


DR. J. PHARMACHEM (INDIA)

<b>MATERIAL SAFETY DATA SHEET</b>	
<b>1</b>	<b>IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING</b>
<b>1.1</b>	<b>Product identifiers</b>
	Product Name N,N-Dibenzylmethylamine
	CAS NO. 102-05-6
<b>1.2</b>	<b>Relevant identified uses of the substance or mixture and uses advised against</b>
	Identified uses Laboratory chemicals, Manufacture of substances
<b>1.3</b>	<b>Details of the supplier of the safety data sheet</b>
	COMPANY DR. J. PHARMACHEM (INDIA)
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<b>2</b>	<b>HAZARDS IDENTIFICATION</b>
<b>2.1</b>	<b>Classification of the substance or mixture</b>
	<b>Classification according to Regulation (EC) No 1272/2008</b>
	Acute toxicity, Oral (Category 3), H301 Skin irritation (Category 2), H315 Eye irritation (Category 2), H319 Respiratory sensitisation (Category 1), H334 Specific target organ toxicity - single exposure (Category 3), H335 Acute aquatic toxicity (Category 1), H400
	<b>Classification according to EU Directives 67/548/EEC or 1999/45/EC</b>
	T, Xi, N Toxic, Irritant, Dangerous for the environment R25, R36/37/38, R43, R50/53
<b>2.2</b>	<b>Label elements</b>
	<b>Labelling according Regulation (EC) No 1272/2008 [CLP]</b>
	Pictogram 
	Signal word Danger
	Hazard statement(s)
	H301 Toxic if swallowed. H315 Causes skin irritation.



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	H319 H334  H335 H400	Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Very toxic to aquatic life.
	Precautionary statement(s)	
	P261 P273 P301 + P310  P305 + P351 + P338  P342 + P311	Avoid breathing vapours. Avoid release to the environment. IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/ physician.
	Supplemental Hazard Statements	none
	R-phrase(s)	
	R25 R36/37/38 R43 R50/53	Toxic if swallowed. Irritating to eyes, respiratory system and skin. May cause sensitisation by skin contact. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
2.3	<b>Other hazards</b>	none
3	<b>COMPOSITION/INFORMATION ON INGREDIENTS</b>	
3.1	<b>Substances</b>	
	Synonyms	Dibemethine
	Formula	C15H17N
	Molecular Weight	211.13 g/mol
	<b>Component</b>	<b>Concentration</b>
	Dibemethine	Min 98%
	Other unknown impurities	Up to 2%
4	<b>FIRST AID MEASURES</b>	
4.1	<b>Description of first aid measures</b>	
	<b>General advice</b>	Consult a physician. Show this safety data sheet to the doctor in attendance.
	<b>If inhaled</b>	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
	<b>In case of skin contact</b>	Wash off with soap and plenty of water. Consult a physician.
	<b>In case of eye contact</b>	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
	<b>If swallowed</b>	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.



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4.2	<b>Most important symptoms and effects, both acute and delayed</b>	
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
4.3	<b>Indication of any immediate medical attention and special treatment needed</b>	
	No data available	
5	<b>FIREFIGHTING MEASURES</b>	
5.1	<b>Extinguishing media</b>	
	<b>Suitable extinguishing media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2	<b>Special hazards arising from the substance or mixture</b>	Carbon oxides, nitrogen oxides (NO <sub>x</sub> )
5.3	<b>Advice for firefighters</b>	Wear self contained breathing apparatus for firefighting if necessary.
5.4	<b>Further information</b>	No data available
6	<b>ACCIDENTAL RELEASE MEASURES</b>	
6.1	<b>Personal precautions, protective equipment and emergency procedures</b>	
	Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.	
6.2	<b>Environmental precautions</b>	
	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.	
6.3	<b>Methods and materials for containment and cleaning up</b>	
	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.	
6.4	<b>Reference to other sections</b>	
	For disposal see section 13.	
7	<b>HANDLING AND STORAGE</b>	
7.1	<b>Precautions for safe handling</b>	
	Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.	
7.2	<b>Conditions for safe storage, including any incompatibilities</b>	
	Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.	
7.3	<b>Specific end uses</b>	
	no data available	
8	<b>EXPOSURE CONTROLS/PERSONAL PROTECTION</b>	
8.1	<b>Control parameters</b>	
	<b>Components with workplace control parameters</b>	
8.2	<b>Exposure controls</b>	
	<b>Appropriate engineering controls</b>	
	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.	
	<b>Personal protective equipment</b>	
	<b>Eye/face protection</b>	
	Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).	
	<b>Skin protection</b>	



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	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.	
	<b>Body Protection</b>	
	Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace	
	<b>Respiratory protection</b>	
	Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).	
9	<b>PHYSICAL AND CHEMICAL PROPERTIES</b>	
9.1	<b>Information on basic physical and chemical properties</b>	
a)	Appearance	Form : liquid
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	pH	no data available
e)	Melting range/freezing range	no data available
f)	Initial boiling point and boiling range	288.7 °C at 760 mmHg
g)	Flash point	no data available
h)	Enthalpy of Vaporization	52.79 kJ/mol
i)	Index of Refraction	1.578
j)	Molar Refractivity	68.64 cm <sup>3</sup>
k)	Vapour pressure	0.00231 mmHg at 25°C.
l)	Density	1.022 g/cm <sup>3</sup>
m)	Oxidizing properties	no data available
n)	Solubility	Soluble in Methanol
o)	Partition coefficient: noctanol/water	log Pow: 3.047
p)	Polarizability	no data available
q)	Decomposition temperature	no data available
r)	Molar Volume	206.7 cm
s)	Surface Tension	40.5 dyne/cm
9.2	<b>Other safety information</b>	
	IUPAC Name	N-benzyl-N-methyl-1-phenylmethanamine.
	Molecular Formula	C15H17N
	Molecular Weight	211.13 g/mol
	SMILES	CN(CC1=CC=CC=C1)CC2=CC=CC=C2
	InChI	InChI=1S/C15H17N/c1-16(12-14-8-4-2-5-9-14)13-15-10-6-3-7-11-15/h2-11H,12-13H2,1H3
	EINECS	203-001-6
10	<b>STABILITY AND REACTIVITY</b>	
10.1	<b>Reactivity</b>	no data available
10.2	<b>Chemical stability</b>	Stable under recommended storage conditions.



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10.3	<b>Possibility of hazardous reactions</b>	no data available
10.4	<b>Conditions to avoid</b>	no data available
10.5	<b>Incompatible materials</b>	Strong oxidizing agents
10.6	<b>Hazardous decomposition products</b>	Other decomposition products - no data available
11	<b>TOXICOLOGICAL INFORMATION</b>	
11.1	<b>Information on toxicological effects</b>	
	<b>Acute toxicity</b>	no data available
	<b>Skin corrosion/irritation</b>	no data available
	<b>Serious eye damage/eye irritation</b>	no data available
	<b>Respiratory or skin sensitization</b>	no data available
	<b>Germ cell mutagenicity</b>	no data available
	<b>Carcinogenicity</b>	IARC: No component of this product presents at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
	<b>Reproductive toxicity</b>	no data available
	<b>Specific target organ toxicity - single exposure</b>	Inhalation - May cause respiratory irritation.
	<b>Specific target organ toxicity - repeated exposure</b>	no data available
	<b>Aspiration hazard</b>	no data available
	<b>Potential health effects</b>	
	<b>Inhalation</b>	May cause respiratory tract irritation.
	<b>Ingestion</b>	May be harmful if swallowed.
	<b>Skin</b>	Causes skin irritation.
	<b>Eyes</b>	Causes eye irritation.
	<b>Signs and Symptoms of Exposure</b>	
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
	<b>Additional Information</b>	
	RTECS	Not available
12	<b>ECOLOGICAL INFORMATION</b>	
12.1	<b>Toxicity</b>	no data available
12.2	<b>Persistence and degradability</b>	no data available
12.3	<b>Bioaccumulative potential</b>	no data available
12.4	<b>Mobility in soil</b>	no data available
12.5	<b>Results of PBT and vPvB assessment</b>	no data available
12.6	<b>Other adverse effects</b>	Very toxic to aquatic life.
13	<b>DISPOSAL CONSIDERATIONS</b>	
13.1	<b>Waste treatment methods</b>	
	<b>Product</b>	
	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.	
	<b>Contaminated packaging</b>	
	Dispose of as unused product.	
14	<b>TRANSPORT INFORMATION</b>	
14.1	<b>UN number</b>	



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	ADR/RID	IMDG	IATA
	2810	2810	2810
14.2	<b>UN proper shipping name</b>		
	ADR/RID	IMDG	IATA
	TOXIC LIQUID, ORGANIC, N.O.S. (Dibemethine)	TOXIC LIQUID, ORGANIC, N.O.S. (Dibemethine)	Toxic liquid, organic, n.o.s. (Dibemethine)
14.3	<b>Transport hazard class(es)</b>		
	ADR/RID	IMDG	IATA
	6.1	6.1	6.1
14.4	<b>Packaging group</b>		
	ADR/RID	IMDG	IATA
	III	III	III
14.5	<b>Environmental hazards</b>		
	ADR/RID	IMDG Marine pollutant	IATA
	yes	yes	no
14.6	<b>Special precautions for user</b>		
	no data available		
15	<b>REGULATORY INFORMATION</b>		
	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.		
15.1	<b>Safety, health and environmental regulations/legislation specific for the substance or mixture</b>		
	no data available		
15.2	<b>Chemical Safety Assessment</b>		
	no data available		
16	<b>OTHER INFORMATION</b>		
	<b>Further information</b>		
	<p>The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Dr J Pharmachem (India) and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See <a href="http://www.jpharmachem.com">www.jpharmachem.com</a> and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.</p> <p>Month of creation :- November 2013 Month of revision :- November 2016</p>		