

GUJARAT ALKALIES AND CHEMICALS LIMITED

P.O.:DAHEJ, TA-VAGARA, DIST-BHARUCH SAFETY BULLETIN

Deptt. Safety & Environment

Issue No. 13

January 2011

	MATERIA	L SAFETY DATA SHEET
CHEMICAL IDEN	ГІТҮ	
Chemical Name:	Sodium Ch	lorate Chemical Classification - Inorganic Compound
Synonyms :	Soda chlorate; Chlo	prax; Choloric acid; sodium salt Trade Name :
Formula:	NaClO ₃	C.A.S. No. : 7775 - 09 - 9 U.N. No.: 1495
Regulated Identi	fication	: Shipping Name: Sodium Chlorate Hazchem Code :1 S
		: Codes/Label : Oxidiser. Class 5
		: Hazardous Waste I.D. No. : 8
Hazardous Ingre	dients	: C.A.S. No. Hazardous Ingredients : C.A.S. No.
1 Sodium (hlorate	: 7775 - 09 - 9
2		4
PHYSICAL AND O	HEMICALS DATA	
Boiling Range / Po	int ⁰ C: No Information	on Physical State: Solid Appearance: White Crystals
Melting / Freezing	Point ^o C: 248	Vapour Pressure @ 35 °C : NA Odour: Odorless
Vapour/Density (A	ir=1): Not available	Solubility in water at 30°C Others: Soluble in alcohol &
	<u> 1820-cu u u est</u>	Soluble Glycerol
Specific Gravity(W	ater=1): 2.49 at -80°C	Density: 2.5 pH - Aquous Solution is Neutral
FIRE/EXPLOSION	HAZARD DATA:	
Flammability:	No LI	EL%: NA Flash Point ^o C (OC): N.A.
TDG flammability:	5.1 UI	EL%: NA Flash Point ${}^{\circ}C$ (CC): N.A.
Autoignition Temp	erature ⁰ C	: NA
Explosion Sensitivi	ty to impact	: Explodes
Explosion Sensitivi	ty to static electricity	: Explodes
Hazardous Combus	tion products	: Emits toxic fumes of Cl ₂ and Na ₂ O
Hazardous Polyme	erisation	: Will not occur.
Combustible Liqui	: Yes	Explosive Material : No Corrosive Material : No
Flammable materi	al : No	Oxidizer : Strong Oxidiser Others
Pyrophoric materi	al : No	Organic Peroxide : No
REACTIVITY DAT	Ā	
Chemical Stability		: Stable under ordinary conditions of use and storage
Incompatibility wi	th other material	: Aluminium, strong reducing agents, organic matter and other oxidizer
		substances.
Reactivity	: May react e	explosively with agricultural materials (e.g. Peat, Powdered Sulphur, Saw Dust,
	Urotropine,	Thiuram) Alkynes + Potassium Osmate, Aluminium + Rubber, Ammonium salts,
**	Grease, Lea	
	500 S S S S S S S S S S S S S S S S S S	

	ARD DATA					
Routes of entr	y : Inhalation, Ir	gestion, Skin & Eyes.				
Effect of	: Inhalation & i	ngestion: Ingestion of a toxic do	se (at least 1/2 oz) leads	to severe		
Exposure/symp		gastroenteric pain, vommiting and diarrhea. Possible respiratory				
		difficulties including the failure of respiration.				
	Skin & Eyes: 0	ause severe irritation				
Emergency Tre	eatment : Inhalation: Re	: Inhalation: Remove the victim to fresh air. If not breathing, give artificial respiration.				
		oreathing is difficult, give oxyge				
	Ingestion: Indu	ce vomitting immediately as dire	ected by medical attentio	n.		
	Skin contact: I	mmediately flush sking with pler	nty of soap and water for	at least 15 minutes.		
		Remove contaminated clothing	and shoes, Get medical a	ittention.		
	V	ash clothing before reuse. Thro	ughly clean safety shoes b	pefore reuse.		
	Eye contact: In	nmediately flush eyes with plent	cy of water for at least 15	minutes, lifting lower		
		and upper eyelids occasionally.	Get medical attention im-	mediately.		
TLV (ACGIH)	: 10 mg/m ³	TL	.V: 15 mg/m ³			
Permissible Ex	cposure Limit : Not Listed					
LD50 (Oral - R						
NFPA Hazard S	Signal : Health	Flammability	Reactivity	Special		
	1	0	1	Oxidizer		
PREVENTIVE	MEASURES					
Personal Prote	ective : Wear impervio	us protective clothing, PVC appr	ron as appropriate ato pre	vent skin contact. Avo		
		r hand gloves, dust mask, Goggle				
	· Do not use oils	, grease or protective creams or	at the			
Handling & Sto precaustions	crage : Keep in a tight damage and mo	lly closed container, stored inh a isture. Isolate from any source o	a cool, dry, ventilated are f heat or ignition. Avoid s	torage on wood floors.		
-	crage : Keep in a tight damage and mo Separate from in Containers of th	ly closed container, stored inh a	a cool, dry, ventilated are f heat or ignition. Avoid s ganic or other readily oxionen wmpty since they reta	torage on wood floors. dizable materials.		
precaustions	crage : Keep in a tight damage and mo Separate from in Containers of th (dust, solids); of	ly closed container, stored inh a isture. Isolate from any source o ncompatibles, combustibales, or is material may be hazardous wh	a cool, dry, ventilated are f heat or ignition. Avoid s ganic or other readily oxionen wmpty since they reta	torage on wood floors. dizable materials.		
precaustions	crage : Keep in a tight damage and mo Separate from in Containers of th (dust, solids); of	ly closed container, stored inh a isture. Isolate from any source o ncompatibles, combustibales, or is material may be hazardous wi bserve all warning and precaution	a cool, dry, ventilated are f heat or ignition. Avoid s ganic or other readily oxid hen wmpty since they reta ons listed for the product.	torage on wood floors. dizable materials.		
precaustions EMERGENCY/	crage : Keep in a tight damage and mo Separate from in Containers of th (dust, solids); of	lly closed container, stored inh a isture. Isolate from any source on compatibles, combustibales, or is material may be hazardous whoserve all warning and precaution : Use any means suitble for the source of the	a cool, dry, ventilated are f heat or ignition. Avoid s ganic or other readily oxiden wmpty since they retains listed for the product.	torage on wood floors. dizable materials. ain protect resudues		
precaustions EMERGENCY/	crage : Keep in a tight damage and mo Separate from in Containers of th (dust, solids); of /FIRST AID MEASURES : Fire Extinguishing Media	lly closed container, stored inh a isture. Isolate from any source on compatibles, combustibales, or is material may be hazardous whoserve all warning and precaution : Use any means suitble for the source of the	a cool, dry, ventilated are f heat or ignition. Avoid s ganic or other readily oximen wmpty since they retains listed for the product. Tire extinguisher. Ol by spraying water if exp	torage on wood floors. dizable materials. ain protect resudues		
precaustions EMERGENCY/	crage : Keep in a tight damage and mo Separate from it Containers of th (dust, solids); of /FIRST AID MEASURES : Fire Extinguishing Media : Special Procedure	lly closed container, stored inh a sisture. Isolate from any source of accompatibles, combustibales, or is material may be hazardous whoserve all warning and precaution and containers containers containers containers containers.	a cool, dry, ventilated are f heat or ignition. Avoid s ganic or other readily oxiden wmpty since they retains listed for the product. Tire extinguisher. Sol by spraying water if experiments of the product of the product.	torage on wood floors. dizable materials. ain protect resudues oosed to heat or flame.		
precaustions EMERGENCY/ FIRE	crage : Keep in a tight damage and mo Separate from in Containers of th (dust, solids); of /FIRST AID MEASURES : Fire Extinguishing Media : Special Procedure : Unusual Hazards	lly closed container, stored inhat isture. Isolate from any source of isture. Isolate from any source of is material may be hazardous whoserve all warning and precaution : Use any means suitble for the containers containers may exploded inhalation: Remove the viction.	a cool, dry, ventilated are f heat or ignition. Avoid s ganic or other readily oxiden wmpty since they retains listed for the product. Tire extinguisher. Sol by spraying water if experiments of the product of the product.	torage on wood floors. dizable materials. ain protect resudues oosed to heat or flame. a and provide artifical		
precaustions EMERGENCY/ FIRE	crage : Keep in a tight damage and mo Separate from in Containers of th (dust, solids); of /FIRST AID MEASURES : Fire Extinguishing Media : Special Procedure : Unusual Hazards	lly closed container, stored inhat isture. Isolate from any source of isture. Isolate from any source of is material may be hazardous whoserve all warning and precaution : Use any means suitble for the containers containers may exploded inhalation: Remove the viction.	f cool, dry, ventilated are f heat or ignition. Avoid s ganic or other readily oximen wmpty since they retains listed for the product. Fire extinguisher. For by spraying water if experiments in the content of the product. The extinguisher is a spraying water if experiments are not once to fresh air are typen if necessary. Seek may a spray in the content of the	torage on wood floors. dizable materials. ain protect resudues posed to heat or flame. a and provide artifical edical aid.		
precaustions EMERGENCY/ FIRE	crage : Keep in a tight damage and mo Separate from in Containers of th (dust, solids); of /FIRST AID MEASURES : Fire Extinguishing Media : Special Procedure : Unusual Hazards	Ily closed container, stored inhalisture. Isolate from any source of accompatibles, combustibales, or is material may be hazardous whoserve all warning and precaution. I Use any means suitble for the containers containers may exploded inhalistion: Remove the viction respiration or oxy	a cool, dry, ventilated are f heat or ignition. Avoid s ganic or other readily oxiden wmpty since they retains listed for the product. Tire extinguisher. To by spraying water if experiments in the product of the product of the product. The extinguisher of the product of th	torage on wood floors. dizable materials. ain protect resudues posed to heat or flame. a and provide artifical edical aid.		
precaustions EMERGENCY/ FIRE	crage : Keep in a tight damage and mo Separate from in Containers of th (dust, solids); of /FIRST AID MEASURES : Fire Extinguishing Media : Special Procedure : Unusual Hazards	lly closed container, stored inh a sisture. Isolate from any source of isolate from any source of isometrial may be hazardous whoserve all warning and precaution: a: Use any means suitble for the containers containers may exploded inhalation: Remove the viction respiration or oxylingestion: Induce vomitting as	icool, dry, ventilated are f heat or ignition. Avoid s ganic or other readily oxiden wmpty since they retains listed for the product. Tire extinguisher. To by spraying water if experiments in fire. The and once to fresh air are regen if necessary. Seek mand follow with gastric lavoxygen.	torage on wood floors. dizable materials. ain protect resudues posed to heat or flame. a and provide artifical edical aid.		
precaustions EMERGENCY/ FIRE	crage : Keep in a tight damage and mo Separate from in Containers of th (dust, solids); of /FIRST AID MEASURES : Fire Extinguishing Media : Special Procedure : Unusual Hazards	Ily closed container, stored inhalisture. Isolate from any source of a compatibles, combustibales, or is material may be hazardous whoserve all warning and precautions. I Use any means suitble for the containers containers may exploded inhalistion: Remove the viction respiration or oxy ingestion: Induce vomitting a fluid therapy and instance is stored.	icool, dry, ventilated are f heat or ignition. Avoid s ganic or other readily oxiden wmpty since they retains listed for the product. Tire extinguisher. To by spraying water if experiments in fire. The and once to fresh air are regen if necessary. Seek mand follow with gastric lavoxygen.	torage on wood floors. dizable materials. ain protect resudues cosed to heat or flame. a and provide artifical edical aid. cage, saline cathartics, cap and water for at		
precaustions EMERGENCY/ FIRE	crage : Keep in a tight damage and mo Separate from in Containers of th (dust, solids); of /FIRST AID MEASURES : Fire Extinguishing Media : Special Procedure : Unusual Hazards	lly closed container, stored inhalisture. Isolate from any source of isture. Isolate from any source of isomaterial may be hazardous whoserve all warning and precautions: a: Use any means suitble for the containers containers may exploded inhalation: Remove the viction respiration or oxy ingestion: Induce vomitting a fluid therapy and its Skin Contact: Immediately fluest 15 minutes.	icool, dry, ventilated are f heat or ignition. Avoid s ganic or other readily oxiden wmpty since they retains listed for the product. Tire extinguisher. To by spraying water if expering fire. In at once to fresh air are and follow with gastric law oxygen. Tush eyes with plenty of sees. The cool of the product.	torage on wood floors. dizable materials. ain protect resudues posed to heat or flame. a and provide artifical edical aid. Tage, saline cathartics, pap and water for at clothing and shoes. German edical aid shoes. German edical aid shoes. German edical aid shoes. German edical aid shoes. German edical edical aid shoes. German edical edical aid shoes. German edical		
precaustions EMERGENCY/ FIRE	crage : Keep in a tight damage and mo Separate from in Containers of th (dust, solids); of /FIRST AID MEASURES : Fire Extinguishing Media : Special Procedure : Unusual Hazards	lly closed container, stored inhatisture. Isolate from any source of accompatibles, combustibales, or is material may be hazardous whoserve all warning and precautions. a: Use any means suitble for the containers containers may exploded inhalation: Remove the viction respiration or oxy. Ingestion: Induce vomitting a fluid therapy and Skin Contact: Immediately fluid therapy fluid therapy fluid therapy fluid therapy fluid therapy fluid attent medical attent.	in cool, dry, ventilated are of heat or ignition. Avoid so ganic or other readily oxiden wmpty since they retains listed for the product. The extinguisher. The extinguisher. The in fire. The at once to fresh air are over any oxygen if necessary. Seek mand follow with gastric law oxygen. The eyes with plenty of so eas. Remove contaminated ion. Wash clothing before	torage on wood floors. dizable materials. ain protect resudues posed to heat or flame a and provide artifical edical aid. Tage, saline cathartics, pap and water for at clothing and shoes. Ge		
precaustions EMERGENCY/ FIRE	crage : Keep in a tight damage and mo Separate from in Containers of th (dust, solids); of /FIRST AID MEASURES : Fire Extinguishing Media : Special Procedure : Unusual Hazards	isture. Isolate from any source of incompatibles, combustibales, or is material may be hazardous whoserve all warning and precautions. I Use any means suitble for the containers containers may exploded inhalation: Remove the viction respiration or oxy ingestion: Induce vomitting a fluid therapy and in Skin Contact: Immediately flue in the containers i	f cool, dry, ventilated are f heat or ignition. Avoid s ganic or other readily oximen wmpty since they retains listed for the product. The extinguisher. The extinguisher. The in fire. The and once to fresh air are regen if necessary. Seek mand follow with gastric law oxygen. The eyes with plenty of some sees. Remove contaminated ion. Wash clothing before ease.	torage on wood floors. dizable materials. ain protect resudues cosed to heat or flame a and provide artifical edical aid. Tage, saline cathartics, pap and water for at clothing and shoes. Ge reuse. Throughly clear		
precaustions EMERGENCY/ FIRE	crage : Keep in a tight damage and mo Separate from in Containers of th (dust, solids); of /FIRST AID MEASURES : Fire Extinguishing Media : Special Procedure : Unusual Hazards	lly closed container, stored inhalisture. Isolate from any source of a compatibles, combustibales, or is material may be hazardous whoserve all warning and precautions: a : Use any means suitble for the containers containers may exploded inhalation: Remove the viction respiration or oxy. Ingestion: Induce vomitting a fluid therapy and Skin Contact: Immediately fluid therapy and seed to be a suitable for the contact of th	icool, dry, ventilated are f heat or ignition. Avoid s ganic or other readily oxiden wmpty since they retains listed for the product. Tire extinguisher. To by spraying water if experiments in fire. In at once to fresh air are regen if necessary. Seek mand follow with gastric law oxygen. The system with plenty of some sees. Remove contaminated in the content of	torage on wood floors. dizable materials. ain protect resudues oosed to heat or flame. a and provide artifical edical aid. age, saline cathartics, oap and water for at clothing and shoes. Gereuse. Throughly clear terrfor at least 15		
precaustions EMERGENCY/ FIRE	crage : Keep in a tight damage and mo Separate from in Containers of th (dust, solids); of /FIRST AID MEASURES : Fire Extinguishing Media : Special Procedure : Unusual Hazards	Ily closed container, stored inhalisture. Isolate from any source of a compatibles, combustibales, or is material may be hazardous whoserve all warning and precautions. I Use any means suitble for the containers containers may exploded inhalation: Remove the viction respiration or oxy. Ingestion: Induce vomitting a fluid therapy and Skin Contact: Immediately flue ast 15 minutes medical attent shoes before received.	in cool, dry, ventilated are of heat or ignition. Avoid so ganic or other readily oxiden wmpty since they retains listed for the product. The extinguisher. The extinguisher. The extinguisher. The in fire. The at once to fresh air are over any oxygen. The eyes with plenty of so eas. Remove contaminated in the eyes with plenty of so eas. Remove contaminated in the eyes with plenty of so eas. Remove contaminated in the eyes with plenty of war ower and upeer eyelids on ower and upeer eyelids on the eyes with plenty of war ower and upeer eyelids on the eyes with plenty of war ower and upeer eyelids on the eyes with plenty of war ower and upeer eyelids on the eyes with plenty of war ower and upeer eyelids on the eyes with plenty of war ower and upeer eyelids on the eyes with plenty of war ower and upeer eyelids on the eyes with plenty of war ower and upeer eyelids on the eyes with plenty of war ower and upeer eyelids on the eyes with plenty of war ower and upeer eyelids on the eyes with plenty of war ower and upeer eyelids on the eyes with plenty of war ower and upeer eyelids on the eyes with plenty of war ower and upeer eyelids on the eyes with plenty of war ower and upeer eyelids on the eyes with plenty of war ower and upeer eyelids on the eyes with plenty of war ower and upeer eyelids on the eyes with plenty of war ower and upeer eyelids on the eyes with plenty of war ower and upeer eyelids on the eyes with plenty of eyes with plenty of eyes.	torage on wood floors. dizable materials. ain protect resudues oosed to heat or flame. a and provide artifical edical aid. age, saline cathartics, oap and water for at clothing and shoes. Ge reuse. Throughly clear ter for at least 15		
precaustions EMERGENCY/ FIRE	rage : Keep in a tight damage and mo Separate from in Containers of the (dust, solids); of CFIRST AID MEASURES : Fire Extinguishing Media: Special Procedure: Unusual Hazards: First Aid Measure	Ily closed container, stored inhalisture. Isolate from any source of incompatibles, combustibales, or is material may be hazardous whoserve all warning and precautions. I Use any means suitble for the containers containers may exploded inhalation: Remove the viction respiration or oxy. Ingestion: Induce vomitting a fluid therapy and Skin Contact: Immediately fluid therapy and see the containers in the shoes before referenced the contact: Immediately fluid minutes, lifting	icool, dry, ventilated are f heat or ignition. Avoid s ganic or other readily oxiden wmpty since they retains listed for the product. Tire extinguisher. To by spraying water if experiments in fire. In at once to fresh air are regen if necessary. Seek mand follow with gastric law oxygen. The system with plenty of some sees. Remove contaminated in the content of	torage on wood floors. dizable materials. ain protect resudues oosed to heat or flame. a and provide artifical edical aid. age, saline cathartics, oap and water for at clothing and shoes. Ge reuse. Throughly clear ter for at least 15		
precaustions EMERGENCY/ FIRE	rage : Keep in a tight damage and mo Separate from in Containers of th (dust, solids); of FIRST AID MEASURES : Fire Extinguishing Media : Special Procedure : Unusual Hazards : First Aid Measure : Antidotes/Dosages	Ily closed container, stored inhalisture. Isolate from any source of incompatibles, combustibales, or is material may be hazardous whoserve all warning and precautions. I Use any means suitble for the containers containers may exploded inhalation: Remove the viction respiration or oxy. Ingestion: Induce vomitting a fluid therapy and Skin Contact: Immediately fluid therapy and should be seen the containers the contact of	icool, dry, ventilated are f heat or ignition. Avoid s ganic or other readily oxiden wmpty since they retains listed for the product. The extinguisher. The extinguisher. The extinguisher water if experiments if it is a series of the product. The extinguisher water if experiments in a series with gastric law oxygen if necessary. Seek mand follow with gastric law oxygen. The extinguisher water if experiments if necessary. Seek mand follow with gastric law oxygen. The extinguisher water if experiments if necessary. Seek mand follow with gastric law oxygen. The extinguisher water if experiments if necessary. Seek mand follow with gastric law oxygen. The extinguisher water if experiments if necessary. Seek mand follow with gastric law oxygen. The extinguisher water if experiments if necessary water if experiments if necessary water if experiments if necessary. Seek mand follow with gastric law oxygen. The extinguisher water if experiments if necessary water if experiments	torage on wood floors. dizable materials. ain protect resudues oosed to heat or flame. a and provide artifical edical aid. age, saline cathartics, oap and water for at clothing and shoes. Gereuse. Throughly clear terrfor at least 15 ccasionally.		
EMERGENCY/ FIRE EXPOSURE	rage : Keep in a tight damage and mo Separate from in Containers of the (dust, solids); of CFIRST AID MEASURES : Fire Extinguishing Media: Special Procedure: Unusual Hazards: First Aid Measure	Ily closed container, stored inhalisture. Isolate from any source of a compatibles, combustibales, or is material may be hazardous whoserve all warning and precautions. I Use any means suitble for the containers containers may exploded inhalation: Remove the viction respiration or oxy ingestion: Induce vomitting a fluid therapy and in Skin Contact: Immediately fluid the medical attents shoes before received the spill of the spill	icool, dry, ventilated are f heat or ignition. Avoid s ganic or other readily oxiden wmpty since they retains listed for the product. The extinguisher. The extinguisher. The extinguisher water if experiments if it is a series of the product. The extinguisher water if experiments in a series with gastric law oxygen if necessary. Seek mand follow with gastric law oxygen. The extinguisher water if experiments if necessary. Seek mand follow with gastric law oxygen. The extinguisher water if experiments if necessary. Seek mand follow with gastric law oxygen. The extinguisher water if experiments if necessary. Seek mand follow with gastric law oxygen. The extinguisher water if experiments if necessary. Seek mand follow with gastric law oxygen. The extinguisher water if experiments if necessary water if experiments if necessary water if experiments if necessary. Seek mand follow with gastric law oxygen. The extinguisher water if experiments if necessary water if experiments	torage on wood floors. dizable materials. ain protect resudues oosed to heat or flame. a and provide artifical edical aid. age, saline cathartics, oap and water for at clothing and shoes. Gereuse. Throughly clear terrfor at least 15 ccasionally.		
EMERGENCY/ FIRE EXPOSURE	rage : Keep in a tight damage and mo Separate from in Containers of th (dust, solids); of FIRST AID MEASURES : Fire Extinguishing Media : Special Procedure : Unusual Hazards : First Aid Measure : Antidotes/Dosages	Ily closed container, stored inhalisture. Isolate from any source of incompatibles, combustibales, or is material may be hazardous whoserve all warning and precautions. I Use any means suitble for the containers containers may exploded inhalation: Remove the viction respiration or oxy. Ingestion: Induce vomitting a fluid therapy and Skin Contact: Immediately fluid therapy and should be seen the containers the contact of	f cool, dry, ventilated are f heat or ignition. Avoid s ganic or other readily oximen wmpty since they retains listed for the product. The extinguisher. The exting	torage on wood floors. dizable materials. ain protect resudues posed to heat or flame a and provide artifical edical aid. Frage, saline cathartics, pap and water for at clothing and shoes. Ge reuse. Throughly clear terrfor at least 15 ccasionally.		

8 ADDITIONAL INFORMATION / REFERENCES

LCLO = 800 mg/kg (Oral - Rbt). A powerful oxidiser. It can explode on contact with flame or spark (static discharge) & has caused many Industrial explosion. May react explosively with powered metals, non-metals, sulphides, Cyanides, Cyanoborane Oligomer, Nitrobenzene, Organic matter, Paint + ploythylene, Phosphorous, Sodium Phosphonate. Violent reaction or ignition with alluminium, Ammonium Sulphatee, SB2S3, Aesenic, 1,3-Bis + heat, carbon, charcol. Reacts violently with Nitrobenzene, paper, meal sulphides, dibasic organic acids, organic matter.

9 MANUFACTURERS/SUPPLIERS DATA

NAME OF FIRM

: GUJARAT ALKALIES AND

Contact person in: In chanrge NaClO₃ Control Room

CHEMICALS LIMITED

Emergency

MAILING ADDRESS

: PO: DAHEJ-392 140

Local Bodies involved

: GPCB & DISH

TELEPHONE/FAX NOS.

: (02641) 256 031 (CCR)

Standard Packing

(02641) 256315-18/256325/35

: Cylinders

TELEGRAPHIC ADDRESS

Trem Card details/Ref

E-MAIL ADDRESS

general@gacl.co.in

10 DISCLAIMER

Information contained in this material data sheet is believed to be reliable but no representation, guarantee or warranties of any kind are made as to its accuracy, suitability for a particular application or results to be obtained from them. It is up to the manufacturer/seller to ensure that the information contained in the material safety data sheet is relevant to the product manufactured / handled or sold by him as the case may be. The I.C.M.A. makes no warranties expressed or implied in respect of the adequacy of this document for any particular purpose.

For Internal Circulation only