CENTURY - RAYON SHAHAD 421 103 MATERIAL SAFETY DATA SHEET



SECTION I: MATERIAL IDENTIFICATION & USE:CAUSTIC SODA, SODA LYE 50% SOLN

Material			CAUSTIC SOD	Α		
Name/Identii	fier		CAUSTIC SOD	A/SO	DIUM HYDROXIDE	
Manufacturer's Name		CENTURY CHEMICALS	Supplier's Name		CENTURY CHEMICALS	
Street Addre	ess MU	RBAD ROAD	Street Addr	ess N	MURBAD ROAD	
City		SHAHAD (Dist Thane)	City		SHAHAD (Dist Thane)	
State	-2733670-79	MAHARASHTR	A State		MAHARASHTRA	
Postal Code		421_103.	Postal Code Emergency C		21 103. 0251-2733670-	
		lhasnagar			Ulhasnagar	
Chemical Na	ame SOD	DIUM HYDROXI	DE Chemical I	denti	ty NaoH, 50% LYE	
Trade Name Synonyms	& CAUS	TIC SODA	Product Use		In Soap & Paper industry of rayon yarn, tyre yarn	
SECTION II	: HAZAROUS IN	GREDIENTS OF	MATERIAL			
Hazarous Ingredients	Approximate Conc. %	CAS or UN Number	LD 50 (Speci		LC 50 (Specify Species & Route)	
Caustic Soda	Minimum 50% Known as Soda lime	UN Number 1824	Males Allegar		Chemical burns on Skin	
SECTION III	: PHYSICAL DA	TA FOR MATE	ERIAL		toll Hires	
Physical State Gas/Liquid/Solid SOLID/LIQUID		Odour & Appearance Ordourless		Odour Threshold (ppm) 2 mg/m ³ - C		
Specific Gravity 1.53 - Variable with Conc.		Vapour Pressure (mm)		Vapour density (Air - 1)		
Evaporation rate		Boiling Point (°C) 142-148°C		Freezing Point (°C) Crystallisation 12-15°C Solidification 5°C		
Solubility in water (20°C) - Soluble in		PH 7-14 depends on conc		Density (g/ml) Variable with concentration		

Water to form soapy

Coefficient of water/oil distribution

Forms soapy solution and with oil, soap is formed

solution

SECTION IV : FIRE AND EXPLOSION HAZARD OF MATERIAL

Flammability - Yes/No	Means of Extinction	Special Procedures	
Flash Point (°C) & method	Upper Explosive limit (% by vol):-	Lower Explosive limit (% by vol) :-	
Auto-ignition temp (°C)	TDG flammability Class 2 UN No 1824	Hazardous combustion Product Generates hydrogen with metal such as Tin. Zinc	
Explosion data Sensitivity to Chemical impact		Sensitivity to static discharge - Explosion due to hydrogen forming with reaction of metals.	
SECTION V : REACTIVITY D	ATA	alor it loss	
Chemical stability - Yes/No infno, under what condition	Yes		
Imcompatibility with other substances - Yes/No. If Yes, which ones	Incompatible with aluminium, tin, zinc as it generates explosive hydrogen gas. Avoid storage with trichloroethylene.		
Description and under	Reacts with metals as stated above		
Reactivity and under what conditions			
		# 2000 3 4 200 30230,p	
what conditions Hazardous decomposition	A to a security of the second	# 300 1 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	
what conditions Hazardous decomposition Products Material - Name/	Liberates Hydrogen gas abo Caustic Soda/NaOH	ve	
what conditions Hazardous decomposition Products Material - Name/ Identifier	Liberates Hydrogen gas abo Caustic Soda/NaOH AL PROPERTIES OF MATERIA	AL (Route of Entry)	
what conditions Hazardous decomposition Products Material - Name/ Identifier SECTION VI : TOXICOLOGICA	Liberates Hydrogen gas abo Caustic Soda/NaOH	ve	
what conditions Hazardous decomposition Products Material - Name/ Identifier SECTION VI : TOXICOLOGICA Skin Control Causes Severe burns	Liberates Hydrogen gas abo Caustic Soda/NaOH AL PROPERTIES OF MATERIA Skin absorption Destruction of tissue	AL (Route of Entry) Eye Control Causes severe damage. Wash with plenty of water for 15-20 minutes	
what conditions Hazardous decomposition Products Material - Name/ Identifier SECTION VI : TOXICOLOGICA Skin Control	Liberates Hydrogen gas abo Caustic Soda/NaOH AL PROPERTIES OF MATERIA Skin absorption	AL (Route of Entry) Eye Control Causes severe damage. Wash with plenty of water	
what conditions Hazardous decomposition Products Material - Name/ Identifier SECTION VI : TOXICOLOGICA Skin Control Causes Severe burns Inhalation acute Causes stinging Sensation in nose	Liberates Hydrogen gas abo Caustic Soda/NaOH AL PROPERTIES OF MATERIA Skin absorption Destruction of tissue Inhalation chronic Damage to nose tissue	AL (Route of Entry) Eye Control Causes severe damage. Wash with plenty of water for 15-20 minutes Ingestion Causes severe injury to	

<u>SENSITIZATION TO MATERIAL</u>: (Carcinogenically, Reproductive Effects, Tetratogenicity, Mutagenicity) Carcinogenically.

SYNERGISTIC MATERIALS:

1) Severe damages to body tissue, (2) In contact with trichloroethylene, it forms flammable dichloroethylene.

SECTION VII : PREVENTIVE MEASURES

- I Safety showers and eye foutains to be provided
- 2 Drink large quntity of water if swallowed
- 3 Drench affected parts like skin, eyes with plenty of water for 15 minutes
- 4 Transport victim to hospital
- In contact with thrichloroethylene, it forms flammable dichloroethylene. Hence storage with this chemical is to be avoided.

PERSONAL PROTECTIVE EQUIPMENT

	1
Gloves (Specify)	PVC/rubber gloves
Respiratory (Specify)	Use dust mask or canister
Eyes (Specify)	Face shield made of acrylic sheet. Use safety goggles
Footwear (Specify)	Gumboot - PVC/rubber
Clothing (Specify) (Shirt)	PVC overall suit
Others (Specify)	Profit zuorognaci en francenti en Dangerous Bios

ENGINEERING CONTROLS (e.g., Ventilation, enclosed process etc) Please specify

Leak & Spill Procedures Use Water to wash off leaks and spills, i.e., dilution	Waste Disposal Flush contaminated area with plenty of water.
Handling Procedures & Eqpt Liquid Caustic Soda in mild steel pipelines and solid caustic soda in sealed containers	Storage requirements Store in well sealed containers keep away from concentrated acid. Liquid caustic soda can be stored in MS Tanks.

SPECIAL SHIPPING INFORMATION

UN No 1824, Class 8 corrosives HAZCHEM Symbol: 2 R (R - full body protection). Symbol (liquids, spilling from 2 glass vessels and attacking a hand and a metal): Black background: Upper half white, lower half black with white border.

SECTION VIII: FIRST AID MEASURES

FIRST AID MEASURES

- Rush to safety showers and remove the contaminated clothes and flush the victim for $15\ \mathrm{minutes}.$
- 2 Drink large quantities of water if swallowed
- Wash eyes for atleast 15 minutes if eyes are affected
- Wash affected skin area for 15 minutes
- Do not apply any ointment
- 6 Take the patient to hospital

SOURCES USED

- IS 252 1962 Specification of caustic soda, technical (revised)
- Chemical Safety Information Sheets of ICMA Association, Bombay. Transportation of Dangerous goods United Nations New York. 2

ADDITIONAL INFORMATION

Safety showers, eye fountain must be provided in caustic handling area

Can evolve flammable hydrogen in contact with metals.

SECTION IX : DATE OF PREPARATION OF MATERIAL SAFETY DATA SHEET

.........,0251-2733670-79 Prepared by Safety Dept, Century Rayon, KALYAN, Tel No . Ulhasnagar

Date :

NOTES

- CAS or UN Number Chemical Abstract Service or United Nations (UN)
- 2 LD 50 - Lethal dose 50 (LD 50 - Specify species & route)
- LC 50 Lethal concentration 50% (LC 50 Specify species & route) 3
- TDG flammability Transport of Dangerous Goods Flammability classification by United Nations.
