



DR. J. PHARMACHEM (INDIA)

	P501	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Dispose of contents/ container to an approved waste disposal plant.
	Supplemental Hazard Statements	none
2.3	Other hazards	none
3	COMPOSITION/INFORMATION ON INGREDIENTS	
3.1	Substances	
	Synonyms	9,10-Benzophenanthrene
	Formula	C18H12
	Molecular Weight	228.29 g/mol
	Component	Concentration
	Triphenylene	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	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	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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	No data available
6	ACCIDENTAL RELEASE MEASURES	
6.1	Personal precautions, protective equipment and emergency procedures	



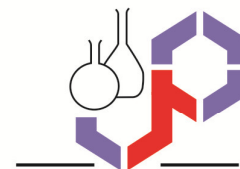
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	Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust.
6.2	Environmental precautions
	Prevent further leakage or spillage 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 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.
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 particle respirator type N100 (US) or type P3 (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 solid



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		Colour :White
b)	Odour	No data available
c)	Odour Threshold	No data available
d)	pH	No data available
e)	Melting range/freezing range	196 - 199 °C
f)	Initial boiling point and boiling range	438 °C - lit.
g)	Flash point	209.141 °C
h)	Enthalpy of Vaporization	65.327 kJ/mol
i)	Index of Refraction	1.771
j)	Molar Refractivity	79.78 cm ³
k)	Vapour pressure	No data available
l)	Density	1.19 g/cm ³
m)	Oxidizing properties	No data available
n)	Solubility	Insoluble in water
o)	Partition coefficient: noctanol/water	No data available
p)	Polarizability	No data available
q)	Decomposition temperature	No data available
r)	Molar Volume	191.781 cm ³
s)	Surface Tension	No data available
9.2	Other safety information	
	Molecular Formula	C18H12
	Molecular Weight	228.29 g/mol
	SMILES	c1ccc2c(c1)c3ccccc3c4c2cccc4
	InChI	InChI=1S/C18H12/c1-2-8-14-13(7-1)15-9-3-4-11-17(15)18-12-6-5-10-16(14)18/h1-12H
	EINECS	205-922-9
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	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	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
	Human lymphocyte DNA damage	
	Human	



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	lymphocyte Mutation in mammalian somatic cells.		
	Carcinogenicity	IARC: 3 - Group 3: Not classifiable as to its carcinogenicity to humans (Triphenylene)	
	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	May be 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	YK2925000	
12	ECOLOGICAL INFORMATION		
12.1	Toxicity	no data available	
12.2	Persistence and degradability	no data available	
12.3	Bioaccumulative potential		
	Bioaccumulation	- 96 d - 0,00005 mg/l Bioconcentration factor (BCF): 11.390	
12.4	Mobility in soil	no data available	
12.5	Results of PBT and vPvB assessment	no data available	
12.6	Other adverse effects	Very toxic to aquatic life with long lasting effects.	
13	DISPOSAL CONSIDERATIONS		
13.1	Waste treatment methods		
	Product		
	Offer surplus and non-recyclable solutions to a licensed disposal company. 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
	3077	3077	3077
14.2	UN proper shipping name		
	ADR/RID	IMDG	IATA
	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,	Environmentally hazardous substance, solid, n.o.s.



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	SOLID, N.O.S. (Triphenylene)	SOLID, N.O.S. (Triphenylene)	(Triphenylene)
14.3	Transport hazard class(es)		
	ADR/RID	IMDG	IATA
	9	9	9
14.4	Packaging group		
	ADR/RID	IMDG	IATA
	III	III	III
14.5	Environmental hazards		
	ADR/RID	IMDG Marine pollutant	IATA
	yes	yes	yes
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		
	Full text of H-Statements referred to under sections 2 and 3. H318 Causes serious eye damage. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects.		
	Full text of R-phrases referred to under sections 2 and 3 N Dangerous for the environment Xi Irritant R41 Risk of serious damage to eyes. R50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		
	Further information 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. Month of creation :- October 2013 Month of revision :- October 2016		