

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

Product Code F040

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Product Name STRONGARM

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**2 HAZARDS IDENTIFICATION**

R34 Causes burns.

Classification C;R34.

**3 COMPOSITION/INFORMATION ON INGREDIENTS**

Name	EINICS No.	CAS No.	Content	Classification
2-BUTOXYETHANOL	203-905-0	111-76-2	5 - 10%	Xn;R20/21/22 Xi;R36/38
ALCOHOL ETHOXYLATE SURFACTANT			1 - 5%	Xn;R22. Xi;R41.
ANIONIC SURFACTANT			1 - 5%	Xi;R36/37/38.
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**

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**

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**

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**

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

**8 EXPOSURE CONTROLS/PERSONAL PROTECTION**

Name	Std	TWA - 8 hrs	STEL - 15 min	Notes
2-BUTOXYETHANOL	WEL	25 ppm(Sk)	50 ppm(Sk)	
SODIUM HYDROXIDE	WEL			2 mg/m3

**PROTECTIVE EQUIPMENT**

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**

APPEARANCE	Clear, Liquid
COLOUR	colourless
ODOUR	Mild (or faint), Solvent.
RELATIVE DENSITY	1.058 - 1.068 @ 20 °c
pH-VALUE, CONC. SOLUTION	>13.0
SOLUBILITY	Soluble in water

**10 STABILITY AND REACTIVITY**

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**

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**

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

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

## TRANSPORT LABELS



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)

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% Anionic 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**

GENERAL INFORMATION	The following risk phrases relate to the raw materials in the product and not the product itself:-
REVISION DATE	09/02/2010
REV. NO./REPL. SDS GENERATED	9
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.  R36/37/38 Irritating to eyes, respiratory system and skin.  R22 Harmful if swallowed., R41 Risk of serious damage to eyes.