

# SHIELD TECHNOLOGY LIMITED

## SAFETY DATA SHEET

In compliance with Article 31 and Annex II of Regulation (EC) No. 1907/2006 (REACH), Regulation (EC) No. 1272/2008 (CLP) and the Globally Harmonized System of Classification and Labelling of Chemicals (GHS)

**Revision Date: September 2015**

**Product Name:** Restore Pre-Clean

### **Section 1: Identification of the substance/preparation and of the company/undertaking.**

**Application:** Degreaser and Cleaner

**Manufacturer:** Shield Technology Ltd  
Unit 69 Grimsby Business Centre  
King Edward Street  
Grimsby DN31 3JH  
United Kingdom

**Telephone Number** +44 (0)1472 360699

**E-mail** [info@shieldtechnology.co.uk](mailto:info@shieldtechnology.co.uk)

**Emergency Telephone Number** 07743 300 454

### **Section 2: Hazards Identification**

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

Skin Corr. 1A, H314

Eye Irrit. 2, H319

Full text of H phrases see section 16 of SDS

#### **2.2. Label elements.**

**Hazard pictograms:** CLP 05 Corrosive



**Signal Word:** Danger

**Hazard statements:**

H314 Causes severe skin burns and eye damage.

**Precautionary statements:**

P101: If medical advice is needed, have product container or label to hand.

P102: Keep out of reach of children.

P103: Read label before use.

P264: Wash hands thoroughly after handling.

P280: Wear protective gloves and eye protection.

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing

P362: Take off contaminated clothing

P315: Get immediate medical advice/attention

**2.3 Other hazards** No additional information available

## **Section 3: Composition/Information on Ingredients**

### **3.1 Mixture**

#### **Hazardous ingredients**

<b>Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether</b>	
<b>Registration number (REACH)</b>	
<b>EC Number</b>	
<b>CAS</b>	Polymer DT03
<b>Content %</b>	< 3%

**CLP Classification** Eye Dam. 1, H318:  
Accute Tox 4 (oral), H302

<b>Sodium hydroxide, caustic soda</b>	
<b>Registration number (REACH)</b>	01-2119457892-27-XXXX
<b>Index No.</b>	011-002-00-6
<b>EC Number</b>	215-185-5
<b>CAS</b>	1310-73-2
<b>Content %</b>	< 3%

**CLP Classification** Skin Corr. 1A, H314

Note, the percentage values of each ingredient are those found in the concentrate and NOT in the diluted form. It is the users responsibility to dilute the concentrate with the correct amount of water as indicated on the product packaging.

## **Section 4: First Aid Measures**

### **4.1. Description of first aid measures**

<b>Inhalation</b>	Remove person from source of contamination, Supply person with fresh air and consult a doctor according to symptoms.
<b>Skin contact</b>	Remove contaminated clothing immediately and wash skin with plenty of soap and water.
<b>Eye contact</b>	Remove any contact lenses. Thoroughly irrigate the eye with clean cool water for 15 minutes while holding the eyelids wide open. Get immediate medical advice/attention.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth. Drink plenty of water. Get immediate medical advice/attention.

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

<b>Inhalation</b>	May cause respiratory irritation.
<b>Skin contact</b>	Burns.
<b>Eye contact</b>	Causes serious eye damage.
<b>Ingestion</b>	Burns.

## **Section 5: Fire Fighting Measures**

### **5.1 Suitable extinguishing media**

CO2, Dry Chemical powder, Foam

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

Exposure hazards: Corrosive. vapours

### **5.3 Advice for firefighters.**

No additional information available

---

## **Section 6: Accidental Release Measures**

### **6.1 Personal precautions, protective equipment & emergency procedures.**

Surfaces may become slippery after spillage. Use personal protection equipment as required.

### **6.2 Environmental precautions.**

Avoid release to the environment

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

Soak up with a suitable absorbent material (e.g. Universal binding material, sand, diatomaceous earth) Wash down with large quantity of water.

### **6.4 Reference to other sections.**

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

---

## **Section 7: Handling and Storage**

### **7.1 Precautions for safe handling**

Avoid direct contact skin and eyes. Do not eat, drink or smoke when using this product.

#### **7.1.1 General recommendations**

Avoid contact with eyes and skin.

Do not carry cleaning rags or cloth which are soaked/impregnated with the product about clothing.

Observe the directions for use and instructions provided.

#### **7.1.2 Notes on general hygiene measures at the workplace.**

General hygiene measures for the handling of chemicals are applicable

Wash hands before breaks and at the end of work.

Keep away from food, drink and animal feedstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food and drink are consumed.

### **7.2 Conditions of safe storage**

Store products closed and in original containers.

Store in a cool dry place.

**STORAGE:** Keep containers closed

Incompatible products: Oxidising agents. Strong acids.

Incompatible materials: Alloys of aluminium, zinc and magnesium

---

## **Section 8: Exposure controls/personal protection**

### **8.1 Control Parameters**

No data available

### **8.2 Exposure controls**



#### **8.2.1 Appropriate engineering controls**

No special measures needed.

#### **Eye/face protection:**

Safety goggles or Face shield. Ensure eye bath is available.

#### **Hand protection:**

No special precautions are needed beyond clean working conditions and safe handling practices. PVC or nitrile gloves may be suitable. If in doubt, gloves should be chosen in consultation with the glove supplier/manufacturer.

#### **Other skin and body protection.**

Wear suitable clothing as protection against splashing or contamination.

### **Hygiene measures**

Wash hands after using and before eating, smoking or using the toilet. Wash promptly with soap and water if skin becomes contaminated. Promptly remove any clothing that becomes contaminated. When using do not eat or drink.

### **Respiratory protection**

No special precautions are necessary for normal conditions of use.

### **Environmental exposure controls**

No special precautions are necessary.

---

## **Section 9.0 Physical and Chemical Properties**

<b>9.1 Appearance</b>	Pale blue liquid
<b>9.2 Odour</b>	Odourless
<b>9.3 Odour threshold</b>	N/A
<b>9.4 pH</b>	11 - 12
<b>9.5 Boiling Point/Range</b>	N/A
<b>9.6 Melting Point/Range</b>	N/A
<b>9.7 Evaporation rate</b>	N/A
<b>9.8 Flash point</b>	N/A
<b>9.9 Flammability</b>	None
<b>9.10 Autoflammability</b>	None
<b>9.11 Oxidising Properties</b>	N/A
<b>9.12 Vapour Pressure</b>	N/A
<b>9.13 Relative Density</b>	1.01 1.05
<b>9.14 Partitian coefficient:</b>	N/A
<b>9.15 Solubility</b>	Soluble in water
<b>9.16 Viscosity</b>	Non viscous
<b>9.17 Relative Vapour Density</b>	N/A
<b>9.18 Auto-ignition temperature</b>	N/A
<b>9.19 Decomposition temperature</b>	N/A

Information declared as N/A – Not available is not considered justified for enabling proper control measures to be taken

---

## **Section 10: Stability and reactivity**

### **10.1 Reactivity.**

No additional information available

### **10.2 Chemical stability**

Stable with proper storage and handling (store at ambient temperature).

### **10.3 Possibility of hazardous reactions**

No additional information available

### **10.4 Conditions to avoid.**

No additional information available

### **10.5 Incompatible materials.**

Avoid contact with alloys of aluminium, zinc and magnesium

### **10.6 Hazardous decomposition products.**

No data available

---

## **Section 11: Toxicological information.**

### **Hazardous ingredients:**

#### **Sodium hydroxide, caustic soda**

##### **11.1 Inhalation.**

Not classified

##### **11.2 Skin contact.**

Skin corrosion/irritation: Causes severe burns. pH 12

##### **11.3 Eye contact.**

Serious eye damage/irritation: Causes serious eye irritation: pH 12

##### **11.4 Ingestion.**

There may be a soreness of the mouth and throat. There may be difficulty swallowing. Corrosive burns may appear around the lips. Nausea and stomach pain may occur. There may be vomiting.

---

## **Section 12: Ecological information**

### **12.1 Ecotoxicity:**

#### **Hazardous ingredients:**

Oxirane, 2-methyl-, polymer with oxirane, mono(2-propylheptyl) ether (polymer\_DT03)

LC50 fishes 1: >10 - 100 mg/l

EC50 Daphnia 1: >10 - 100 mg/l

ErC50 (other aquatic plants): >10-100 mg/l

### **12.2 Persistence and degradability:**

No additional information available

### **12.3 Bioaccumulative potential:**

No additional information available

### **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:**

No special instructions for disposing of empty containers.

Recommendation: Pay attention to local and national official regulations

---

## **Section 14: Transport Information**

### **14.1 UN Number**

UN – No. (ADR/IMDG/IATA): 1760

### **14.2 UN proper shipping name**

Proper shipping name (ADR/IMDG/IATA): CORROSIVE LIQUID, N.O.S.

Transport document description (ADR): UN1760 CORROSIVE LIQUID, N.O.S. (SODIUM HYDROXIDE),8, III, (E)

Transport document description (IMDG): UN1760 CORROSIVE LIQUID, N.O.S. 8, III

### **14.3 Transport hazard class(es)**

Transport hazard class(es) (ADR / IMDG / IATA) : 8

Danger labels (ADR / IMDG / IATA) : 8 (CORROSIVE)

### **14.4 Packing Group**

Packing group (ADR / IMDG / IATA): III

### **14.5 Environmental hazards**

Dangerous for the environment: No

Marine pollutant: No

Other information: No additional information available

### **14.6 Special precautions for user**

Transport by land

Limited quantities (ADR): 5L

Transport by sea

Limited quantities (IMDG): 5L

Transport by air

PCA Limited quantities (IATA): Y841

PCA Limited quantity max net quantity (IATA): 1L



## **Section 15: Regulatory information**

### **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EU Regulations

Contains no substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

### **15.2 Chemical safety assessment**

No additional information available

---

## **Section 16: Other information**

This safety data sheet is prepared in accordance with Commission Reg. (EU) No. 453/2010

### **Full text of H and EUH – phrases:**

Acute Tox. 4 (Oral): Acute toxicity (oral), Category 4

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.

**H302:** Harmful if swallowed

**H314:** Causes severe skin burns and eye damage

**H318:** Causes serious eye damage

**H319:** Causes serious eye irritation

---

These data are presented in good faith and are believed to be accurate. However it is for users themselves as to the suitability of the product for their application.

Sources of information used in the compilation of this document includes manufacturers' Material Safety Data Sheets and Labels, CHIP Approved Supply lists, Codes of Practice and Guidance Notes.

### **Global Chemical Inventories**

**USA** All components are on the US TCSA inventory or are exempt.

**EU** All components are in compliance with the EC seventh amendment Directive 92/32/EEC.

**Japan** All components are in compliance with the Chemical Substances Control Law of Japan.

**Australia** All components are in compliance with Chemical notification requirements in Australia.

**Canada** All components are in compliance with the Canadian Environmental Protection Act and are present on the Domestic Substances List.

**Korea** All components are in compliance in Korea.

**Philippines** All components are in compliance with the Philippines Toxic Substances and Hazardous and Nuclear Wastes Control Act of 1990 (R.A.6969).

**China** All Components of this product are listed on the Inventory of existing Chemical Substances In China

---

END