

TATA CHEMICALS LIMITED, MITHAPUR
MATERIAL SAFETY DATA SHEET

[As per Schedule 5 of the Gujarat Factories (Amended) Rules-1995 under rule 68-J, 2(2) & 2(3)]

SAFETY DATA SHEET

1. CHEMICAL IDENTITY

Chemical Name	SODA ASH (All Grade)	Chemical Classification	---
Synonyms	Crystal Carbonate	Trade Name	---
		C.A.S.No.	497-19-8
Formula	Na₂CO₃	U.N.No.	---
Regulated Identifications	Shipping Name	---	
	Codes/Label	---	
	Hazardous Waste I.D.No.	---	
	Hazchem No.	---	
Hazardous Ingredients		C.A.S. No.	Hazardous Ingredients
1	---	---	2

2. PHYSICAL AND CHEMICAL DATA

BOILING Range / Point °C	Physical State	Appearance
Decompose	Solid	Crystalline Powder
Melting/Freezing Point °C	Vapour Pressure at 35°C	Odour
---	---	Odourless
Vapour Density (Air =1)	Solubility in water at 30°C	Others
2.51	21.5 /100 parts at 20°C	---
Specific Gravity (Water=1)	pH	
2.509 at 0°	11.6	

3. FIRE AND EXPLOSION HAZARD DATA

Flammability	LEL	Flash Point °C
No	Not Applicable %	Not Applicable (OC)
TDG Flammability	UEL	Flash Point °C
---	Not Applicable %	Not Applicable (CC)
Autoignition Temperature °C	---	Combustible Liquid
Explosion Sensitivity to Impact	---	Flammable Material
Explosion Sensitivity to Static Electricity	---	Pyrophoric Material
Hazardous Combustion Product	---	Explosive Material
		Oxidiser
Hazardous Polymerisation	---	Organic Peroxide
Others	---	Corrosive Material

4. REACTIVE DATA

Chemical Stability	Stable
Incompatibility with other Material	---
Reactivity	Can react violently with P₂O₅, Al, H₂SO₄, Fe, Li, 2, 4, 6, Tri-nitrotolyne
Hazardous Reaction Products	Decompose at 400°C and evolve CO₂ and slowly absorb the moisture in air.

5. HEALTH HAZARDS DATA

Routes of Entry	Inhalation, Skin & Eyes			
Effects of Exposure/ Symptoms	---			
Emergency Treatment	Remove cloth, Shoes, wash eye with plenty of water for 15 minutes, skin with soap and take doctor advice.			
TLV (ACGIH)		STEL		
---	ppm	---	mg/m ³	---
Permissible Exposure Limit		Odour Threshold		
---	ppm	---	mg/m ³	---
LD ₅₀ (Oral Rat)	---			117 mg/Kg
NFPA Hazard	Health	Flammability	Reactivity	Special
Signals	---	---	---	---

6. PREVENTIVE MEASURES

Personal Protective Equipment	Rubber / PVC gloves, Dust Mask, Safety Goggles, Gum Boot Cover All other.			
Handling & Storage Precautions	Keep containers closed to store, wear rubber gloves, safety goggles & cover all. Keep containers in cool, dry and well ventilated place.			

7. EMERGENCY / FIRST AID MEASURES

FIRE	Fire Extinguishing Media	Not Flammable
	Special Procedure	Cool
	Unusual Hazardous	---
EXPOSURE	First Aid Measures	Remove cloth, Shoes, wash eye & skin with plenty of water, take Doctor's advice.
	Antidotes / Dosages	Symptomatic treatment, no specific antidote.
SPILLS	Steps to be Taken	Sweep it, dilute with sufficient water and neutralise with 6N- HCl
	Waste Disposal Method	Drain in to sewer with abundant water.

8. ADDITIONAL INFORMATION / REFERENCES

9. MANUFACTURERS / SUPPLIERS DATA

Name of Firm	 Tata Chemicals Ltd.,	Contact Person in Emergency	Safety & Fire Dept
Mailing Address	Mithapur - 361345	Local Bodies Involved	--
Telephone / Telex Nos.	(02892) 223439	Standard Packing	--
Telegraphic Address		Trem Card Details / Ref.	--

10.DISCLAIMER

Reasonable care has been taken in the preparation of the information contained in this Material Safety Data Sheet and is given in good faith. However, Tata Chemicals Limited, Mithapur assumes no responsibility as to the accuracy or suitability of such information and no warranty, expressed or implied, is made.