



OAK INDUSTRIAL SUPPLIES

“THE INDUSTRIAL SUPPLIES PEOPLE”

HEALTH & SAFETY DATA SHEET

1 OF 5

IDENTIFICATION OF SUBSTANCE OR PREPARATION

Name of Product: STANDARD INDUSTRIAL BLEACH AND THICK BLEACH

INFORMATION ON CLASSIFIED INGREDIENTS

Hazardous Ingredients	Case No.	% (W/W)	Symbol	R Phrases R31 -
Sodium Hypochlorite	007681-52-9	10 - 14	C	34

Sodium Hypochlorite liquor, containing less than 5% nominal available chlorine.

Alternative names: Bleach

RISKS ASSOCIATED WITH THIS PRODUCT:

Causes burns to skin, eyes and respiratory system. Contact with acid liberates toxic chlorine gas.

FIRST AID:

- Inhalation** : Remove patient from exposure, keep warm and at rest. Administer oxygen if Necessary. Obtain medical attention.
- Skin Contact** : Take off immediately all contaminated clothing. After contact with skin, wash immediately with plenty of water. If symptoms develop, obtain medical attention.
- Eye Contact** : **Speed is essential.** Immediately irrigate with eyewash solution or clean water, holding the eye lids apart, for at least 10 minutes. Obtain immediate medical attention.
- Ingestion** : Do not induce vomiting. Providing the patient is conscious, wash out mouth with water and give 200-300ml (half a pint) of water to drink. Obtain immediate medical attention.
Attention: Symptomatic treatment and supportive therapy as indicated. Gastric lavage is not recommended.

FIRE FIGHTING MEASURES:

Non-combustible. Oxidising agent; may assist combustion. Thermal decomposition will evolve toxic vapours. (Chlorine). See ‘Hazardous Decomposition Products’.

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FIRE FIGHTING MEASURES – Continued:

Extinguishing media: Normal extinguishing media. Fire fighting protective equipment: a self contained breathing apparatus and suitable protective clothing must be worn in fire conditions.

ACCIDENTAL RELEASE MEASURES:

Small spillages: Wash the spillage area with water.

Large spillages: Contain spillages with sand, earth or suitable absorbent material. Transfer to a container for disposal. Wash the spillage area with water. Spillages or uncontrolled discharges into watercourses, drains or sewers must be **immediately** alerted to the National Rivers Authority or other appropriate regulatory body.

HANDLING AND STORAGE:

Avoid contact with eyes and skin.

Do not breathe mist. Do not mix with acids. Avoid contact with other cleaning agents. Provide adequate ventilation.

Keep away from heat and direct sunlight. Keep away from acids, Ammonia solutions, Amines and Methanol.

For small quantities: Vented containers made from glass or PVC are suitable.

For large quantities: Glass reinforced plastic tanks with a PVC lining, rubber lined mild steel or high density polyethylene tanks are suitable.

Storage tanks should be completely enclosed except for vents and overflows. Provision should be made to wash tanks clear of sludge, which can build up due to salting out or solids during natural decomposition.

EXPOSURE CONTROLS AND PHYSICAL PROTECTION:

Wear suitable protective clothing, gloves and eye/face protection. PVC is recommended. When required to spray Sodium Hypochlorite solutions or to work in mists, adequate respiratory protection should be provided. Where a cartridge/canister respirator is suitable, use: Type P3SL (CEN143). Check with protective equipment manufacturer's data.

Occupational Exposure Limits:

Hazardous Ingredient(s)	LTEL Bhr	TWA	STEL		Time
	ppm	mg/m ³	ppm	mg/m ³	mins
Sodium Hypochlorite	Not listed (UK HSE EH40) In case of chlorine emission, the occupational exposure limit for chlorine should be observed.				
Chlorine	0.5	.5	1	3	- OES

PHYSICAL AND CHEMICAL PROPERTIES:

Form : Liquid
 Colour : Greenish – Yellow
 Odour : Faintly Chlorinous
 pH (Value) : >11
 Boiling Point (Deg C) : 110
 Solubility (Water) : Miscible
 Freezing Point (Deg C): -4
 Specific Gravity : 1.08 Approx.
 Data applies to a solution of 5% (Nominal) available Chlorine.

STABILITY AND REACTIVITY:

Hazardous reaction: Contact with acids liberates toxic Chlorine gas. Reacts with ammonia solutions and amines to form explosive compounds. Can react violently if in contact with Methanol. Decomposition with evolution of Oxygen is accelerated by light and heat and also by contact with many metals; particularly Copper, Nickel, Iron and 'Monel'. Thermal decomposition will evolve toxic vapours. Oxidising Agent, may assist combustion.

Hazardous decomposition product: Chlorine.

TOXICOLOGICAL INFORMATION:

Inhalation: Mist and vapour are corrosive to the respiratory tract and may cause bronchial irritation.

Gas (Chlorine) produced under fire or acidic conditions is toxic by inhalation.

Skin Contact: Causes burns. Repeated or prolonged contact to dilute solutions may cause dermatitis. May cause skin sensitisation in some cases.

Eye Contact: Risk of serious damage to eyes. Extremely severe irritant/corrosive causing severe initial pain. May cause permanent damage if eye is not immediately irrigated.

Ingestion: Low oral toxicity. Will cause corrosion of and damage to the Gastrointestinal tract.

Long Term Exposure: Acute effects predominate.

ECOLOGICAL INFORMATION:**Environmental fate and distribution.**

High tonnage material used in open systems.

The product is soluble in water.

Persistence and degradation.

The product decomposes quickly in soil or water.

Toxicity.

Toxic to aquatic organisms. Very toxic to fish.

Effect of effluent treatment.

The product is substantially removed in biological treatment processes. There is evidence of inhibition to the aerobic treatment process at a concentration (mg/l) of 0.05.

DISPOSAL CONSIDERATIONS:

Disposal should be in accordance with local, state or national legislation.

TRANSPORT INFORMATION:

UN Number : 1791 III
UN Pack.Group :

AIR

ICAO/IATA Class -Primary : 8

UN Packing Group Air : III

SEA

IMDG Class -Primary : 8

UN Packing Group Sea : III

Proper Shipping name : Hypochlorite Solution

Road/Rail ADR/RID : 8

Class ADR/RID Item : 61 (c)

No. ADR SIN : 1791

REGULATORY INFORMATION:

EEC Classification : Irritant

Hazard Symbol Risk : Xi

Phrases : R31 Contact with acids liberates toxic gas. R36/38
Irritating to the eyes and skin.

Safety Phrases : S1/2 Keep locked up and out of reach of children.

S28 after contact with skin, wash with plenty of water.

S45 in case of accident or if you feel unwell, seek medical advice
Immediately. (Show the label where possible).

S50 Do not mix with acids.

OTHER INFORMATION:

This data sheet was prepared in accordance with directive 91/155/EEC.

Use: Waste Water/Sewage Treatment, Cleaning, Disinfecting, Bleaching Information in this publication is believed to be accurate and is given in good faith, but it is for the customer to satisfy itself of the suitability for its own particular purpose. Accordingly, ISG gives no warranty as to the fitness of the product for any particular purpose and any implied warranty or condition

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Freedom under patent, copyright and designs cannot be assumed.

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GLOSSARY

DES	:	Occupational exposure standard (UK HSE EH40) Maximum
MEL	:	Exposure limit (UK HSE EH40)
CaM	:	The Company aims to control exposure in its workplace to this limit. The Company aims to control exposure in its workplace To the ACGIH limit.
TLV-C	:	The Company aims to control exposure in its workplace to the ACGIH ceiling limit. The Company aims to control exposure in its workplace to the German limit.
Sk	:	Can be absorbed through skin.
Sen	:	Capable of causing respiratory sensitisation.

RE-ISSUED: JUNE 2003

R6480