

CENTURY - RAYON, SHAHAD 421 103.

MATERIAL SAFETY DATA SHEET

SECTION I : MATERIAL IDENTIFICATION & USE : SODIUM SULFIDE - 30% LIQUID.

Material SODIUM SULFIDE

Name/Identifier. Na_2S liquid.

Manufacturers Name. CENTURY RAYON

SUPPLIER'S Name.

CENTURY RAYON

Street Address MURBAD ROAD
City SHAHAD
(Dist: Thane)Street Road MURBAD ROAD.
City SHAHAD
(Dist: Thane)

Postal Code 421 103.

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Emergency Tel 0251-2733670-79 Ulhasnagar

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Chemical Name SODIUM SULFIDE

Chemical Identity Na_2S Trade Name & Synonyms SODIUM SULFIDE
SODIUM
MONOSULFIDE.

Product Use Fungicide, leather industry.

SECTION II : HAZARDOUS INGREDIENTS OF MATERIAL.

Hazardous Ingredients	Approximate Conc. %	CAS or UN Number	LD 50 (Specify Species & Route)	LC 50 (Specify Species & Route)
H_2S Vapours	30% Na_2S	UN Number 1385	-	Through skin and mouth

SECTION III - PHYSICAL DATA FOR MATERIAL

Physical State Gas/Liquid/- Solid. Liquid 30%	Odour & Appearance Pungent - reddish liquid.	Odour Threshold (ppm)
Specific gravity 1.195	Vapour pressure (mm) -	Vapour density (Air-1) -
Evaporation rate -	Boiling point ($^{\circ}\text{C}$) -	Freezing Point ($^{\circ}\text{C}$) -
Solubility in water (20 $^{\circ}\text{C}$) - Soluble completely.	PH -	Density (g/ml) 1.2 for 30% liquid.
Coefficient for water/oil distribution.	Molecular wt : 78.06	Melting Pt : 1180 $^{\circ}\text{C}$

SECTION IV : FIRE AND EXPLOSION HAZARD OF MATERIAL.

Flammability - Yes/No NO	Means of Extinction -	Special Procedures. -
Flash Point (°C). and method :	Upper Explosive limit (% by vol)	Lower Explosive limit (% by vol)
Auto-ignition temp (°C)	TDG flammability UN No. 1385	Hazardous combustion Product - Toxic fumes.
Explosion Data - sensitivity to chemical impact	-	Sensitivity to Static Discharge -

SECTION V : REACTIVITY DATA.

Chemical stability yes/No If no, under what Condition	Yes.
Incompatibility with other substances - Yes/No, if yes, which ones.	Keep away from heat, flame and oxidising agents.
Reactivity and under what conditions	Reacts with water and acid to produce toxic and flammable vapours.
Hazardous decomposition products.	When heated, emits toxic fumes.
Material Name/Identifier	Sodium sulfide 30%

SECTION VI : TOXICOLOGICAL PROPERTIES OF MATERIAL (route of entry)

Skin contact Hair is removed - chemical burns	Skin absorption Chemical irritation	Eye contact. Irritation - wash with plenty of water for 15 Mts.
Inhalation acute Irritation to nose	Inhalation chronic Damage to mucous membrane	Ingestion Corrosive to alimentary Canal.

Effects of Acute Exposure to Material - Nil

Effects of chronic exposure to material Damages mucous membranes of nose and eyes	Exposure limit (s) -	Irritancy of material Damages mucuous membrane.
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SENSITIZATION TO MATERIAL (carcinogenically, reproductive effects, tetrato-
Carcinogenically genically, mutagenicity)

SYNERGISTIC MATERIALS : Health hazards due to liberation of H_2S and free alkali
in Stomach

SECTION VII : PREVENTIVE MEASURES

1. Do not touch the material.
2. Do not inhale dust or mist.
3. Adequate ventilation is necessary.
4. Avoid heat source near the tank of Na_2S .

PERSONAL PROTECTIVE EQUIPMENT

Gloves (Specify) PVC/rubber

Respiratory (Specify) -

Eye (Specify) Goggles and face shield.

Footwear (Specify) Gumboots PVC/rubber

Clothing (Specify) Rubber/PVC apron and overall suit.

Others Specify -

ENGINEERING CONTROLS (e.g., ventilation, enclosed process etc.) Please specifyLeak & Spill Procedures

Wash with water

Waste disposalHandling Procedure & Equipment

MS Pipe lines

Storage requirements

MS Tanks

SPECIAL SHIPPING INFORMATION.

FOR LIQUID : UN Number 1385 - Class 4.2 Substance liable to spontaneous combustion. SYMBOL - (Flame) Black background - upper half white, lower half red-HACHEM SYMBOL : 2 R.

SECTION VIII : FIRST AID MEASURES**FIRST AID MEASURES**

1. Inhalation : Remove to fresh air, restore breathing.
2. Skin contact - wash residue with plenty of water, adequate ventilation.
3. Ingestion : If taken by mouth. it is corrosive and irritant through liberation of hydrogen sulfide and free alkali in stomach. Therefore, do not swallow.

SOURCES USED

1. Chemical safety information sheet.
2. Transport of dangerous goods - United Nations, New York.

ADDITIONAL INFORMATION

1. Avoid contact with oxidisers, steam, water, acids
2. Reacts with acids to produce toxic and flammable vapours.
3. Keep material away from heat, flame and acid.

SECTION IX : DATE OF PREPARATION OF MATERIAL SAFETY DATA SHEET

Prepared by Safety Deptt. of Century Rayon, 04057077, Uthasnagar

0251-2773670-79

Date : 23.6.1990.

NOTES

1. CAS or UN Number - Chemical Abstract Service or United Nations (UN) Number.
2. LD50 - Lethal dose 50 (LD 50 - Specify species & route)
3. LD50 - Lethal concentration 50% (LC 50 Specify species & route)
4. TDG flammability - Transport of Dangerous Goods Flammability classification by United Nations
