



# COSHH Risk Assessment No: 16/09

## Product Name: Sodium Hypochlorite 14%



Company name: Geopure LLP

Dept. (if applicable):

Describe the activity or work process.  
*(Inc. how long/how often this is carried out and quantity substance used)*

Used as an additive to disinfect cold water storage tanks on an annual basis. The mix ratio is 250ml per 1000 Litres to obtain 50ppm at a neutral PH level.

Location of process being carried out?

Roof space tanks and outside storage tanks

Identify the persons at risk:

Employees

Sub-contractors

Public

Name the substance involved in the process and its manufacturer.  
*(A copy of a current safety data sheet is attached to this assessment)*

Sodium Hypochlorite (bleach)  
William Clements (Chemicals) Ltd  
The Old Transport Museum  
Witham Street  
BELFAST BT4 1HP  
Telephone: +44 (0) 28 9073 8395

### Classification *(state the category of danger)*

	<input checked="" type="checkbox"/> Toxic		<input checked="" type="checkbox"/> Oxidising		<input type="checkbox"/> Gas Under Pressure
	<input checked="" type="checkbox"/> Harmful/ Irritant		<input type="checkbox"/> Flammable		<input type="checkbox"/> Carcinogen
	<input checked="" type="checkbox"/> Corrosive		<input type="checkbox"/> Explosives		<input type="checkbox"/> Dangerous for the environment

### Hazard Type

Gas  
  Vapour  
  Mist  
  Fume  
  Dust  
  Liquid  
  Solid  
  Other (State) .....

### Route of Exposure

Inhalation  
  Skin  
  Eyes  
  Ingestion  
  Other (State) .....

### Workplace Exposure Limits (WELs) *please indicate n/a where not applicable*

Chlorine gas EH40-LTEL =0.5ppm OES-STEL 1ppm

### State the Risks to Health from Identified Hazards









Lung oedema symptoms may usually develop several hours after exposure and is aggravated by physical exertion.  
 Burning of skin by spillage.  
 Irritant or burning of eyes through misting.  
 Inhalation of toxic fumes if liberated by acids.  
 Accidental indestion

### Control Measures:

Sodium Hypochlorite is transported in small volumes so as to minimise the risk of exposure. The containers clearly marked and are sealed during transport. Only trained Geopure personell are to use Sodium Hypochlorite and dose the tanks to the proportionate level as calculated by tank volume. Respirator, Gloves and protective goggles are to be worn when dispensing Sodium Hypochlorite. No other staff, or personell are permitted in the area whilst the dosing is taking place. Once complete containers are sealed and stored safely back in company vehicles. No smoking is permitted at any time.

Is health surveillance or monitoring required? Yes  No

**Personal Protective Equipment (state type and standard)**

 <input type="checkbox"/>		 <input type="checkbox"/>	Suitable for chemical splashes
Dust mask		Visor	
 <input checked="" type="checkbox"/>		 <input checked="" type="checkbox"/>	
Respirator		Goggles	
 <input checked="" type="checkbox"/>		 <input type="checkbox"/>	
Gloves		Overalls	
 <input type="checkbox"/>		 <input type="checkbox"/>	
Footwear		Other	

**First Aid Measures**

**Inhalation:** Remove from exposure, rest and keep warm. If there is difficulty in breathing, give oxygen. Do not use mouth to mouth ventilation. Obtain medical attention urgently.

**Ingestion:** Wash out mouth with water. Have victim drink 240-300ml of water to dilute stomach contents. Obtain medical attention. Do not induce vomiting.

**Skin Contact:** Immediately flood the skin with large quantities of water, preferably under a shower. Remove contaminated clothing as washing proceeds. Contaminated clothing should be washed or dry-cleaned before re-use. Obtain medical attention if blistering occurs or redness persists.

**Eye Contact:** Immediately flood the eye with plenty of water for at least 10 minutes, holding the eye open. Obtain medical attention.

**Medical Assistance:** Lung oedema symptoms may usually develop several hours after exposure and is aggravated by physical exertion. Rest and hospitalisation is essential.

**Storage**

Storage area should be: cool, dry, well ventilated and out of direct sunlight. Storage tanks should be completely enclosed apart from vent and overflow connections. Store in externally reinforced pvc, or small pvc containers, high density polyethylene or carbon steel lined with a suitable grade of rubber. Suitable storage materials are: plastic lined steel. Do not store in metal drums. Should be stored at a minimum temperature of 3°C and a maximum temperature of 40°C.

**Disposal of Substances & Contaminated Containers**

**Hazardous Waste**  Skip  Return to Depot  Return to Supplier  Other

(If Other Please State): .....

Is exposure adequately controlled? Yes  No

**Risk Rating Following Control Measures**

High  Medium  Low

Assessed by: David Myers Date: 08 September 2019 Review Date: 08 September 2020