



Powder and Liquid Products Limited  
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<b>Section 1. Identification of the substance/Preparation</b>						
<b>Best in fresh Thick Bleach</b>						
Bleach						
In the event of an emergency please call 0800 0181217 manned during office hours or call Local Poison Control Centre Competent person responsible for Safety Data sheets - Matthew Parr – Technical Director ( <a href="mailto:Matthew@plp.co.uk">Matthew@plp.co.uk</a> )						
<b>Section 2. Hazards Identification</b>						
This preparation is not classified as dangerous according to Directive 1999/45/EC THIS PRODUCT CAN BE USED SAFELY WHEN USED AS DIRECTED AND WHEN APPLICABLE SAFETY PRECAUTIONS ARE FOLLOWED Contact with acids liberates toxic gas R31						
<b>Ingestion</b> – May cause transient gastrointestinal irritation with nausea, vomiting and/or diarrhoea						
<b>Eye contact</b> – Irritating to eyes R36						
<b>Skin contact</b> – Irritating to skin R38						
<b>Inhalation</b> - None						
<b>Section 3. Composition/information on ingredients</b>						
Bleach formulation						
Component	INCI	CAS	EINECS	% Range	Hazard	Risk
Chlorine based bleaching agent	Sodium Hypochlorite	7681-52-9	231-668-3	1.0-5.0	C	31 34
Sodium Hydroxide	Sodium Hydroxide	1310-73-2	215-185-5	0.1-1.0	C	35
Anionic Surfactants	Sodium Laureth Sulfate	68585-34-2	500-223-8	0.1-1.0	Xi	36/38 41
Nonionic surfactants	Alkyl Dimethylamine oxide	61788-90-7	263-016-9	0.1-1.0	Xi	36,38,41
Perfume	Parfum	N/A	N/A	0-0.1	Xn	10,65,52/53
Preservative - None						
<b>Section 4. First Aid Measures</b>						
Immediate medical attention is not usually required unless ingested						
<b>Inhalation</b> – Move to fresh air.						
<b>Ingestion</b> - In case of swallowing, seek medical advice immediately and show container or label. (S46) Do not induce vomiting						
<b>Skin Contact</b> – Remove contaminated clothing and product and flush with plenty of water						
<b>Eyes Contact</b> – Flush with large quantities of water for minimum of 15 minutes, if irritation persists seek medical advice						
<b>Other information</b> – Consumer packages have a caution statement. KEEP OUT OF REACH OF CHILDREN						
<b>Section 5. Fire-Fighting Measures</b>						
<b>Suitable extinguishing media</b> – The product is not combustible, CO <sub>2</sub> , water or dry chemical may be used.						
<b>Extinguishing media which shall not be used for safety reasons</b> – Not applicable						
<b>Special Exposure hazards</b> –Combustion products: Carbon Monoxide, Carbon Dioxide, traces of incomplete burned organic compounds						
<b>Special protective equipment for firefighters</b> – Use self contained breathing apparatus						
<b>Section 6. Accidental Release Measures</b>						
<b>Personal precautions</b> – Avoid eye and skin contact.						
<b>Environmental precautions</b> – Prevent spillage of large quantities of undiluted product in surface or groundwater.						
<b>Cleaning methods</b> –Absorb in earth or sand. Dispose contaminated material as waste according to item 13.						
<b>Section 7. Handling and Storage</b>						
<b>Handling</b> Information for safe handling including advice on technical measures - Avoid eye and skin contact. Information about fire and explosion protection – No special measurements required						
<b>Storage</b> Requirements to be met by storerooms and receptacles – No special measurements required Further information - Keep out of reach of children. Store in a cool, dry place.						
<b>Section 8. Exposure controls/ Personal Protection</b>						
Notes – This section mainly applies to the product when used in an industrial setting						
<b>Respiratory protection</b> – Not necessary.						
<b>Hand protection</b> – Protective gloves (rubber, neoprene) should be used for any prolonged direct contact						
<b>Eye protection</b> – If a splash of product in solution is likely, chemical goggles may be needed						
<b>Skin protection</b> – Protective						
<b>Section 9. Physical and Chemical Properties</b>						
<b>General information:</b>						
	<b>Physical State</b>	Viscous straw Liquid - Clear				
	<b>Odour</b>	Perfumed - Citrus				

<b>Health safety and environmental information:</b>		
<b>pH</b>	Neat ~14	<b>Relative density</b>
<b>Boiling point /boiling range</b>	Not applicable	<b>Solubility</b>
<b>Flash point</b>	Not applicable	1.055 typical Mostly soluble at 20°C
<b>Flammability</b>	Not applicable	<b>Water solubility</b>
<b>Explosive properties</b>	Not applicable	miscible
<b>Oxidising properties</b>	Not applicable	<b>Viscosity</b>
<b>Vapour pressure</b>	Not applicable	Not applicable
		<b>Vapour density</b>
		Not applicable
		<b>Evaporation rate</b>
		Not applicable
		<b>Other information</b>
<b>Section 10. Stability and Reactivity</b>		
<b>Stability</b>	Product is stable	
<b>Conditions to avoid</b>	Avoid excessive heat / Open flame	
<b>Materials to avoid</b>	None known	
<b>Hazardous decomposition products</b>	None known	
<b>Section 11. Toxicological information</b>		
<b>Inhalation</b>	Low potential for inhalation irritancy	
<b>Ingestion</b>	Low potential for ingestion irritancy	
<b>Skin Contact</b>	potential for skin irritancy; skin sensitisation potential	
<b>Eyes Contact</b>	potential for eye irritancy.	
<b>Repeated exposure</b>	Low order of toxicity upon repeated exposure	
<b>Section 12. Ecological information</b>		
<b>Ecotoxicity</b>	Surfactants in this product are biodegradable	
<b>Remarks</b>	Rapidly biodegradable under aerobic and anaerobic conditions. The level of biodegradation in both conditions is >70%. Its removal in municipal sewage treatment is expected to be >99%.	
<b>Section 13. Disposal Information</b>		
<b>Disposal is to be performed in compliance with all government and local regulations</b>		
<b>Product Recommendation</b> – Consumer produced household solutions may be disposed of to sewer.		
<b>Packaging recommendation</b> – The packaging may be recycled		
<b>Section 14. Transport Information</b>		
The finished product is non-hazardous for transport		
<b>Section 15. Regulatory information</b>		
<b>Health, safety and environmental information according to Directives 67/548/EEC and 1999/45/EC</b>		
<b>Supply classification:</b> Xi - Irritant		
<b>Hazard pictogram:</b> ☒ St Andrews Cross		
<b>Risk phases:</b> R31- Contact with acids liberates toxic gas, R36/38 – Irritating to eyes and skin		
<b>Safety phases:</b> S2- Keep out of the reach of children, S3 – Store upright in a cool place, S24/25 – Avoid contact with skin and eyes, S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice, S46 – If swallowed, seek medical advice immediately and show this container or label. S49 – Keep only in original container, S50 – Do not mix with other products. May release dangerous gases (Chlorine)		
Always rinse and dry hands thoroughly after use.		
<b>Section 16. Other information</b>		
Created: 140305		
<b>Risk Phrases (compositional information)</b>		
R10 – Flammable R31 – Contact with acids liberates toxic gas R34 – Causes burns R35 – Causes severe burns R36 – Irritating to eyes R38 – Irritating to skin R41 – Risk of serious damage to eyes	R52/53 – Harmful to aquatic organisms, may cause long term adverse effects in the aquatic environment R36/38 – Irritating to eyes and skin R65 – may cause lung damage if swallowed	
The submission of this MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied is for use only in connection with occupational safety and health. The information contained herein has been compiled from sources considered by PLP Ltd to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific material designated herein, and does not relate to the use in combination with any other material or any other process. PLP Ltd assumes no responsibility for injury to the recipient or third persons, for any damage to any property resulting from misuse of the controlled product.		
<b>Annex – Exposure Scenarios</b>		
Oral	Dermal	Inhalation
Accidental	Accidental	Not Expected