

Thick Bleach

1. IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY					
Product Name		Bleach			
Identified Uses		A Thickened Sodium Hypochlorite based product used for cleaning and bleaching .			
Address / Phone Number		Delf (UK) Ltd Unit 2 Hickmans Road Birkenhead Wirral CH41 1JH Tel: (00 44) 151 630 0405 Fax: (00 44) 151 630 0406 E-mail: info@delf-uk.com			
Emergency Phone Number		IN AN EMERGENCY DIAL LOCAL EMMERGENCY SERVICES 999			
2. HAZARDS IDENTIFICATION					
<u>2.1 Classification of the Substance or Mixture</u>		Classification according to Regulation (EC) No 1272/2008			
Physical Hazard(s)		Corrosive			
Health Hazard(s)		Causes severe skin burns and eye damage Harmful if swallowed			
Environmental Hazard(s)		Toxic to Aquatic Life			
<u>2.2 Label Elements</u>		<div><div><div><div><div><div></div></div></div><div><div><div></div><div></div></div></div><div><div><div></div></div></div></div></div><div>GHS Pictogram</div><div>Corrosive</div></div>			
Hazard statements	H314	Causes severe skin burns and eye damage			
	H302	Harmful if swallowed			
	H400	Very toxic to aquatic life			
	EUH031	Contact with acids liberates toxic gas.			
Precautionary statements	P260	Do not breathe vapours.			
	P273	Avoid release to the environment.			
	P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.			
	P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.			
	P303 + P361 + P353	IF ON SKIN (or hair): Remove/ 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			
	P390	Absorb spillage to prevent material damage.			
Supplemental label information	EUH031	Contact with acids liberates toxic gas.			
<u>2.3 Other Hazards</u>		This product does not contain any substances classified as PBT or vPvB.			
3. COMPOSITION / INFORMATION					
Mixture		Contains Aqueous solution of Sodium Hypochlorite and Sodium Hydroxide.			
Alternative Names		Chlorinated CIP Cleaner			
Hazardous Ingredient(s)		CAS No:	EC No:	REACH REG No:	Concentration %
	Sodium Hypochlorite	7681-52-9	231-668-3		2 - 5 %
	Sodium Hydroxide	1310-73-2	215-185-5	01-2119457892-27-xxxx	0 - 1%
3. COMPOSITION / INFORMATION contd.					
		Classification (EC 1272/2008) GHS			
	Sodium Hypochlorite	Skin Corrosion. 1B - H314 Aquatic Acute 1 - H400			
	Sodium Hydroxide	Skin Corr. 1A - H314			
4. FIRST AID MEASURES					
<u>4.1 Description of First Aid Measures</u>					
Inhalation		If person inhales to spray mist move into fresh air, and if recovery is not rapid seek medical attention.			

4. FIRST AID MEASURES contd.			
Skin Contact	Remove contaminated clothing. Wash affected area with plenty of soap and water. If in doubt or symptoms persist obtain medical attention. Launder clothing before re-use.		
Eye Contact	SPEED IS ESSENTIAL. Immediately irrigate eye with plenty of water or eye-wash solution for 10 minutes. Obtain medical attention.		
Ingestion	Only if person is conscious, rinse mouth out with plenty of water and give 200-300ml water to drink. DO NOT INDUCE VOMITING. Keep patient at rest and obtain medical attention.		
4.2 Most Important Symptoms and Effects, Both Acute and Delayed			
General Information	The severity and nature of the symptoms described will vary dependant of the concentration and the length of exposure.		
Inhalation	Irritation of nose and throat		
Ingestion	May cause chemical burns to nose and throat.		
Skin Contact	Burning pain and corrosive skin damage. May cause chemical burns to the skin.		
Eye Contact	Extreme irritation of eyes and mucous membranes, including burning and tearing. Corneal damage.		
4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed			
	Treat Symptomatically		
5. FIRE FIGHTING MEASURES			
Non-combustible or flammable			
5.1 Extinguishing Media	Use extinguishing media suitable for surrounding fire or the cause of fire. Keep containers cool by spraying with water.		
5.2 Special Hazards	When heated and in case of fire, harmful vapours/gases may be formed.		
5.3 Fire Fighting Protective Equipment.	Wear self-contained breathing apparatus, and suitable protective clothing.		
6. ACCIDENTAL RELEASE MEASURES			
6.1 Personal Precautions	Avoid direct contact with skin, eyes and clothing. See exposure controls / personal protection (section 8).		
6.2 Environmental Precautions	Spillages or uncontrolled contamination of soil or discharges into watercourses, drains or sewers must be reported immediately to the Environment Agency, local water company or other appropriate regulatory bodies. Do not allow to contaminate vegetation, or enter drains or water courses.		
6.3 Methods and Material for Containment and Cleaning Up	Small Spillages: Flush area to drain with plenty of water. Large Spillages: Where possible, transfer to a container for reuse or disposal (see Disposal Considerations – Section 13). Contain and absorb using earth, sand or other inert material. Flush area to drain with plenty of water. Treat as industrial waste.		
6.4 Reference To Other Sections	. See exposure controls / personal protection (section 8).		
7. HANDLING AND STORAGE			
7.1 Precautions for Safe Handling	Wear Suitable protective clothing, gloves and eye/face protection. Use product in accordance with good industrial practices for handling and storing of hazardous chemicals. Avoid contact with skin and eyes. Do not mix with other chemicals. Avoid contact with acids.		
7.2. Conditions for Safe Storage, Including any Incompatibilities	Must only be kept in original packaging. Store in a cool dry well-ventilated area out of direct sunlight. Protect from extremes of temperature. Keep away from oxidising and acidic materials.		
7.3 Specific End Use(s)	Use of product identified in section 1.2. For more detailed information see Product Information Sheet.		
8. EXPOSURE CONTROL/PERSONAL PROTECTION			
8.1 Control Parameters			
Occupational Exposure Limits	Product	Long Term Exposure Limit (8 hr TWA)	Short Term Exposure Limit (15 Min)
	Sodium Hydroxide	-	2mg/m ³
	Chlorine	1.5 mg/m ³	2.9 mg/m ³
8.2 Exposure Controls			
Personal Protective Equipment	Wear protective clothing, Rubber boots, PVC gloves, and approved chemical safety goggles or face shield.		
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9. CHEMICAL AND PHYSICAL PROPERTIES			
Appearance	Straw coloured liquid	Specific Gravity (20°C) (g/ml)	1.05 +/- 0.02
Odour	Characteristic Chlorine	pH	13 approx.
Solubility	Soluble in water	Freezing Point	< 0° C

10. STABILITY AND REACTIVITY				
10.1. Reactivity	This product is can react with strong acids generating toxic gas and heat in contact with acid. The solution is strongly alkaline.			
10.2 Chemical Stability	Decomposes on heating and if exposed to daylight.			
10.3. Possibility of Hazardous Reactions	Reacts violently with acids. Contact with metals such as Aluminium, Zinc, Magnesium, Tin or their alloys will cause the formation of flammable Hydrogen gas.			
10.4. Conditions to Avoid	Excessive heat and direct sunlight.			
10.5. Incompatible Materials	Acids and ammonia solutions. Zinc or aluminium surfaces.			
10.6. Hazardous Decomposition Products	Noxious, toxic or corrosive vapours may be released in a fire situation, and chlorine gas when mixed with acids.			
11. TOXICOLOGICAL INFORMATION				
11.1 Toxicological information	We have not carried out any animal testing; as such we have no Toxicological Data particular to this product. The Toxicological Data, provided is supplied by the respective raw material manufacturer.			
Acute toxicity	Sodium Hydroxide LD50 (Oral, Rat) 325 mg/kg			
Inhalation	May cause severe irritation to respiratory system and mucous membranes.			
Skin contact	Causes severe burns and repeated or prolonged contact may cause dermatitis. May cause skin sensitisation.			
Eye contact	Causes severe burns. If treated <u>rapidly</u> , permanent damage may be avoided.			
Ingestion	May cause severe burns to mucous membranes and digestive tract. May cause nausea, and stomach pains.			
Long Term Exposure	Acute effects predominate.			
12.ECOLOGICAL INFORMATION				
12.1. Toxicity	Acute Toxicity to Fish Sodium Hydroxide: LC 50, 96 Hrs, FISH mg/l 33-189 EC 50, 48 Hrs, DAPHNIA, mg/l 40-240 Chlorine: Fish (Pimephales Promelas), LC50, 96 Hrs mg/l 22 - 0.62 , Daphnia magna, EC50, 96 Hrs mg/l 2.1, Algae, (Desmodesmus Subspicatus green algae)EC50, 24 Hrs, 28 mg/l			
12.2. Persistence and Degradability	Not expected to inhibit aerobic and anaerobic activity.			
12.3. Bio-accumulative Potential	It is not expected to bio-accumulate.			
12.4. Mobility in Soil	Soluble in water.			
12.5. Results of PBT and vPvB Assessment	This product does not contain any PBT or vPvB substances			
12.6. Other Adverse Effects	No data available			
13. DISPOSAL CONSIDERATIONS				
Waste	Large quantities may only be disposed of in accordance with Waste Disposal Regulations.			
14. TRANSPORT INFORMATION				
UN Transport Name	N/a			
UN Number	N/a			
UN Primary Class	N/a			
UN Packaging Group	N/a			
Transport Hazard Symbol		Limited Quantity Exemption	Combination Packaging	Inner Packagings placed in shrink-wrap or other stretch-wrapped tray
			Max net quantity	Max net quantity
			5 Litres per inner packaging	5 Litres per inner packaging
Packaging	5 Ltr, 25 Ltr, 200 Ltr and 1000 Ltr IBCs HDPE un containers			
Normal Carriage Temp.	Ambient.			
15. REGULATORY INFORMATION				
15.1. Safety, health and environmental regulations/ legislation specific for the substance or mixture	This Safety Data Sheet prepared in accordance with REACH - Regulation (EU) No 453/2010 (which amends Regulation (EC) No 1907/2006). - Regulation (EC) No 1272/2008 Product Classification Labelling elements, Ingredients and lists their classification in GHS / CLP format.			
15.1. Safety, health and environmental regulations/ legislation specific for the substance or mixture	Control of Substances Hazardous to Health Regulations.			
	Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations.			
	EH40 Occupational Exposure Limits.			
15.2. Chemical Safety Assessment	Not applicable this product is a mixture.			

16. OTHER INFORMATION

Legal Disclaimer	The above information is based on the present state of our knowledge of the product at the time of publication. It is given in good faith. For further details see Delf (UK) Ltd conditions of sale (additional copies of this are available on request).	
Date of issue	September 2016	Approved By: Dr J Lee