



MATERIAL SAFETY DATA SHEET

NARMADA CHEMATUR PETROCHEMICALS LTD,

NITROBENZENE

1. CHEMICAL IDENTITY

Chemical Name	: NITROBENZENE	: Chemical Classification	Nitro Compound
Synonyms	: Nitrobenzol, Essence of Mirbane, Mirabance Oil	: Trade Name	
Formula	: C6H3NO2	: C.A.S. No.	: U.N. No.
Regulated Identification		: Shipping Name	Nitrobe Hazchem Code 2 X
		: Codes/label	: Poison, Class 6
		: Hazardous Waste ID No.	: 5
HAZARDOUS INGREDIENTS	: C.A.S. No.	HAZARDOUS INGREDIENT	: C.A.S. No.
1 Nitrobenzene	98-95-3	3	
2		4	

2 . PHYSICAL / CHEMICAL DATA

Boiling Pt / Range	210.9 °C	: Physical State	Liquid / Solid:	Appear	Light Yellow
				ance	Brown
		: Vapour Pressure		Odour	Butter Almond c Shoe Polish



Melting / Freezing Pt	5.1°C	:	@35°C 1 mm Hg at 44.4°C	:		like
Vapour Density	4.25	:	Solubility	:	Others	Soluble in Alcohol, Benzene, Ether, Oils
(Air = 1)		:	in water at 30°C Slightly Soluble	:		
Specific Gravity	Not Available	:	pH	:	Not Pertinent	
(Water = 1)		:		:		

3. FIRE / EXPLOSION HAZARD DATA

Flammability	NO	:	LEL 1.8 at 93°C %	:	Flash Point °C	Not Available (OC)
TDG Flammability	N. A.	:	UEL Not Available %	:	Flash Point °C	88 (OC)
Autogination Temperature	°C	:		:	482.2	
Explosion sensitivity to impact		:		:	Stable	
Explosion sensitivity to static Electricity		:	Data Not Available	:		

: Emits toxic fumes of Nox

Hazardous Polymerization	:	Will not occur
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YES	:	Explosive Material	
NO	:	Corrosive Material	NO
NO	:	Oxidiser	
NO	:	Others	
NO	:	Organic Peroxide	
NO	:		

4. REACTIVITY DATA

Chemical Stability	:	Stable
Incompatibility	:	Concentrated Nitric Acid, Nitrogen, Tetraxide, Caustics, Potassium Hydroxide, Chemically
with other material	:	Actove Metals like Tin and Zinc.
Reactivity	:	Reacts violently with Aniline + Glycerin, N ₂ O and AgClO ₄ Forms explosive mixtures with Aluminium chloride;
Hazardous	:	oxidants; and H ₂ SO ₄
Reaction Products	:	Toxic and corrosive gases and vapours

5. HEALTH HAZARDOUS DATA

Routes of entry	:	Skin, Inhalation, Ingestion, Eyes. Highly toxic when absorbed through the skin. Firsy symptoms are a blue discolouration of the lips, nails and skin
Effects of Exposure /	:	Acute poisoning produces headache, giddiness, weakness, mausea, vomiting and coma.
Symptoms	:	
Emergency	:	Inhalation : Remove the victim to fresh air ara. Administer oxygen if needed. Eyes &Skin : Immediately flush skin or eyes with plenty of water for at least 15 mins. If cyanosis (blue discolouration) is present, shower with soap and warm water,
Treatment	:	with special attention to scalp and finger nails. Seek Medical Aid Immediately.
LD ₅₀ (Oral-Rat)	:	489 mg/kg : STEL Not listed ppm Not



Permissible Exposure Limit		listed mg/m ³	
TLV (ACGIH)		1 (Skin) ppm 5 (Skin) mg/m ³	: Odour
NEPA Hazard :		Threshold 5.94 ppm 29.88 mg/m ³	
		1 (Skin) ppm 5 (Skin) mg/m ³	:
		Health : Flammability	:
		Reactivity	:
		Special	:
Signals :	3	: 2	: 0

6. PREVENTIVE MEASURES

- Personnel : Avoid contact with liquid or vapours. Do not eat or drink at work place.
- Protective : Provide approved respirator, rubber hand gloves, safety goggles, eye wasy
- Equipment : fountain, safety shower, medical oxygen.
- Handling : & Store only in a cool, dry, well-ventilated location away from heat and spark
- Storage :
- Precaution :

7. EMERGENCY / FIRST AID MEASURE:

- FIRE : Fire Extinguishing : Water, Foam, CO2 & Dry Chemical Powder
- : Media :
- : : Keep the containers cool by spraying if exposed to
- : Special Procedure heat or flame.
- : Unusual Hazard : Poisonous vapours are prodeded.
- : : If inhaled, remove the victim to fresh air area. If skin
- EXPOSURE : First Aid Measures is affected remove te contaminated
- : clothes and wash with plenty of water. If blue
- : discolouration is seen then wash with soap and
- : warm water. Seek Medical Aid Immediately.
- :
- :
- : Antidotes / : Not Available
- Dosages
- SPILLS

- : Steps To Be Taken : Use absorbent proper to pick up spilled material.
Wash the surface with plenty of soap and
- : water.
- : Waste Disposal :
- : Method

8. ADDITIONAL INFORMATION / REFERENCES

Human Poison by unspecified routes. It is absorbed rapidly through the skin. Vapours are hazardous. An Oxidant. Flammable when exposed to heat, flame. Explosive reaction with solid or concentrated alkali + heat. Have adequate ventilation while handling.