

### 7.3. Specific end use(s)

No additional information available

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

No additional information available

### 8.2. Exposure controls

No additional information available

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|  |                     |
|--|---------------------|
| Physical state                             | : Liquid            |
| Appearance                                 | : Clear. Liquid.    |
| Colour                                     | : Colourless.       |
| Odour                                      | : odourless.        |
| Odour threshold                            | : No data available |
| pH   | : 2                 |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point                              | : No data available |
| Freezing point                             | : No data available |
| Boiling point                              | : No data available |
| Flash point                                | : No data available |
| Auto-ignition temperature                  | : No data available |
| Decomposition temperature                  | : No data available |
| Flammability (solid, gas)                  | : No data available |
| Vapour pressure                            | : No data available |
| Relative vapour density at 20 °C           | : No data available |
| Relative density                           | : 1.11              |
| Solubility                                 | : Soluble in water. |
| Log Pow                                    | : No data available |
| Viscosity, kinematic                       | : No data available |
| Viscosity, dynamic                         | : No data available |
| Explosive properties                       | : No data available |
| Oxidising properties                       | : No data available |
| Explosive limits                           | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

No additional information available

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No additional information available

### 10.4. Conditions to avoid

No additional information available

### 10.5. Incompatible materials

metals.

### 10.6. Hazardous decomposition products

No additional information available

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**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

|  |   |
|--|---|
| Acute toxicity                                     | : Not classified                                    |
| Skin corrosion/irritation                          | : Causes severe skin burns and eye damage.<br>pH: 2 |
| Serious eye damage/irritation                      | : Causes serious eye damage.<br>pH: 2               |
| Respiratory or skin sensitisation                  | : Not classified                                    |
| Germ cell mutagenicity                             | : Not classified                                    |
| Carcinogenicity                                    | : Not classified                                    |
| Reproductive toxicity                              | : Not classified                                    |
| Specific target organ toxicity (single exposure)   | : Not classified                                    |
| Specific target organ toxicity (repeated exposure) | : Not classified                                    |
| Aspiration hazard                                  | : Not classified                                    |

**SECTION 12: Ecological information****12.1. Toxicity****sulphamic acid, sulphamic acid, sulfamic acid (5329-14-6)**

|             |           |
|-------------|-----------|
| LC50 fish 1 | 70.3 mg/l |
|-------------|-----------|

**12.2. Persistence and degradability**

No additional information available

**12.3. Bioaccumulative potential****sulphamic acid, sulphamic acid, sulfamic acid (5329-14-6)**

|         |     |
|---------|-----|
| Log Pow | 0.1 |
|---------|-----|

**12.4. Mobility in soil**

No additional information available

**12.5. Results of PBT and vPvB assessment**

No additional information available

**12.6. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

No additional information available

**SECTION 14: Transport information**

In accordance with ADR / RID / IMDG / IATA / ADN

**14.1. UN number**

|               |        |
|---------------|--------|
| UN-No. (ADR)  | : 3264 |
| UN-No. (IMDG) | : 3264 |
| UN-No. (IATA) | : 3264 |

**14.2. UN proper shipping name**

|                                       |  |
|---------------------------------------|--|
| Proper Shipping Name (ADR)            | : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  |
| Proper Shipping Name (IMDG)           | : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  |
| Proper Shipping Name (IATA)           | : CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S.  |
| Transport document description (ADR)  | : UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SULPHAMIC ACID), 8, III, (E) |
| Transport document description (IMDG) | : UN 3264 CORROSIVE LIQUID, ACIDIC, INORGANIC, N.O.S. (PHOSPHORIC ACID, SULPHAMIC ACID), 8, III      |

**14.3. Transport hazard class(es)****ADR**

|                                  |     |
|----------------------------------|-----|
| Transport hazard class(es) (ADR) | : 8 |
|----------------------------------|-----|

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Danger labels (ADR) : 8

**IMDG**

Transport hazard class(es) (IMDG) : 8

Danger labels (IMDG) : 8

**IATA**

Transport hazard class(es) (IATA) : 8

Hazard labels (IATA) : 8

**14.4. Packing group**

Packing group (ADR) : III

Packing group (IMDG) : III

Packing group (IATA) : III

**14.5. Environmental hazards**

Dangerous for the environment : No

Marine pollutant : No

Other information : No supplementary information available

**14.6. Special precautions for user****- Overland transport**

Classification code (ADR) : C1

Special provisions (ADR) : 274

Limited quantities (ADR) : 5I

Excepted quantities (ADR) : E1

Packing instructions (ADR) : P001, IBC03, LP01, R001

Mixed packing provisions (ADR) : MP19

Portable tank and bulk container instructions (ADR) : T7

Portable tank and bulk container special provisions (ADR) : TP1, TP28

Tank code (ADR) : L4BN

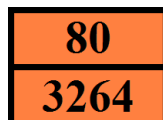
Vehicle for tank carriage : AT

Transport category (ADR) : 3

Special provisions for carriage - Packages (ADR) : V12

Hazard identification number (Kemler No.) : 80

Orange plates :



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Tunnel restriction code (ADR) : E  
 EAC code : 2X  
 APP code : B

**- Transport by sea**

Special provisions (IMDG) : 223, 274  
 Limited quantities (IMDG) : 5 L  
 Excepted quantities (IMDG) : E1  
 Packing instructions (IMDG) : P001, LP01  
 IBC packing instructions (IMDG) : IBC03  
 Tank instructions (IMDG) : T7  
 Tank special provisions (IMDG) : TP1, TP28  
 EmS-No. (Fire) : F-A  
 EmS-No. (Spillage) : S-B  
 Stowage category (IMDG) : A

**- Air transport**

PCA Excepted quantities (IATA) : E1  
 PCA Limited quantities (IATA) : Y841  
 PCA limited quantity max net quantity (IATA) : 1L  
 PCA packing instructions (IATA) : 852  
 PCA max net quantity (IATA) : 5L  
 CAO packing instructions (IATA) : 856  
 CAO max net quantity (IATA) : 60L  
 Special provisions (IATA) : A3  
 ERG code (IATA) : 8L

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

IBC code : Not applicable.

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU-Regulations**

Contains no REACH substances with Annex XVII restrictions  
 Contains no substance on the REACH candidate list  
 Contains no REACH Annex XIV substances

**15.1.2. National regulations**

No additional information available

**15.2. Chemical safety assessment**

No additional information available

**SECTION 16: Other information**

Full text of H- and EUH-statements:

|                   |   |
|-------------------|---|
| Aquatic Chronic 3 | Hazardous to the aquatic environment — Chronic Hazard, Category 3 |
| Eye Dam. 1        | Serious eye damage/eye irritation, Category 1                     |
| Eye Irrit. 2      | Serious eye damage/eye irritation, Category 2                     |
| Skin Corr. 1A     | Skin corrosion/irritation, Category 1A                            |
| Skin Corr. 1B     | Skin corrosion/irritation, Category 1B                            |
| Skin Irrit. 2     | Skin corrosion/irritation, Category 2                             |
| H314              | Causes severe skin burns and eye damage                           |
| H315              | Causes skin irritation  |
| H318              | Causes serious eye damage   |
| H319              | Causes serious eye irritation                                     |
| H412              | Harmful to aquatic life with long lasting effects                 |

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*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product*