TATA CHEMICALS MAGADI

PROPERTIES

Section 1: Identification of the substance and company		
Product name	Soda ash	Use: Manufacture of glass among other uses
Chemical name	Sodium carbonate	
Alternative name	Magadi soda ash (Dense)	
Chemical formula	Na_2CO_3	
Manufacturer's name	Magadi Soda Co.	
Address	PO Box 1 – 00205 Magadi, Kenya	
Telephone Number	+254 (0) 20 6999 000	
Contact point	Commercial department	Tel No. +254 (0) 20 6999 304

Section 2: Composition / information on ingredient	
CAS No	497 – 19 - 8
EC No	207 – 838 - 8

Section 3: Physical and chemical properties			
Appearance	Slightly off white granules		
Solubility in water	71 g/l @ 0°C	Melting point	851 °C
	471 g/l @ 32°C		
Solubility in other solvents	Not available		
Flash point	Not applicable	Odour	Odourless
Flammability	Not flammable	Bulk density	> 900 kg/m^3
Auto ignition temp.	Not applicable	Specific gravity	2.53
pH value	11.4(1% w/w soln @20°C)	Explosive properties	None known
Pressure	Not applicable	Explosion limits	Not applicable

Section 4: Hazard identification
▫ Irritating to eyes, respiratory tract and skin

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Section 5: First aid measure		
General	▫	In all cases of doubt, or when symptoms persist, seek medical

		attention
Ingestion	▫	Do not induce vomiting
	▫	Wash out mouth with water and give plenty of water to drink (at least 300 ml)
	▫	Obtain medical attention, if necessary
Eye contact	▫	Immediately irrigate eye thoroughly with eye wash solution or clean water for at least 10 minutes
	▫	Hold eyelids away from the eyeball to ensure thorough rinsing
	▫	If irritation or inflammation persists, seek medical attention
Skin contact	▫	Remove contaminated clothing
	▫	Wash skin thoroughly with plenty of water
	▫	Launder clothes before reuse
Inhalation	▫	Move to fresh air. Keep warm and at rest.

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Section 6: Fire fighting measure		
Flash point	▫	Not applicable
Extinguishing media	▫	All extinguishing products are allowed
Special hazard	▫	Non-combustible
Hazardous decomposition products (under fire conditions)	▫	Not applicable

Section 7: Accidental release measures		
Personal precautions	▫	See personal protection measures given in Section 9
Environmental precautions	▫	Prevent discharges into environment (rivers, water courses, sewers etc)
	▫	See Section 13 for disposal details
Methods for clean up	▫	Clear up spillages by suitable means avoiding dust formation
	▫	Collect as much as possible in a suitable clean container, preferably for reuse, otherwise for disposal
	▫	Wash the spillage area with large quantities of water

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Section 8: Handling and storage		
Handling	▫	Avoid dust formation
	▫	Operate in a well ventilated area, atmospheric levels should be

		controlled in compliance with occupational exposure standard
	▫	Do not breathe dust
	▫	Avoid contact with skin and eyes
Storage	▫	Store in a cool dry place (in humid conditions the product will absorb moisture from the atmosphere and this will eventually cause caking and loss of free flowing properties)
	▫	Do not store together with acids

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Section 9: Exposure control and personal protection		
Engineering controls	▫	Provide adequate ventilation
	▫	Avoid inhalation of dusts
Occupational exposure limits	▫	Not listed by H & SE (Guidance Note EH40) or ACGIH (Ref. UK EH40 – Limits for Nuisance Dust)
	▫	Recommended Limits: OES 10mg/m^3(total dust) (8hr TWA), 5mg/m3 (respirable dust) (8hr TWA)
Respiratory protection	▫	In the case of high dust levels wear suitable respiratory protective equipment, ie, dust mask or respirator
Hand protection	▫	Wear suitable chemical resistant protective gloves for frequent or prolonged operations
Eye protection	▫	Suitable eye / face protection
Skin and body protection	▫	Protective clothing is required, overalls as a minimum

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Section 10: Stability and reactivity		
Stability	▫	Stable under recommended storage and handling conditions (see Section 8)
Conditions to avoid	▫	Contact with acids unless under controlled conditions
	▫	Contact with lime and moisture produces caustic soda
	▫	Humidity and moisture can cause caking of product
Materials to avoid	▫	Aluminium and zinc
	▫	Flourine
	▫	Sulphuric and other acids
	▫	Lithium
	▫	Phosphorus pentoxide
Hazardous	▫	Negligible, carbon dioxide gas can be emitted

decomposition products	▫	Carbon dioxide is liberated on reaction with acids

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Section 11: Ecological information		
Acute ecotoxicity	▫	Fish, Lepomis macrochirus: 96hr – LC:300mg/l
	▫	Daphnia magna:48hr – EC50: 265mg/l
	▫	Algae, Nitszcheria linearis:5day – EC50: 242mg/l
Bio-degradeability	▫	Aerobic / Anaerobic degradation – Not applicable(Inorganic compound)

Section 12: Toxicological information		
Acute toxicity	▫	4090 mg/kg
Oral LD 50, rat	▫	Sodium carbonate is a permitted food additive, however in large doses corrosion of the mucus membranes of the gastrointestinal may occur
Inhalation LC 50, rat	▫	2300 mg/m^3/2hr
	▫	High concentrations of dust may irritate the nasal membranes and respiratory tract.
Eye irritation	▫	Irritating to eyes
	▫	May cause corneal damage, permanent damage is unlikely
Skin irritation	▫	May cause irritation
	▫	Repeated and / or prolonged contact will remove natural grease resulting in dryness and caking
Long-term exposure	▫	Prolonged or repeated inhalation of high dust concentrations may cause ulceration of nasal septum, which may in time progress to perforation or complete destruction of nasal cartilage.

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Section 13: Disposal information		
Product	▫	Must be disposed in accordance with local, state or national regulations
	▫	Do not dispose of with acids
Packaging	▫	Must be disposed in accordance with local, state or national regulations
	▫	Contact the manufacturer about recycling

Section 14: Transport information
Not classified as hazardous for transport

Land transport	ADR Class	Not restricted	ADR item number	Not relevant
	RID Class	Not restricted	RID item number	Not relevant
	TREM-card	Not relevant	UN Number	None
	Hazard identification number	None	Substance identification number	None
	Proper shipping name	None		
Sea transport	IMO/IMDG	Not restricted	Class	Not relevant
	Packing group	None	UN number	None
	EMS	Not relevant	MFAG	Not relevant
	Marine pollutant	No		
	Proper shipping name	Not relevant		
Air transport	ICAO-TI/IATA-DGR Class	Not restricted	UN number	None
	Proper shipping name	None	Packing number	None

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Section 15: Regulatory information		
▫	Sodium carbonate is classified as irritant for supply and packages handling purposes	
EC Labelling		
	Chemical description	Anhydrous Sodium Carbonate
▫	Requirements according to Annex-1 of EC Directive 67/548/EEC	
▫	Meets the requirements of CHIP	
	EC Number	207 – 838 -8
	Symbols	Xi Irritant
	(R)isk phrase(s)	R36: Irritating to eyes
	(S)afety phrase(s)	S22: Do not breathe dust
		S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

Section 16: Other information

The information only concerns the above-mentioned product and is not necessarily valid if used with other product(s) or in any process. It does not constitute a hazard assessment and should not be used in place of the user’s own assessment of workplace risks as required by other health and safety legislation. The information is to our best present knowledge correct and complete and is given in good faith but without warranty