

STRONGARM**F040****1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

Product Code F040

Product Name STRONGARM

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2 HAZARDS IDENTIFICATION

R34 Causes burns.

Classification C;R34.

3 COMPOSITION/INFORMATION ON INGREDIENTS

| Name | EinCS No. | CAS No. | Content | Classification |
|-------------------------------|-----------|-----------|---------|------------------------|
| 2-(2-BUTOXYETHOXY)ETHANOL | 203-961-6 | 112-34-5 | 1 - 5% | Xi;R36 |
| 2-BUTOXYETHANOL | 203-905-0 | 111-76-2 | 1 - 5% | Xn;R20/21/22 Xi;R36/38 |
| ALCOHOL ETHOXYLATE SURFACTANT | | | 1 - 5% | Xn;R22. Xi;R41. |
| SODIUM HYDROXIDE | 215-185-5 | 1310-73-2 | 1 - 5% | C;R35 |

The Full Text for all R-Phrases are Displayed in Section 16

4 FIRST-AID MEASURES

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| GENERAL INFORMATION | CAUTION! First Aid personnel must be aware of own risk of burns., Chemical burns must be dealt with immediately, do not delay. |
| INHALATION | Remove victim immediately from source of exposure., Provide rest, warmth and fresh air., If breathing stops, provide artificial respiration., Get medical attention if any discomfort continues. |
| INGESTION | DO NOT INDUCE VOMITING!, Rinse mouth thoroughly., Drink plenty of water., Get medical attention immediately! |
| SKIN CONTACT | Immediately remove contaminated clothing., Rinse immediately with plenty of water., Continue to rinse for at least 15 minutes., Get medical attention immediately. |
| EYE CONTACT | Promptly wash eyes with plenty of water while lifting the eye lids., Continue to rinse for at least 15 minutes and get medical attention. |

5 FIRE-FIGHTING MEASURES

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| EXTINGUISHING MEDIA | The product is non-combustible., Use fire-extinguishing media appropriate for surrounding materials., Use:, Dry chemicals, sand, dolomite etc., Foam., Water spray. |
| SPECIAL FIRE FIGHTING PROCEDURES | Use water to keep fire exposed containers cool and disperse vapours. |

6 ACCIDENTAL RELEASE MEASURES

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| PERSONAL PRECAUTIONS | Wear necessary protective equipment., Absorb in vermiculite, dry sand or earth and place into containers., Collect spillage in containers, seal securely and deliver for disposal according to local regulations., Inform Authorities if large amounts are involved. |
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7 HANDLING AND STORAGE

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| USAGE PRECAUTIONS | Avoid spilling, skin and eye contact. |
| USAGE DESCRIPTION | Store separated from:, Acids. |
| STORAGE PRECAUTIONS | Controlled substance storage. |

8 EXPOSURE CONTROLS/PERSONAL PROTECTION**PROTECTIVE EQUIPMENT**

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| PROCESS CONDITIONS | Use engineering controls to reduce air contamination to permissible exposure level. |
| ENGINEERING MEASURES | Provide adequate general and local exhaust ventilation. |
| RESPIRATORY EQUIPMENT | No specific recommendation made, but respiratory protection must be used if the general level exceeds the Recommended Workplace Exposure Limit. |
| HAND PROTECTION | Use protective gloves. |
| EYE PROTECTION | Wear full-face visor or shield. |
| OTHER PROTECTION | Wear suitable protective clothing as protection against splashing or contamination. |

9 PHYSICAL AND CHEMICAL PROPERTIES

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|------------|---------------------------|
| APPEARANCE | Clear, Liquid |
| COLOUR | colourless |
| ODOUR | Mild (or faint), Solvent. |

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|--------------------------|-----------------------|
| RELATIVE DENSITY | 1.049 - 1.059 @ 20 °C |
| pH-VALUE, CONC. SOLUTION | >13.0 |
| SOLUBILITY | Soluble in water |

10 STABILITY AND REACTIVITY

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| STABILITY | Stable under normal temperature conditions. |
| CONDITIONS TO AVOID | Avoid contact with acids. |
| MATERIALS TO AVOID | Strong acids., Reacts strongly with light metals such as aluminium and zinc, producing hydrogen which is Highly Flammable. |

11 TOXICOLOGICAL INFORMATION

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| INHALATION | 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. |

12 ECOLOGICAL INFORMATION

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| ECOTOXICITY | Not regarded as dangerous for the environment. |
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13 DISPOSAL CONSIDERATIONS

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| DISPOSAL METHODS | Dispose of waste and residues in accordance with local authority requirements. |
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14 TRANSPORT INFORMATION

TRANSPORT LABELS



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| UN NO. ROAD | 1760 |
| UK ROAD CLASS | 8 |
| UK ROAD PACK GR. | III |
| ADR CLASS NO. | 8 |
| ADR CLASS | Class 8: Corrosive substances. |
| PROPER SHIPPING NAME | CORROSIVE LIQUID,NOS (Sodium hydroxide) |
| UN NO. SEA | 1760 |
| IMDG CLASS | 8 |
| UN NO. AIR | 1760 |
| AIR CLASS | 8 |

15 REGULATORY INFORMATION

LABELLING



Corrosive (C)

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|---------------------------|--|
| CONTAINS | SODIUM HYDROXIDE |
| RISK PHRASES | R34 Causes burns. |
| SAFETY PHRASES | S1/2 Keep locked up and out of the reach of children., S23 Do not breathe vapour/spray., S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice., S27 Take off immediately all contaminated clothing., S36/37/39 Wear suitable protective clothing, gloves and eye/face protection., S45 In case of accident or if you feel unwell, seek medical advice immediately (show label where possible)., S51 Use only in well-ventilated areas. |
| DETERGENT LABELLING | < 5% Amphoteric surfactants < 5% Non-ionic surfactants |
| STATUTORY INSTRUMENTS | Chemicals (Hazard Information and Packaging) Regulations., Control of Substances Hazardous to Health. |
| APPROVED CODE OF PRACTICE | Classification and Labelling of Substances and Preparations Dangerous for Supply. |
| GUIDANCE NOTES | Workplace Exposure Limits EH40., CHIP for everyone HSG(108). |

16 OTHER INFORMATION

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|------------------------------|---|
| GENERAL INFORMATION | The following risk phrases relate to the raw materials in the product and not the product itself:- |
| REVISION DATE | 25/01/2011 |
| REV. NO./REPL. SDS GENERATED | 10 |
| RISK PHRASES IN FULL | R20/21/22 Harmful by inhalation, in contact with skin and if swallowed., R36/38 Irritating to eyes and skin. R35 Causes severe burns. R36 Irritating to eyes. R22 Harmful if swallowed., R41 Risk of serious damage to eyes. |