MATERIAL SAFETY DATA SHEET

1. CHEMICAL PRODUCT IDENTIFICATION

Chemical Name: Sodium Hypochlorite Solution

UN.No.1791

Synonym : Bleach Hypochlorous acid, Sodium Salt, Soda bleach &

Sodium Oxychloride.

Chemical Formula : Naocl Molecular weight : 74.44 Product codes : 9416, P005

2. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Colourless to yellowish liquid

Odor : Chlorine like odor Solubility : 100% in water Density : 1.07 – 1.14

Boiler point : 40C(104F) Decomposer slightly

Meeting point : -6C (21F)

3. STABILITY AND REACTIVITY

Stability : Slowly decomposes on contact with air. Rate increases

with the concentration and temperature. Exposure to sunlight acceleration decomposition. Sodium Hypochlorite

becomes less toxic with age.

Hazardous Decomposition Product:

Emits toxic fumes of Chlorine when heated to

decomposition. Sodium oxide at high temperatures.

Hazardous Polymerization: Will not occur.

Continuous to avoid : Light, heat and incompatibles.

4. HAZARDS IDENTIFICATION

Potential Health effects:

Inhalation : May cause irritation to the respiratory that (Nose

and throat; symptoms may include coughing and

sore throat)

Ingestion : May cause nausea and vomiting.

Skin contact : May irritate skin.

Eye contact : Contact may cause severe irritation and damage especially

at higher concentration.

Chronic Exposure : A constant irritant to the eyes and throat. Low potential

for sensitization after exaggerated exposure to damage skin.

Aggravation of pre-existing conditions:

Persons with impaired respiratory function, or heart disorders (or disease) may be more susceptible to the

effects of substance.

5. FIST AID MEASURES (Safety Precaution):

Inhalation : Remove to fresh air. If not breathing, give artificial

respiration. If breathing is difficult, give Oxygen, get

medical attention immediately.

Ingestion : If swallowed, DO NOT INDUCE VOMITING. Give large

quantities of water. Never give anything by mouth to an

unconscious person. Get medical attention immediately.

Skin contact : Immediately flush skin with plenty of water for atleast 15

minutes while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before

re-use. Thoroughly clean shoes before re-use.

Eye contact : Immediately flush eyes with plenty of water for atleast 15

minutes, lifting lower and upper eyelids occasionally. Get

medical attention immediately.

6. FIRE FIGHTING MEASURES:

Fire : Not considered to be a fire hazard, substance releases

oxygen when heated, which may increase the severity of an existing fire containers may rupture from pressure build-up.

Explosion : This solution is not considered to be an explosion hazard.

Anhydrous sodium hypochlorite is very explosive.

Fire Extinguishing media: Use any means suitable for extinguishing surrounding fire.

Use water spray to cool fire-exposed containers to dilute

liquid and control vapour.

Special information : In the event of a fire, wear full protective clothing and

NIOSH – approved self – contained breathing apparatus with full face shield operated in the pressure demand or

other positive pressure mode.