

# MATERIAL SAFETY DATA SHEET



Chemifloc Ltd

## CALCIUM NITRATE SOLUTION

SECTION 1 IDENTIFICATION	
Trade Marks and Synonyms (if any) <b>Chemiox, Chemiox 50.</b>	Chemical Names and Synonyms <b>Calcium Nitrate Solution</b>
Physical Form <b>Pale Yellow to Brownish Liquid</b>	Molecular Formula <b>Ca(NO<sub>3</sub>)<sub>2</sub>.xH<sub>2</sub>O</b>
Responsible Person : <b>Chemifloc Ltd, Smithstown Ind. Estate, Shannon, Co. Clare. +353 61-708699</b>	Emergency Telephone : <b>Chemifloc Ltd, +353 61-708699</b>

SECTION 2 INFORMATION ON INGREDIENTS			
Ingredients	Concentration	Classification	CAS No.
<b>Calcium Nitrate</b>	<b>42.0 – 22.0%</b>	<b>NR</b>	<b>13477-34-4</b>
<b>H<sub>2</sub>O</b>	<b>46.0 - 67.0%</b>	<b>NR</b>	<b>7732-18-5</b>

SECTION 3 HAZARDS IDENTIFICATION	
<b>Risk of damage to eyes. Irritant</b>	

SECTION 4 PHYSICAL AND CHEMICAL PROPERTIES			
Appearance and Odour :		<b>Pale Yellow to Brown liquid with slightly pungent nitrous odour.</b>	
pH	<b>6.0 – 8.0</b>	Conc:	
Boiling Point (deg. C) <b>&gt;100</b>	Freezing Point (deg. C) <b>- 35</b>	Flash Point (deg. C) <b>None</b>	Specific Gravity <b>1.45-1.500 @ 15°C</b>
Autoignition (deg. C) <b>None</b>	Flammable Limit (% by Vol. in Air) <b>N/A</b>	Vapour Pressure (mm Hg) <b>N/A</b>	
Solubility in Water <b>Miscible</b>	Solubility in Other Solvents <b>Not Specified</b>	Oxidising Properties <b>N/A</b>	

## SECTION 5 STABILITY AND REACTIVITY

Stability	Unstable		Conditions to Avoid
	Stable	X	
Incompatibility (Materials and Conditions to Avoid) <b>Reacts vigorously with reducing agents eg. Hypochlorites. Attacks most metals liberating the flammable gas hydrogen and oxides of nitrogen.</b>			
Hazardous Decomposition Products <b>When heated in contact with strong reducing agents, oxides of nitrogen may be evolved.</b>			

## SECTION 6 TOXICITY DATA

Short term effects of over exposure when :

In contact with skin :	<b>Irritant after prolonged contact with skin. Produces sores and possible dermatitis.</b>
In contact with eyes :	<b>Irritates immediately and could cause severe damage which could lead to permanent visual defects or even total loss of vision.</b>
Inhaled :	<b>The vapour and mists may be irritant to the respiratory system.</b>
Ingested :	<b>Very astringent taste to mouth nose and throat normally followed by rapid expectoration.</b>
Long Term Exposure :	<b>Long term exposure to concentrated vapours may cause erosion to teeth and lung damage.</b>
Toxicity Data:	<b>Oral rat LD50: 3250 mg/kg (9-hydrate).</b>

## SECTION 7 FIRST AID MEASURES

Skin Contact :	<b>Remove contaminated clothing and wash affected area with copious quantities of water.</b>
Eye Contact :	<b>Immediately irrigate with water for at least 10 minutes. Seek medical attention.</b>
Inhalation :	<b>Remove patient to fresh air, Keep warm and at rest.</b>
Ingestion :	<b>Do not induce vomiting. Provided patient is conscious wash out mouth with water and give 5% sodium bicarbonate solution followed by a demulcent such as milk.</b>
Further Medical Advice : <b>If in doubt seek medical attention.</b>	



