

# SAFETY DATA SHEET

STRONGARM

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

### 1.1. Product identifier

Product name STRONGARM

Product number F040

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

Identified uses Hard surface cleaner

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

Supplier **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

National emergency telephone number Mon to Fri 8.30am to 5.00pm - 01298 26226

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Classification

##### Physical hazards

Not Classified

##### Health hazards

Skin Corr. 1A - H314 Eye Dam. 1 - H318

##### Environmental hazards

Not Classified

Classification (67/548/EEC or 1999/45/EC)

C;R34.

### 2.2. Label elements

#### Pictogram



Signal word Danger

#### Hazard statements

H314 Causes severe skin burns and eye damage.

#### Precautionary statements

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P102 Keep out of reach of children.  
P264 Wash hands thoroughly after handling.  
P280 Wear protective gloves, eye and face protection.  
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.

Contains SODIUM HYDROXIDE

### 2.3. Other hazards

No other hazards known. This product does not contain any substances classified as PBT or vPvB.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

<b>2-(2-BUTOXYETHOXY)ETHANOL</b> CAS number: 112-34-5 EC number: 203-961-6	5-10%
<b>Classification</b> Eye Irrit. 2 - H319	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xi;R36
<b>SODIUM HYDROXIDE</b> CAS number: 1310-73-2 EC number: 215-185-5	1-5%
<b>Classification</b> Met. Corr. 1 - H290 Skin Corr. 1A - H314	<b>Classification (67/548/EEC or 1999/45/EC)</b> C;R35
<b>ALCOHOL ETHOXYLATE</b> CAS number: — EC number: —	1-5%
<b>Classification</b> Acute Tox. 4 - H302 Eye Dam. 1 - H318	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R22. Xi;R41.
<b>Amphoteric surfactant</b> CAS number: 2605-79-0 EC number: 220-020-5 M factor (Acute) = 1	<1%
<b>Classification</b> Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Acute 1 - H400	<b>Classification (67/548/EEC or 1999/45/EC)</b> Xn;R22. Xi;R41. N;R50.

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

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CAUTION! First Aid personnel must be aware of own risk of burns. Chemical burns must be dealt with immediately, do not delay.

### **Inhalation**

Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Get medical attention if any discomfort continues. If breathing stops, provide artificial respiration.

### **Ingestion**

Do not induce vomiting. Give plenty of water to drink. Rinse mouth thoroughly with water. Get medical attention immediately.

### **Skin contact**

Immediately remove contaminated clothing. Rinse immediately with plenty of water. Get medical attention immediately. Continue to rinse for at least 15 minutes.

### **Eye contact**

Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Continue to rinse for at least 15 minutes and get medical attention.

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

### **General information**

The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

### **Inhalation**

Irritation of nose, throat and airway.

### **Ingestion**

Causes chemical burns to mouth, throat and stomach.

### **Skin contact**

Burning pain and severe corrosive skin damage. May cause serious chemical burns to the skin.

### **Eye contact**

Severe irritation, burning and tearing. Corneal damage.

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

### **Notes for the doctor**

Treat symptomatically.

## **SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

The product is non-combustible. Extinguish with the following media: Foam. Water spray. Dry chemicals, sand, dolomite etc. Use fire-extinguishing media suitable for the surrounding fire.

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

#### **Hazardous combustion products**

When heated, vapours/gases hazardous to health may be formed.

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

#### **Protective actions during firefighting**

Use water to keep fire exposed containers cool and disperse vapours.

#### **Special protective equipment for firefighters**

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

## **SECTION 6: Accidental release measures**

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

#### **Personal precautions**

For personal protection, see Section 8.

### **6.2. Environmental precautions**

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## Environmental precautions

Any spillage needs to be contained and not allowed to enter water courses. Spillages or uncontrolled discharges into watercourses must be reported immediately to the Environmental Agency or other appropriate regulatory body.

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

#### Methods for cleaning up

Wear suitable protective equipment, including gloves, goggles/face shield, respirator, boots, clothing or apron, as appropriate. Collect and place in suitable waste disposal containers and seal securely. For waste disposal, see Section 13. Inform authorities if large amounts are involved. Absorb in vermiculite, dry sand or earth and place into containers.

### 6.4. Reference to other sections

#### Reference to other sections

For personal protection, see Section 8. For waste disposal, see Section 13.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

#### Usage precautions

Avoid spilling. Avoid contact with skin and eyes.

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

#### Storage precautions

Store away from the following materials: Acids.

#### Storage class

Controlled substance storage.

### 7.3. Specific end use(s)

#### Specific end use(s)

The identified uses for this product are detailed in Section 1.2.

#### Usage description

See product label for detailed usage and instructions.

## **SECTION 8: Exposure Controls/personal protection**

### 8.1. Control parameters

#### Occupational exposure limits

#### **2-(2-BUTOXYETHOXY)ETHANOL**

Long-term exposure limit (8-hour TWA): WEL 10 ppm 67.5 mg/m<sup>3</sup>

Short-term exposure limit (15-minute): WEL 15 ppm 101.2 mg/m<sup>3</sup>

#### **SODIUM HYDROXIDE**

Long-term exposure limit (8-hour TWA): WEL

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit

#### Ingredient comments

WEL = Workplace Exposure Limits

### 8.2. Exposure controls

#### Protective equipment



#### Eye/face protection

Tight-fitting safety glasses.

#### Hand protection

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Nitrile gloves are recommended.

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

Wear suitable protective clothing as protection against splashing or contamination.

## **SECTION 9: Physical and Chemical Properties**

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

#### **Appearance**

Clear liquid. Liquid

#### **Colour**

Colourless.

#### **Odour**

Mild (or faint) Solvent.

#### **pH**

pH (concentrated solution): >13.0

#### **Relative density**

1.049 - 1.059 @ @ 20°C

#### **Solubility(ies)**

Soluble in water.

### **9.2. Other information**

#### **Other information**

None.

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

May react with other cleaning chemicals. For specific reactions refer to Section 10.5

### **10.2. Chemical stability**

#### **Stability**

Stable at normal ambient temperatures.

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

Not determined.

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

Avoid contact with acids.

### **10.5. Incompatible materials**

#### **Materials to avoid**

Strong acids. Reacts strongly with light metals such as aluminium and zinc, producing hydrogen which is Highly Flammable.

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

Oxides of carbon. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours.

## **SECTION 11: Toxicological information**

### **11.1. Information on toxicological effects**

#### **Toxicological effects**

No toxicological data is available for this mixture, however data can be provided for specific raw materials upon request.

#### **Acute toxicity - oral**

##### **ATE oral (mg/kg)**

17,543.85964912

#### **Inhalation**

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May cause damage to mucous membranes in nose, throat, lungs and bronchial system.

### **Ingestion**

Causes burns. Harmful if swallowed.

### **Skin contact**

Causes burns.

### **Eye contact**

Causes burns. Risk of serious damage to eyes.

## **SECTION 12: Ecological Information**

### **Ecotoxicity**

Not regarded as dangerous for the environment.

### **12.1. Toxicity**

Aquatic toxicity has not been carried out on this product. Data for raw materials contained in this product, when available, can be provided when necessary.

### **12.2. Persistence and degradability**

#### **Persistence and degradability**

The surfactants contained within the product comply with the biodegradability criteria as laid down in Regulation (EC) No 648/2004.

### **12.3. Bioaccumulative potential**

The product does not contain any substances expected to be bioaccumulating.

### **12.4. Mobility in soil**

#### **Mobility**

The product contains substances, which are water soluble and may spread in water systems.

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

This product does not contain any substances classified as PBT or vPvB.

### **12.6. Other adverse effects**

None known.

## **SECTION 13: Disposal considerations**

### **13.1. Waste treatment methods**

#### **Disposal methods**

Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

## **SECTION 14: Transport information**

### **14.1. UN number**

UN No. (ADR/RID)	1760
UN No. (IMDG)	1760
UN No. (ICAO)	1760

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

Proper shipping name (ADR/RID)	CORROSIVE LIQUID,NOS (Sodium hydroxide)
Proper shipping name (IMDG)	CORROSIVE LIQUID,NOS (Sodium hydroxide)
Proper shipping name (ICAO)	CORROSIVE LIQUID,NOS (Sodium hydroxide)
Proper shipping name (ADN)	CORROSIVE LIQUID,NOS (Sodium hydroxide)

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### 14.3. Transport hazard class(es)

ADR/RID class	8
IMDG class	8
ICAO class/division	8

#### Transport labels



### 14.4. Packing group

ADR/RID packing group	III
IMDG packing group	III
ICAO packing group	III

### 14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

### 14.6. Special precautions for user

Tunnel restriction code (E)

### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

## SECTION 15: Regulatory information

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

#### National regulations

The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (S.I 2009 No. 716). Control of Substances Hazardous to Health Regulations 2002 (as amended).

#### EU legislation

System of specific information relating to Dangerous Preparations. 2001/58/EC. Dangerous Preparations Directive 1999/45/EC. Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended). Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

#### Guidance

Workplace Exposure Limits EH40. Approved Classification and Labelling Guide (Sixth edition) L131. CHIP for everyone HSG228.

### 15.2. Chemical safety assessment

No chemical assessment has been carried out as this Safety Data Sheet is for a mixture.

## SECTION 16: Other information

#### General information

The following risk phrases relate to the raw materials in the product and not the product itself:-

#### Revision comments

Safety Data Sheet revised to be in accordance with EU Regulation No 453/2010 - REACH Regulations.

Revision date	05/12/2014
Revision	12

#### Risk phrases in full

## STRONGARM

R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.

R36 Irritating to eyes.

R35 Causes severe burns.

R41 Risk of serious damage to eyes.

R34 Causes burns.

R22 Harmful if swallowed.

R36/38 Irritating to eyes and skin.

### **Hazard statements in full**

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H400 Very toxic to aquatic life.