DR. J. PHARMACHEM PVT. LTD.
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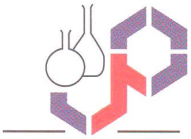
DR. J. PHARMACHEM PVT. LTD.

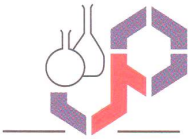
MATERIAL SAFETY DATA SHEET

1	**IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**	
1.1	**Product identifiers**	
	Chemical Name	DIETHYLENE GLYCOL DIBENZOATE : DIPROPYLENE GLYCOL DIBENZOATE - 80:20
	CAS NO.	27138-31-4 & 120-55-8
1.2	**Relevant identified uses of the substance or mixture and uses advised against**	
	1. It is used for a wide variety of applications, including latex adhesives, caulks, PS sealants, polyvinyl chloride, resilient flooring, paints and coatings (as coalescents), etc. 2. It has been widely used in adhesive industry.	
1.3	**Details of the supplier of the safety data sheet**	
	COMPANY	DR. J. PHARMACHEM PVT LTD 722/AB/15, "NIRMAL", Laxmi Park Colony, Navi Peth,
2	**HAZARDS IDENTIFICATION**	
2.1	**Classification of the substance or mixture**	
	Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP]	
	Dipropylene glycol dibenzoate Aquatic Chronic, category 3 May cause long lasting harmful effects to aquatic life. Diethylene glycol dibenzoate Not classified Not hazardous substance	
	Classification according to EU Directives 67/548/EEC or 1999/45/EC	
	For the full text of the R-phrases mentioned in this section	
2.2	**Label elements**	
	Labelling according Regulation (EC) No 1272/2008 [CLP]	
	Pictogram	No data available.
	Signal word	Warning.
	Hazard statement(s)	
	Precautionary statement(s)	
	Supplemental Hazard Statements	
	According to European Directive 67/548/EEC as amended	No data available.
	Hazard symbol(s)	No data available.
2.3	Other hazards	None.
3	**COMPOSITION/INFORMATION ON INGREDIENTS**	
3.1	**Substances**	
	Molecular Formula	-

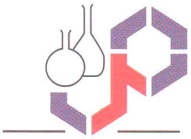


	Molecular Weight	320.0 g/mol.
	Component 1	Diethylene Glycol Dibenzoate
	Concentration 1	80 %
	Component 2	Dipropylene Glycol Dibenzoate
	Concentration 2	20 %
	CAS-No.	27138-31-4, 120-55-8
	EC-No.	248-258-5 & 204-407-6
4	**FIRST AID MEASURES**	
4.1	**Description of first aid measures**	
	General advice	
	This material is not expected to cause significant adverse human health effects when used in accordance with good industrial hygiene and safety practi	
	If inhaled	If inhaled, remove to fresh air. If breathing is difficult, give oxygen. Seek medical attention if symptoms occur
	In case of skin contact	Flush the area with plenty of water. Remove material from clothing. Wash clothing before reuse.
	In case of eye contact	Flush with plenty of water. Seek medical attention if irritation persists.
	If swallowed	Do Not Induce Vomiting Unless Directed To Do So By Medical Personnel. Get Medical Attention. Never Give Anything By Mouth To An Unconscious Person.
4.2	**Most important symptoms and effects, both acute and delayed**	
	High airborne concentrations of vapours resulting from heating, misting or spraying may cause irritation of the respiratory tract and mucous membranes.	
4.3	**Indication of any immediate medical attention and special treatment needed**	
	None known	
5	**FIREFIGHTING MEASURES**	
5.1	**Extinguishing media**	
	Suitable extinguishing media	dry chemicals, CO2, water spray or foam.
5.2	**Special hazards arising from the substance or mixture**	Products of combustion are carbon oxides (CO, CO2).
5.3	**Advice for firefighters**	Firefighters and others who may be exposed to products of combustion should wear full firefighting turn out gear and self-contained breathing apparatus. Firefighting equipment should be

		thoroughly decontaminated after use.
5.4	**Further information**	No data available.
6	**ACCIDENTAL RELEASE MEASURES**	
6.1	**Personal precautions protective equipment and emergency procedures**	
	No data available.	
6.2	**Environmental precautions**	
	Do not allow to enter sewers / surface or ground water. In case of spillage to water course or public sewers inform responsible authorities.	
6.3	**Methods and materials for containment and cleaning up**	
	Small Spill - Absorb with an inert material and place in an appropriate waste disposal container. Large Spill - Stop the leak if possible. Remove all ignition sources. Ventilate the area involved. Absorb with an inert material and put the spilled material in an appropriate waste disposal container.	
6.4	**Reference to other sections**	
	See sections 8 and 13 for further advice.	
7	**HANDLING AND STORAGE**	
7.1	**Precautions for safe handling**	
	Handle in accordance with good industrial hygiene and safety practices. These practices include avoiding unnecessary exposure and removal of material from eyes, skin, and clothing. Keep away from sources of ignition.	
7.2	**Information about protection against explosions and fires**	
	No data available.	
7.3	**Conditions for safe storage including any incompatibilities**	
	Store in well ventilated area away from sources of ignition; Keep container tightly closed. Storage Temperatures: 38 °F to 150 °F; and shelf life: 2 years	
7.4	**Specific end use(s)**	
	Plasticizer products will soften plastic materials and as a result they should not be transported in piping systems constructed from these materials.	
8	**EXPOSURE CONTROLS/PERSONAL PROTECTION**	
8.1	**Control parameters**	
	Components with workplace control parameter	
8.2	**Exposure control**	
	Ventilation must be adequate to maintain the ambient workplace aosphere.	
	Appropriate engineering controls	
	Always provide effective general and, when necessary, local exhaust ventilation to draw spray, aerosol, fume, mist and vapor away from workers to prevent routine inhalation	

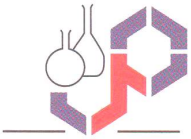


	Personal protective equipment	
	Do not eat, drink, or smoke whilst working. Keep away from foodstuffs, beverages and feed. Remove all contaminated clothing. Wash hands before breaks and at the end of work.	
	Eye/face protection	
	Safety glasses should be worn when handling this substance.	
	Hands protection	
	It is a good industrial hygiene practice to minimize skin contact.	
	Skin protection	
	It is a good industrial hygiene practice to minimize skin contact.	
	Control of environmental exposure	
	Avoid release to the environment.	
9	**PHYSICAL AND CHEMICAL PROPERTIES**	
	Information on basic physical and chemical properties	
	a)Appearance	Transparent oily liquid
	b)Odour	Mild ester-like
	c)Odour Threshold	No data available.
	d)pH (% solution in water)	
	pH	No data available.
	e)Melting point/freezing point	No data available.
	f)Initial boiling point and boiling range	235 - 238 °C
	g)Flash point	>149°C (TCC
	h)Evaporation rate	Lower than 1, based on data for DPGDB
	i)Flammability (solid or gas)	Not flammable
	j)Upper/lower flammability or explosive limits	No data available.
	k)Vapour pressure	No data available.
	l)Vapour density	No data available.
	m)Relative density	No data available.
	n)Water solubility	Slightly soluble
	o)Partition coefficient: n-octanol/water	No data available.
	p)Autoignition temperature	Not < 400ºC (752°F) at 760 mm Hg (DPGDB)
	q)Decomposition temperature	No data available.
	r)Viscosity	80 cps @ 25°C, Brookfield.

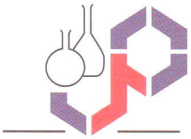


	s)Explosive properties	Not considered to be explosive.
	t)Oxidizing properties	Not considered to be explosive.
9.2	**Other safety information**	
	Bulk Density	No data available.
10	**STABILITY AND REACTIVITY**	
10.1	Reactivity	Not a reactive substance and no reactive hazards a
10.2	Chemical stability	The product is stable.
10.3	Possibility of hazardous reactions	No hazardous reactions expected under normal conditions of use. Can decompose at elevated temperatures.
10.4	Conditions to avoid	Excessive heat and ignition sources.
10.5	Incompatible materials	Slightly reactive to reactive with oxidizing agents, acids, and alkalis.
10.6	Hazardous decomposition products	Carbon dioxide, carbon monoxide and hydrocarbons.
11	**TOXICOLOGICAL INFORMATION**	
11.1	**Information on toxicological effects**	
	Acute toxicity	DPGDB: The acute median lethal oral doses (LD50) to male and female rats were calculated to be: 5072 mg/kg bodyweight (males), 3295 mg/kg bodyweight (females), and 3914 mg/kg bodyweight (both sexes). DEGDB: The acute median lethal oral doses (LD50) to male and female rats were calculated to be: 4843 mg/kg bodyweight (males), 3535 mg/kg bodyweight (females), and 4190 mg/kg bodyweight (both sexes).
	Acute oral toxicity	No data available.
	Acute Inhalation toxicity	No data available.
	Acute dermal toxicity	No data available.
	Acute Irritation / corrosion toxicity	No data available.
	Skin corrosion/irritation	DPGDB and DEGDB are not irritating to the skin and are not considered to be a primary skin irritant.
	Serious eye damage/eye irritation	DPGDB and DEGDB are not irritants to the eye.
	Respiratory or skin sensitization	DPGDB and DEGDB did not produce evidence of skin sensitization (delayed contact hypersensitivity) in any of the animals tested.
	Germ cell mutagenicity	DPGDB showed no evidence of mutagenic activity in this bacterial system. DEGDB did not

		demonstrate mutagenic potential in this in vitro gene mutation assay.
	Carcinogenicity	Not classified (No data available).
	IARC	No data available.
	Reproductive toxicity	A dietary concentration of dipropylene glycol dibenzoate (DPGDB) at 10000 ppm should be considered as the NoObserved-Effect-Level (NOEL) for P (F0) and F1 parent animals. The No-Observed-Adverse-Effect-Level (NOAEL) for survival and growth of the offspring is considered to be 10000 ppm.
	Specific target organ toxicity - single exposure	No data available.
	Specific target organ toxicity - repeated exposure	The NOAEL was 1000 mg/kg bw/day for both DPGDB and DEGDB.
	Signs and symptoms of exposure	No data available.
	Route of exposure	No data available.
	Aspiration hazard	No data available.
	Potential health effects	No data available.
	Inhalation	No data available.
	Ingestion	No data available.
	Skin	No data available.
	Eyes	No data available.
	Additional Information	
	RTECS	No data available.
12	**ECOLOGICAL INFORMATION**	
12.1	Toxicity	DPGDB: The EL50 (Area under the curve 72 h) was 1.1 mg/L and the EL50 (Growth rate 0-72 h was 4.9 mg/L while the EL50 (Area under the curve 96 h) was 0.95 mg/L and the EL50 (Growth rate 0-96 h) was 3.6 mg/L.
12.2	**Persistence and degradability**	No data available.
	Biodegradation	DPGDB and DEGDB are readily biodegradable and therefore is not Persistence.
12.3	Bio accumulative potential	QSAR data suggests that DPGDB and DEGDB are not bio-accumulative.
12.4	Mobility in soil	No specific information available.
12.5	Results of PBT and vPvB assessment	DPGDB and DEGDB are not PBT or vPvB based upon experimental data.



12.6	Other adverse effects	No information available.	
13	**DISPOSAL CONSIDERATIONS**		
13.1	**Waste treatment methods**		
	Product		
	Recycle to process, if possible. Consult your local or regional authorities for disposal options.		
	Contaminated packaging		
	No data available.		
14	**TRANSPORT INFORMATION**		
14.1	**UN number**		
	ADR/RID	IMDG	IATA
	-	-	-
14.2	**UN proper shipping name**		
	ADR/RID	IMDG	IATA
	-	-	-
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
	-	-	-
14.6	Special precautions for user	No data available.	
15	**REGULATORY INFORMATION**		
	No data available.	No data Available.	
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
	The information contained herein is based on the present state of knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product. Month of Creation :- April 2016 Month of Revision :- April 2019