

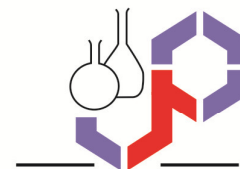
DR. J. PHARMACHEM (INDIA)

MATERIAL SAFETY DATA SHEET	
1	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING
1.1	Product identifiers
	Product Name 1,4-Cyclohexanemethanol Dibenzoate
	CAS NO. 35541-81-2
1.2	Relevant identified uses of the substance or mixture and uses advised against
	Identified uses Laboratory chemicals, Manufacture of substances
1.3	Details of the supplier of the safety data sheet
	COMPANY DR. J. PHARMACHEM (INDIA)
	722/AB/15 'NIRMAL' ,LAXMI PARK COLONY,
	NAVI PETH , PUNE- 411 030.INDIA
	Telephone : 020-24530071
	Fax : 020-24530110
2	HAZARDS IDENTIFICATION
	SPECIAL INDICATION OF HAZARDS TO HUMANS AND THE ENVIRONMENT
	May cause long-term adverse effects in the aquatic environment.
	Not hazardous according to Directive 67/548/EEC.
3	COMPOSITION/INFORMATION ON INGREDIENTS
3.1	Substances
	Synonyms 1,4-Cyclohexanedimethanol dibenzoate,mixture of cis and trans; 1,4-Bis-(hydroxymethyl)-cyclohexane dibenzoate
	Formula C ₂₂ H ₂₄ O ₄
	Molecular Weight 352.42
	Component Concentration
	1,4-Cyclohexanedimethanol dibenzoate mixture of cis and trans Min 97%
	Other Unknown impurities Up to 3%
4	FIRST AID MEASURES
4.1	Description of first aid measures
	General advice Consult a physician. Show this safety data sheet to the doctor in attendance.
	If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.
	In case of skin contact Wash off with soap and plenty of water. Consult a



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		physician.
	In case of eye contact	Flush eyes with water as a precaution.
	If swallowed	Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2	Most important symptoms and effects, both acute and delayed	
4.3	Indication of any immediate medical attention and special treatment needed	
		No data available
5	FIREFIGHTING MEASURES	
5.1	Extinguishing media	
	Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
5.2	Special hazards arising from the substance or mixture	Emits toxic fumes under fire conditions.
5.3	Advice for firefighters	Wear self contained breathing apparatus for firefighting if necessary.
5.4	Further information	No data available
6	ACCIDENTAL RELEASE MEASURES	
6.1	Personal precautions, protective equipment and emergency procedures	
		Use personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Avoid breathing dust.
6.2	Environmental precautions	
		Do not let product enter drains.
6.3	Methods and materials for containment and cleaning up	
		Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.
6.4	Reference to other sections	
		For disposal see section 13.
7	HANDLING AND STORAGE	
7.1	Precautions for safe handling	
		Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed.
7.2	Conditions for safe storage, including any incompatibilities	
		Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Light sensitive.
7.3	Specific end uses	
		no data available
8	EXPOSURE CONTROLS/PERSONAL PROTECTION	
8.1	Control parameters	
		Components with workplace control parameters
8.2	Exposure controls	
		Appropriate engineering controls
		Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
		Personal protective equipment
		Eye/face protection
		Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).



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	Skin protection	
	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.	
	Body Protection	
	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	
	Respiratory protection	
	For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).	
9	PHYSICAL AND CHEMICAL PROPERTIES	
9.1	Information on basic physical and chemical properties	
a)	Appearance	Form : Solid Colour: White
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting range/freezing range	117-120°C
f)	Initial boiling point and boiling range	no data available
g)	Flash point	no data available
h)	Enthalpy of Vaporization	73.59 kJ/mol
i)	Index of Refraction	1.549
j)	Molar Refractivity	99.74 cm ³
k)	Vapour pressure	4.13E-09 mmHg at 25 °C.
l)	Density	1.125 g/cm ³
m)	Oxidizing properties	No data available
n)	Water solubility	Insoluble in water
o)	Partition coefficient: octanol/water	No data available
p)	Polarizability	No data available
q)	Decomposition temperature	No data available
r)	Molar Volume	313.1 cm ³
s)	Surface Tension	44.6 dyne/cm
9.2	Other safety information	
	Molecular Formula	C22H24O4
	Molecular Weight	352.42
	SMILES	O=C(OCC2CCC(COC(=O)c1cccc1)CC2)c3cccc3
	InChI	InChI=1S/C22H24O4/c23-21(19-7-3-1-4-8-19)25-15-17-11-13-18(14-12-17)16-26-22(24)20-9-5-2-6-10-20/h1-10,17-18H,11-16H2
	EINECS	416-230-3
10	STABILITY AND REACTIVITY	
10.1	Reactivity	no data available



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10.2	Chemical stability	no data available
10.3	Possibility of hazardous reactions	no data available
10.4	Conditions to avoid	no data available
10.5	Incompatible materials	Strong oxidizing agents
10.6	Hazardous decomposition products	Carbon monoxide ,Carbon dioxide
11	TOXICOLOGICAL INFORMATION	
11.1	Information on toxicological effects	
	Acute toxicity	no data available
	Skin corrosion/irritation	no data available
	Serious eye damage/eye irritation	no data available
	Respiratory or skin sensitization	no data available
	Germ cell mutagenicity	no data available
	Carcinogenicity	no data available
	Reproductive toxicity	no data available
	Specific target organ toxicity - single exposure	no data available
	Specific target organ toxicity - repeated exposure	no data available
	Aspiration hazard	no data available
	Potential health effects	
	Inhalation	May be harmful if inhaled. May cause respiratory tract irritation.
	Ingestion	Harmful if swallowed.
	Skin	Harmful if absorbed through skin. May cause skin irritation.
	Eyes	May cause eye irritation.
	Signs and Symptoms of Exposure	
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
	Additional Information	
	RTECS	Not available
12	ECOLOGICAL INFORMATION	
12.1	Toxicity	no data available
12.2	Persistence and degradability	no data available
12.3	Bioaccumulative potential	no data available
12.4	Mobility in soil	no data available
12.5	Results of PBT and vPvB assessment	no data available
12.6	Other adverse effects	no data available
13	DISPOSAL CONSIDERATIONS	
13.1	Waste treatment methods	
	Product	
	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.	
	Contaminated packaging	
	Dispose of as unused product.	
14	TRANSPORT INFORMATION	
14.1	UN number	



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	ADR/RID	IMDG	IATA
	-	-	-
14.2	UN proper shipping name		
	ADR/RID	IMDG	IATA
	Not dangerous goods	Not dangerous goods	Not dangerous goods
14.3	Transport hazard class(es)		
	ADR/RID	IMDG	IATA
	-	-	-
14.4	Packaging group		
	ADR/RID	IMDG	IATA
	-	-	-
14.5	Environmental hazards		
	ADR/RID	IMDG Marine pollutant	IATA
	no	no	no
14.6	Special precautions for user		
	no data available		
15	REGULATORY INFORMATION		
	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.		
15.1	Safety, health and environmental regulations/legislation specific for the substance or mixture		
	no data available		
15.2	Chemical Safety Assessment		
	no data available		
16	OTHER INFORMATION		
	Further information		
	<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 www.jpharmachem.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.</p> <p>Month of creation :- September 2013 Month of revision :- September 2016</p>		