


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 Methyl benzoate
	CAS NO. 93-58-3
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
2.1	Classification of the substance or mixture
	Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]
	Acute toxicity, Oral (Category 4)
	Classification according to EU Directives 67/548/EEC or 1999/45/EC
	Harmful if swallowed.
2.2	Label elements
	Labelling according Regulation (EC) No 1272/2008 [CLP]
	Pictogram 
	Signal word Warning
	Hazard statement(s)
	H302 Harmful if swallowed.
	Precautionary statement(s) none
	Supplemental Hazard Statements none
	According to European Directive 67/548/EEC as amended
	R-phrase(s)
	R22 Harmful if swallowed.



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2.3	Other hazards	none
3	COMPOSITION/INFORMATION ON INGREDIENTS	
3.1	Substances	
	Synonyms	Benzoic acid methyl ester; Methyl benzenecarboxylate
	Formula	C ₈ H ₈ O ₂
	Molecular Weight	136.15 g/mol
	Component	Concentration
	Methyl benzoate	Min 98%
	Other unknown impurities	Up to 2%
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 physician.
	In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.
	If swallowed	Do NOT induce vomiting. 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	
	To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.	
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	For small (incipient) fires, use media such as "alcohol" foam, dry chemical, or carbon dioxide. For large fires, apply water from as far as possible. Use very large quantities (flooding) of water applied as a mist or spray; solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water.
5.2	Special hazards arising from the substance or mixture	Carbon oxides
5.3	Advice for firefighters	Wear self contained breathing apparatus for firefighting if necessary.
5.4	Further information	Use water spray to cool unopened containers.
6	ACCIDENTAL RELEASE MEASURES	
6.1	Personal precautions, protective equipment and emergency procedures	
	Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate	



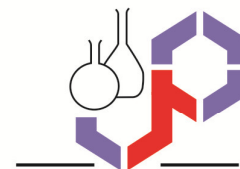
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	ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
6.2	Environmental precautions
	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
6.3	Methods and materials for containment and cleaning up
	Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). 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 inhalation of vapour or mist. Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.
7.2	Conditions for safe storage, including any incompatibilities
	Store in cool place. Keep container tightly closed in a dry and well-ventilated place.
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
	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).
	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
	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



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	standards such as NIOSH (US) or GEN (EU).	
	Control of environmental exposure	
	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.	
9	PHYSICAL AND CHEMICAL PROPERTIES	
9.1	Information on basic physical and chemical properties	
a)	Appearance	Form : clear, liquid Colour : colourless
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting range/freezing range	-12 °C - lit.
f)	Initial boiling point and boiling range	198 - 199 °C - lit.
g)	Flash point	83 °C - closed cup
h)	Enthalpy of Vaporization	No data available
i)	Index of Refraction	No data available
j)	Molar Refractivity	No data available
k)	Vapour density	4.7 - (Air = 1.0)
l)	Relative density	1.088 g/cm ³ at 20 °C
m)	Oxidizing properties	No data available
n)	Solubility	No data available
o)	Partition coefficient: octanol/water	log Pow: 2.1
p)	Polarizability	No data available
q)	Decomposition temperature	No data available
r)	Molar Volume	No data available
s)	Surface Tension	No data available
9.2	Other safety information	
	IUPAC Name	Methyl benzoate
	Molecular Formula	C ₈ H ₈ O ₂
	Molecular Weight	136.15 g/mol
	SMILES	CO(=O)C1=CC=CC=C1
	InChI	InChI=1/C ₈ H ₈ O ₂ /c1-10-8(9)7-5-3-2-4-6-7/h2-6H,1H3
	EINECS	202-259-7
10	STABILITY AND REACTIVITY	
10.1	Reactivity	no data available
10.2	Chemical stability	Stable under recommended storage conditions.
10.3	Possibility of hazardous reactions	no data available
10.4	Conditions to avoid	Heat, flames and sparks.
10.5	Incompatible materials	Strong oxidizing agents, Strong bases
10.6	Hazardous decomposition products	Other decomposition products - no data available
11	TOXICOLOGICAL INFORMATION	
11.1	Information on toxicological effects	
	Acute toxicity	LD50 Oral - rat - 1.177 mg/kg Remarks: Behavioral:Change in motor activity



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		(specific assay). Diarrhoea Skin and Appendages: Other: Hair.	
	Skin corrosion/irritation	Skin - rabbit Result: Mild skin irritation - 24 h	
	Serious eye damage/eye irritation	Eyes - rabbit Result: Mild eye irritation - 24 h	
	Respiratory or skin sensitization	no data available	
	Germ cell mutagenicity	no data available	
	Carcinogenicity	IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.	
	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	
	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	DH3850000	
12	ECOLOGICAL INFORMATION		
12.1	Toxicity		
	Toxicity to fish	LC50 - Danio rerio (zebra fish) - 23 mg/l - 96 h	
	Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) – 62.6 mg/l - 24 h	
12.2	Persistence and degradability	Biodegradability	
12.3	Bioaccumulative potential	no data available	
12.4	Mobility in soil	no data available	
12.5	Results of PBT and vPvB assessment		
	PBT/vPvB assessment not available as chemical safety assessment not required/not conducted		
12.6	Other adverse effects	Harmful to aquatic life.	
13	DISPOSAL CONSIDERATIONS		
13.1	Waste treatment methods		
	Product		
	This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.		
	Contaminated packaging		
	Dispose of as unused product.		
14	TRANSPORT INFORMATION		
14.1	UN number		
	ADR/RID	IMDG	IATA
	-	-	-



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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 :- November 2013 Month of revision :- November 2016</p>		