

	MATERIAL SAFETY DATA SHEET		
1	IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING		
1.1 Product identifiers			
	Product Name	Ambuphylline	
	CAS NO.	5634-34-4	
1.2	.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	2.1 Classification of the substance or mixture		
	Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]		
	Acute toxicity, Oral (Category 3)		
	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	Danger	
	Hazard statement(s)		
	H301	Toxic if swallowed.	
	Precautionary statement(s)		
	P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.	



If inhaled  If breathed in, move person into fresh air. If no breathing, give artificial respiration. Consult a physician.  In case of skin contact  Wash off with soap and plenty of water. Take immediately to hospital. Consult a physician.  In case of eye contact  If swallowed  If swallowed  Never give anything by mouth to an unconscionerson. Rinse mouth with water. Consult a physician.  4.2  Most important symptoms and effects, both acute and delayed  Nausea, Vomiting, Headache, Diarrhoea, Epigastric pain., Circulatory collapse  Indication of any immediate medical attention and special treatment needed  No data available  FIREFIGHTING MEASURES  5.1  Extinguishing media  Suitable extinguishing media  Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  Special hazards arising from the substance or mixture  Salvice for firefighters  Wear self contained breathing apparatus for firefighting if necessary.	Supplemental Hazard Statements none			
R-phrase(s)  R22 Harmful if swallowed. S-phrase(s) none  0. Other hazards none  3. COMPOSITION/INFORMATION ON INGREDIENTS 3.1 Substances Synonyms Theophylline-2-aminoisobutanol Formula C11H18N5O3 Molecular Weight 269.3003 Component Concentration Ambuphylline 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 she the doctor in attendance.  If inhaled If breathed in, move person into fresh air. If no breathing, give artificial respiration. Consult a physician.  In case of skin contact Wash off with soap and plenty of water. Take immediately to hospital. Consult a physician.  In case of eye contact Flush eyes with water as a precaution. If swallowed Never give anything by mouth or a uniconscic person. Rinse mouth with water. Consult a physician.  4.2 Most important symptoms and effects, both acute and delayed Nausea, Vomiting, Headache, Diarrhoea, Epigastric pain., Circulatory collapse  4.3 Indication of any immediate medical attention and special treatment needed No data available 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  5.3 Advice for firefighters FireFighting if necessary.	A	According to European Directive 67/548/EEC as amended		
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	A	dvice for firefighters		
O.T.   I MI MICHINATION   INV VALA AVAIIADIC	Fı	urther information		
6 ACCIDENTAL RELEASE MEASURES				
6.1 Personal precautions, protective equipment and emergency procedures				



	Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist or gas. Ensure		
	adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.		
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		
	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. Normal measures for		
	preventive fire protection.		
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		
	Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after		
	handling the product.		
	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 particle		
	respirator type N99 (US) or type P2 (EN 143) 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	PHYSICAL AND CHEMICAL PROPERTIES		
9.1	Information on basic physical and chemical properties		



a)	Appearance	Form : Crystalline powder	
le.\	Odeur	Colour :White Like Amine	
b)	Odour Odour Threshold		
c)		No data available	
d)	pH	No data available	
e)	Melting range/freezing range	No data available	
f)	Initial boiling point and boiling range	454.1 ℃ at 760 mmHg	
g) h)	Flash point	228.4 ℃ 71.36 kJ/mol	
	Enthalpy of Vaporization Index of Refraction	No data available	
i) i)			
3/	Molar Refractivity	No data available	
k)	Vapour pressure	1.96E-08 mmHg at 25 °C  No data available	
l)	Density Oxidizing properties	No data available  No data available	
m)	Oxidizing properties		
n)	Water solubility	Freely soluble	
0)	Partition coefficient: noctanol/water	No data available	
p)	Polarizability	No data available	
d)	Decomposition temperature	No data available	
r)	Molar Volume	No data available	
s)	Surface Tension	No data available	
9.2	Other safety information		
	IUPAC Name	2-amino-2-methylpropan-1-ol	
	Molecular Formula	C <sub>11</sub> H <sub>19</sub> N <sub>5</sub> O <sub>3</sub>	
	Molecular Weight SMILES	269.3003	
		O=C2N(c1ncnc1C(=O)N2C)C.OCC(N)(C)C	
	InChI	InChI=1/C7H8N4O2.C4H11NO/c1-10-5-4(8-3-	
		9-5)6(12)11(2)7(10)13;1-4(2,5)3-6/h3H,1-	
		2H3(H,8,9);6H,3,5H2,1-2H3	
	EINECS	227-077-5	
10	STABILITY AND REACTIVITY		
10.1	Reactivity	no data available	
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	Other decomposition products - no data	
		available	
11	TOXICOLOGICAL INFORMATION		
11.1	Information on toxicological effects		
	Acute toxicity	LD50 Oral - rat - 225 mg/kg	
	,	LC50 Inhalation - rat - male and female - 4 h -	
		> 6,7 mg/l	
		LD50 Dermal - rat - male and female - > 2.000	
		mg/kg	
	Skin corrosion/irritation	Skin - rabbit - No skin irritation - OECD Test	
		Guideline 404	



	Serious eye damage/eye irritation		
	Guideline 405		
	Respiratory or skin sensitization no data available		
	Germ cell mutagenicity	Laboratory experiments have shown	
	,	mutagenic effects.	
	Carcinogenicity	This product is or contains a component that is	
	3 ,	not classifiable as to its carcinogenicity based on its IARC, ACGIH, NTP, or EPA	
		classification.	
		IARC: 3 - Group 3: Not classifiable as to its	
		carcinogenicity to humans	
	Reproductive toxicity	Overexposure may cause reproductive	
		disorder(s) based on tests with laboratory	
		animals.	
	Specific target organ toxicity - single	no data available	
	exposure		
	Specific target organ toxicity - repeated	no data available	
	exposure		
	Aspiration hazard	no data available	
	Potential health effects		
	Inhalation	May be harmful if inhaled. May cause	
		respiratory tract irritation.	
	Ingestion	Toxic if swallowed.	
	Skin	May be harmful if absorbed through skin. May	
	cause skin irritation.		
	Eyes	May cause eye irritation.	
	Signs and Symptoms of Exposure		
	Nausea, Vomiting, Headache, Diarrhoea, Epigastr	ic pain., Circulatory collapse	
	Additional Information	T	
	RTECS	XH3850000	
12	ECOLOGICAL INFORMATION	<u></u>	
12.1	Toxicity	no data available	
		us (Golden orfe) - 100 mg/l - 96 h	
	Toxicity to daphnia and EC50 - Daphnia magna (Water flea) - 178 mg/l - 48 h		
	other aquatic invertebrates		
40.0	Toxicity to algae EC50 - Desmodesmus subspicatus (green algae) - > 100 mg/l -72 h		
12.2			
100	Result: > 90 - 100 % - Readily biodegra		
12.3	Bioaccumulative potential no data available  Mobility in soil no data available		
12.4	Mobility in soil   no data available   Results of PBT and vPvB assessment   no data available		
12.5	Other adverse effects  no data available  no data available		
12.6	DISPOSAL CONSIDERATIONS		
13			
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				
	ADR/RID	IMDG	IATA		
	2811	2811	2811		
14.2	UN proper shipping name		·		
	ADR/RID	IMDG	IATA		
	TOXIC SOLID, ORGANIC,	TOXIC SOLID, ORGANIC,	Toxic solid, organic, n.o.s.		
	N.O.S.	N.O.S.	_		
14.3	Transport hazard class(es)				
	ADR/RID	IMDG	IATA		
	6.1	6.1	6.1		
14.4	Packaging group	<u>-</u>			
	ADR/RID	IMDG	IATA		
	III	III	III		
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				
		with the requirements of Regulat			
15.1		ntal regulations/legislation spe	ecific for the substance or		
	mixture				
	no data available				
15.2	Chemical Safety Assessment				
	no data available				
16	OTHER INFORMATION				
	Further information				
	The above information is believed to be correct but does not purport to be all inclusive and shat 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 presentings. It does				
	knowledge and is applicable to the product with regard to appropriate safety precautions. It not represent any guarantee of the properties of the product. Dr J Pharmachem (India) are				
	Affiliates shall not be held liable for any damage resulting from handling or from contact values above product. See www.jpharmachem.com and/or the reverse side of invoice or packing				
	additional terms and conditions		side of invoice of packing slip for		
	Month of revision :- October 2016  Month of revision :- October 2016				