Material Safety Data Sheet

Section 1 Product identification and use

Product name KLOR BLEACH

Product use   GERMICIDE,DISINFECTANT AND SANITIZER.

Supplier/manufacturer´s name
SANIPRO

Address   BLGD.27,ST.ELLIAS STREET#82

MKALLES

LEBANON

Phone number

Emergency telephone number (00961)638222

Section 2 WHMIS classification

C
D2B

Transport Regulation

class 5.1 **UN** 1479 **group** II

Section 3 Hazardous ingredients

Ingredients	CAS number	LD 50	LC 50	%
Sodium Hypochlorite	2893-78-9		N.A.	12
Sodium carbonate	497-19-8			2g/Liter

Section 4 Physical data

Physical state Liquid	**Odour** Chlorine	**Appearance** Green yellow liquid	**Colour** Green yellow
Solubility (water) Soluble	**Vapour density (air=1)** N.Ap.	**Boiling point (°C)** N.Ap.	**Freezing point (°C)** N.Ap.
pH (20°C) 9.0-10.0 (1% solution)	**Specific gravity/density(20°C)** 1.225Kg/Liter	**Viscosity (20°C)** N.Ap.	**Melting point (°C)** N.A.

Section 5 Fire and explosion data

Lower flammable limit (%/volume) N.Ap.	**Upper flammable limit (%/volume)** N.Ap.	**Autoignition temperature (°C)** N.Ap.	**Flashpoint (°C)** N.Ap.

Flammability
Non-flammable.

Extinguishing media
Water, CO2, dry powder, foam.

Hazardous combustion products
Toxic gases will evolve.

Special fire fighting procedures
In case of fire, use recommended safety equipment including a self contained breathing apparatus.

Special precautions
None.

Section 6 Reactivity data

Stability
Stable at ambient temperature.

Hazardous polymerization
Will not occur.

Incompatibility
Water (moisture), easily oxidizable matter, ammonia, urea, calcium hypochlorite, alkalis, carbon disulfide, dimethyl hydrazines, fertilisers, fungicides, glycerine, hydrogen peroxide,paint, paint solvents, peracetic acid, persulfate, petroleum solvents, sodium perborate, strong acids.

Reactivity
Very reactive with strong acids, ammonia and oxidizing materials.

Hazardous decomposition products
Decomposes at 460-480°F with the liberation of harmful chlorine and phosgene gases.

Section 7 Toxicological properties

Eye contact
May cause severe irritation or burns.

Skin contact
Irritant when in contact with moist skin.

Inhalation
Causes irritation of upper respiratory tract.

Ingestion
May be harmful or fatal if swallowed.

Effects of chronic exposure
As above.

LD50 for product (calculated)

LC50 for product (calculated)
N.A.

Other toxic effects
None known.

Section 8 Preventive measures

Protective equipment
HANDS: Wear impervious gloves.

EYES: Wear safety glasses with side shields.

RESPIRATORY APPARATUS: Not required if area is well ventilated.

OTHERS: Have an eye wash fountain near work area.

Engineering controls
Adequate ventilation with local exhaust in area of handling.

Leak and spill procedures
Sweep and vacuum and place in clean, dry container. Complete clean-up on a dry basis.

Waste disposal
Dispose in accordance with environmental regulations.

Storage requirements
Keep containers closed in a cool dry place away from incompatible materials.

Section 9 First aid measures

Eye   Flush affected eye with water for at least 15 minutes holding eyelid open. Obtain medical attention IMMEDIATELY.

Skin   Flush with water.

Inhalation   Remove to fresh air.

Ingestion   Do not induce vomiting. If conscious, have victim drink preferably plenty of milk or water. Obtain medical attention IMMEDIATELY. Never give anything by mouth to an unconscious person.

General recommendations
Avoid contact with eyes, skin and clothing. Avoid inhaling dust.   Do not mix with toilet bowl cleaner, rust remover, household ammonia or acids.

Section 10 Informations on MSDS preparation

Preparation or last revision of this document by the Technical Department: 08/01/2000

Abreviations used :   N.A. = Not available   N.Ap.= Not applicable