

PRODUCT SAFETY DATA SHEET

1 IDENTIFICATION OF PREPARATION AND THE SUPPLIER

Trade Name: Thick Bleach
Supplier: Chemical Solutions
42 Kennel Lane
Fetcham
Surrey KT22 9PJ
0870 2408893

2 INFORMATION ON INGREDIENTS

Product Description : Aqueous solution of sodium hypo chlorite, sodium hydroxide and surfactants.

Hazardous Ingredients:

Material or Component	CAS No	% Range	Symbol	Risk Phrases
Sodium Hypochlorite	7681-52-9	2-10	C	31/34
Sodium Hydroxide	1310-73-2	0-2	C	35
Anionic surfactant	13150-00-0	0-2	Xi	36/38
Fatty Amine Oxide	61788-90-7	0-2	Xi	36/38

3 HAZARDS IDENTIFICATION

Causes burns. Contact with acid liberates toxic gas

4 FIRST AID MEASURES

Eyes: Immediately irrigate with eyewash solution or clean water, holding the eyelids apart for at least 10 minutes. Obtain medical attention.

Skin: Remove contaminated clothing. Wash off immediately with water. Obtain immediate medical attention.

Ingestion: Wash out mouth with water, then give plenty of milk or water to drink and obtain urgent medical attention, showing the label. Do not induce vomiting.

Inhalation: Remove patient from exposure. If there is respiratory distress, give oxygen, then obtain urgent medical attention.

5 FIRE FIGHTING MEASURES

Extinguishing Media: Not classed as flammable. If involved in fire, may emit noxious and toxic fumes by reaction with other materials. Keep containers cool by water spray. Normal extinguishing media.

Protective Equip Fire Fighting: Full protective equipment.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear PVC gloves, footwear, chemically resistant overalls and eye/face protection.

Environmental Precautions: Wash spillage area with plenty of water. Flush washings to a sewage treatment system. Spillages or uncontrolled discharges into water courses must be alerted to National Rivers Authority.

Spillages: Absorb with sand, earth or other suitable absorbent material. transfer to a container for disposal according to local regulations.

7 HANDLING AND STORAGE

Handling: Wear gloves and eye/face protection when pouring the neat product.

Storage: Store in a cool place away from light, in the original, clearly labelled container. Keep tightly closed.

8 PERSONAL PROTECTION/EXPOSURE CONTROLS

Respiratory Protection: None required when used in well ventilated areas.

Hand Protection: Rubber gloves.

Eye Protection: Eye protection recommended.

Skin Protection: PVC or other impermeable suit. Chemical resistant footwear.

Occupational Exposure Limits:

Hazardous Ingredient(s)	LTEL 8hr TWA		STEL (15 mins)		Type	Notes
	ppm	mg/m3	ppm	mg/m3		
Sodium Hydroxide	-	-	-	2	OES	Relates to mist or sprays

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance/Colour:	Clear pale yellow viscous liquid
Odour:	Characteristic hypo chlorite
pH Value:	13
Boiling Range (oC):	104
Melting Point (oC):	-4
Flash Point (oC):	Boils without flashing
Auto Ignition Temp. (oC):	N/A
Explosive Limits in Air:	N/A
Vapour Pressure @20oC:	No data
Relative Density @20oC:	1.11g/ml
Water Solubility:	Completely soluble
Other Data:	Viscosity (at 20oC): 20 seconds through BS flow cup No.4

10 STABILITY AND REACTIVITY

Conditions to Avoid:	Temperatures above 40oC. Strong sunlight.
Materials to Avoid:	Acids or acidic products. Ammonia. Organic substances reducing agents.
Hazardous Decomposition:	Toxic chlorine gas is released if product is mixed with materials.

11 TOXICOLOGICAL INFORMATION

Eye Contact:	Severe damage, even on short duration.
Skin Contact:	Severe irritation and burns if contact is prolonged.
Ingestion:	Severe irritation and corrosion of the mouth, throat digestive tract.
Inhalation:	Exposure to spray causes severe irritation to the nose, and respiratory tract.
Sodium Hypochlorite	LD50 8910mg/kg (oral rat)
Sodium Hydroxide	LD50 500mg/kg (oral rbt) (10% solution)
Anionic surfactant	Toxic dose LD50 >2000mg/kg (oral rabbit)
Fatty Amine Oxide	LD50 >2000mg/kg (oral rat)

12 ECOLOGICAL INFORMATION

Biodegradability:	The surfactants are at least 90% biodegraded in the OECD screening test. The hypo chlorite is rapidly decomposed to mineral salts by chemical reaction with organic matter.
Toxicity:	Toxic to aquatic life. 0.4ppm available chlorine is toxic to game fish. 1ppm available chlorine is toxic to all fish.
Distribution:	Completely water soluble: no bioaccumulation.
Mobility:	Surfactants will not accumulate in sludge or sediments.
Sodium Hydroxide:	High pH values in sodium content has a potential to damage soil structure.
Aquatic Toxicity:	Highly toxic to aquatic organisms due to high pH.
Fatty Amine Oxide	Fish Toxicity LC50 14mg/l 96hrs (zebra fish) Bacteria Toxicity EC50 240mg/l

13 DISPOSAL CONSIDERATIONS

Product:	Dispose of sodium hypo chlorite solutions or materials contaminated with hypo chlorite using a licensed contractor in accordance with waste disposal regulations.
Packages:	Dispose of in accordance with waste disposal regulations.

14 TRANSPORT INFORMATION

Classification for Transport:	Corrosive
UN Number:	1791
UN Proper Shipping Name:	Sodium hypochlorite solution
ADR/RID Class:	8
ADR/RID Item No.:	61o(c)
IMDG Packaging Group:	III
IMDG Class:	8

15 REGULATORY INFORMATION

EEC Classification:	Corrosive: Hazard symbol C
Risk Phrases:	
R34: Causes burns	

R31: Contact with acid liberates toxic gas Safety Phrases:
S2: Keep out of reach of children

S26: In case of contact with eyes, rinse immediately with plenty of water and seek immediate medical advice.
S37/39: Wear suitable gloves and eye/face protection.

S46: If swallowed, wash out mouth, then drink plenty of milk or water, and seek medical attention immediately, showing this label or container.

16 **OTHER INFORMATION**

This data sheet was prepared in accordance with Directive 91/155/EEC
Conforms to CHIP 3 (2002)
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