



Material Safety Data Sheet

1. IDENTIFICATION OF THE SUBSTANCE/PREPERATION AND OF THE COMPANY/UNDERTAKING

Product name : Hygenie Hyposan
Product code : HYP
Function : Chlorine based bleaching agent
Supplier : Caprichem (Pty) Ltd P.O.Box 160, Blackheath, 7581

Company Telephone no : (021) 905-4712
Emergency Number : 082-898-9265
Contact person : Robert Jonas
Reg.No : 1998/016011/07

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight %
1. Sodium Hypochlorite 11 – 13%	7681-52-9	

3. HAZARDS IDENTIFICATION

Corrosive liquid.
Poisonous if inhaled or swallowed.
Skin contact poisonous.
Contact could cause burns to skin and eyes.
Fire could produce irritating or poisonous gases.
Reaction with acids will release toxic chlorine gas.
Runoff from fire-control or dilution water could cause pollution.

4. FIRST-AID MEASURES

Eye contact : **Symptoms** : Causes eye irritation and burning.
: **Prevention** : Safety glasses could be worn.
: **First-aid** : In case of contact, immediately flush eyes with water for at least 15 minutes and get medical attention if irritation persists.

Skin contact : **Symptoms** : Burning effect. Causes mild irritation in concentrated form.
: **Prevention** : Rubber or Neoprene gloves and additional impervious protective clothing should be worn.
: **First-aid** : Wash with soap and water.

Inhalation : **Symptoms** : Tightening of chest, shortness of breath.
: **Prevention** : Respiratory protection with appropriate factor.
: **First-aid** : Remove patient to fresh air. Seek medical attention.

Ingestion : **Symptoms** : Nausea and Vomiting.
: **Prevention** : Store away from food stuffs in clearly marked containers.
: **First-aid** : Do not induce vomiting. Drink 2-3 glasses of water or milk. Seek medical attention immediately.

5. FIRE-FIGHTING MEASURES

Solution is non flammable but may assist combustion.
Contain fire and allow to burn.

Move container from fire area if you can do it without risk.
Cool containers that are exposed to flames with water from the side until well after the fire is out.
Stay away from ends of tanks.

Keep unnecessary people away; isolate hazard area and deny entry.
Thermal decomposition product is chlorine gas - stay upwind; keep out of low areas.

Use self-contained breathing apparatus and protective clothing.
Use an extinguishing media appropriate for the material that is burning.
Do not allow run-off from fire fighting to enter sewers or water systems.

6. ACCIDENTAL RELEASE MEASURES

Full protective clothing including breathing apparatus
Dilute (substance may be washed to drain with a lot of water)

PRECAUTIONS:

Restrict access to area.
Provide adequate protective equipment and ventilation.
Always work upwind from the spill.
Remove sources of heat and flame.
Notify occupational and environmental authorities.

SPILL OR LEAK:

Do not touch spilled material.
Stop leak if you can do it without risk.
Use water spray to reduce vapours.

SMALL SPILLS:

Take up with sand or other noncombustible absorbent material
and place into containers for later disposal.

LARGE SPILLS:

Dike liquid spill for later disposal.

7. HANDLING AND STORAGE

Handling : Avoid contact with eyes and skin.

Storage : Keep in cool, dry ventilated place. Keep out of reach of children.
Keep away from acids, ammonia salts, amines, methanol.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls	: Eyewash stations
Respiratory protection	: If adequate ventilation is not available, utilize appropriate respiratory equipment.
Eye and face protection	: Safety glasses
Skin and body	: If major exposure is possible wear suitable protective clothing.
Hands	: Rubber gloves recommended for prolonged or repeated skin contact.
Ventilation	: General room ventilation is normally adequate.

9. PHYSICAL AND CHEMICAL PROPERTIES

Colour	: yellowish solution.which may contain small amounts of precipitate
Chlorine content	: 10 - 12.5 % m/v
Alkalinity	: 1.0 - 2.5 m/v (as NaOH)
SG @ 20 deg C	: 1.20 maximum

Completely soluble in water.

Sodium hypochlorite at high concentrations is unstable and deteriorates with exposures to heat and UV light.

Product should be diluted asap to at least 6 % to improve stability.

Shelf life at 12.5 % is approximately 3 - 5 days

Physical state	: Liquid
Colour	: Clear Yellowish
Odour	: Chlorine Odour
Density	: 1.080
Solubility in water	: Complete
Flash Point	: N/A

10. STABILITY AND REACTIVITY

Conditions to avoid	: High temperatures and light will cause the product to deteriorate. Precipitates (chlorates) will form and the product will turn brown/black. Gas will form which may lead to containers bursting.
Incompatible Materials	: Reacts with acids and releases toxic chlorine gas and oxygen. Powerful oxidizing agent.
Other	: Thermal decomposition product will evolve toxic chlorine and sodium dioxide fumes.

11. TOXICOLOGICAL INFORMATION

Acute toxicity	: Released Chlorine is toxic by inhalation.
Skin and eye contact	: Irritating to skin causing burns.
Chronic toxicity	: Prolonged exposure to skin will result in dermatitis, to eyes - conjunctivitis, inhalation - adversely effect respiratory tract.

12. ECOLOGICAL INFORMATION

Ecotoxicological information : No ecological problems are expected when the product is handled and used with due care.

13. DISPOSAL CONSIDERATION

Disposal Method Product	: There are no uniform EC regulations for the disposal of chemicals or residues. Chemical residues generally count as special waste. The disposal of the latter is regulated in the EC member countries through corresponding laws and regulations. We recommend that you contact the authorities in charge or approved waste disposal companies which will advise you on how to dispose of special waste.
Disposal Method Packaging	: Disposal in accordance with local legal provisions.

14. TRANSPORT INFORMATION

UN No	: 1791	Hazchem Code	: 2r
ERG No	: 154	EAC	: 59
		IMDG-Packaging Group	: III
Marine Pollutant	: True		
Class	: Class: 8 Corrosive Group: III		
Subsidiary Risks	: None		
Tremcard Number	: 45/80G12		

15. REGULATORY INFORMATION

EEC Hazard Classification	: 8
Risk Phases	: R31 - Contact with acids liberates toxic gas R36/38 - Irritating to eyes, and skin R5r - Harmful to aquatic organisms
Safety Phases	: S1/2/13 - Keep out of reach of children, away from food, drink and animal feed stuffs. S7/9 - Keep containers closed in a well ventilated area. S23/24/25 - Do not breath in fumes emitted and avoid contact to eyes. S28 - wash skin immediately with plenty of water. S36/37/38 - Wear suitable chemical protective clothing, gloves and eye/face protection. S45 - In case of not feeling well seek medical attention. S50 - Do not mix with formic acid, phynylactonitrile, amines, ammonium salts, methanol and aziridine.
National Legislation	: None

16. OTHER INFORMATION

The information provided in this Safety Data Sheet is correct to the best of our knowledge at the date of issue and covers applications when used as directed. It provides guidance on health, safety and environmental aspects of the product and should not be construed as any guarantee of technical performance or suitability for particular applications. As the specific conditions of use are outside the suppliers control, the user is responsible for ensuring that the relevant legislation are complied with.