

MATERIAL SAFETY DATA SHEET

Diphenylamine

SECTIO	N 1: Identification of the substa	ance	/mixture and of the company/undertaking	
1.1	1 Product identifiers			
	Product name	:	Diphenylamine	
	Brand	:	LABORT	
	CAS-No.	:	122-39-4	
1.2	Relevant identified uses of the substance or mixture and uses advised against		ubstance or mixture and uses advised against	
	Identified uses	:	Laboratory chemicals, Manufacture of substances	
1.3	Details of the supplier of the	Details of the supplier of the safety data sheet		
	LABORT FINE CHEM PVT LTD. 703-704 ICON BUSINESS CENTRE, OPP. CENTRAL MALL, NR. VALENTINE CINEMA, DUMAS ROSURAT - 395007, (GUJARAT), INDIA. PH: 0091-261-2725761; 2725388			
	FAX: 0091-261-2725388 E MAIL: info@laboratorychemical.net WEBSITE: www.laboratorychemical.net			
1.4	Emergency telephone numb	er		
	Emergency Phone #	:	091-261-2725388	
SECTIO	N 2: Hazards identification			
2.1	Classification of the substar	nce c	or mixture	
	Classification according to Regulation (EC) No 1272/2008 Acute toxicity, Oral (Category 3), H301 Acute toxicity, Inhalation (Category 3), H331 Acute toxicity, Dermal (Category 3), H311 Specific target organ toxicity - repeated exposure (Category 2), H373 Short-term (acute) aquatic hazard (Category 1), H400 Long-term (chronic) aquatic hazard (Category 1), H410		301 73), H331 9, H311 ated exposure (Category 2), H373 (Category 1), H400	
2.2	Label elements	Label elements		
	Labelling according Regulation (EC) No 1272/2008			
	Pictogram			
	Signal word		Danger	
	Hazard statement(s) H301 + H311 + H331 Toxic if swallowed, in contact with skin or if inhaled.			

	H373 May cause damage to organs through prolonged or repeated			
ì	exposure. H410 Very toxic to aquatic life with long lasting effects.			
	Precautionary statement(s) P273 Avoid release to the environment. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301 + P310 + P330 IF SWALLOWED: Immediately call a POISON CENTER/doctor. Rinse mouth. P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/doctor if you feel unwell. P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor. P314 Get medical advice/ attention if you feel unwell.			
	Supplemental Hazard Statements: none			
2.3	Other hazards			
	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.			
SECTION	N 3: Composition/information o	n in	gredients	
3.1	3.1 Substances			
	Synonyms	:	Diphenylamine	
	Formula	:	C12H11N	
	Molecular weight	:	169,22 g/mol	
	CAS-No.	:	122-39-4	
	Component	Cla	assification	Concentration
	Diphenylamine	Ac Ch H3	eute Tox. 3; STOT RE 2; quatic Acute 1; Aquatic nronic 1; H301, H331, B11, H373, H400, H410 Factor - Aquatic Acute:	<= 100 %
SECTION	N 4: First aid measures			
4.1	Description of first aid meas	ures	3	
	General advice Consult a physician. Show this material 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 polyethylene glycol and afterwards with plenty of water. Take victim immediately to hospital. Take off all contaminated clothing immediately. Wash of In case of eye contact			
4.2	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. Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labelling (see section			
4.3	2.2) and/or in section 11 Indication of any immediate medical attention and special treatment needed No data available			

SECTIO	N 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, Nitrogen oxides (NOx)		
5.3	Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.		
5.4	Further information No data available		
SECTIO	N 6: Accidental release measures		
6.1	Personal precautions, protective equipment and emergency procedures Wear respiratory protection. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.		
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.		
SECTIO	N 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. For precautions see section 2.2.		
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 use(s) Apart from the uses mentioned in section 1.2 no other specific uses are stipulated		
SECTIO	N 8: Exposure controls/personal protection		
8.1	Control parameters		
	Components with workplace control parameters		
8.2	Exposure control		
	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 Tightly fitting safety goggles. Faceshield (8-inch minimum). 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 Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail

sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario

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 fullface 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).

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.

SECTION 9: Physical and chemical properties

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9.1	Information on basic physical and chemical properties		
	Appearance Form	Form: crystalline Color: White	
	Odor	No data available	
	Odour Threshold	No data available	
	рН	No data available	
	Melting point/freezing point	Melting point/range: 50 - 53 °C - lit.	
	Initial boiling point and boiling range	302 °C - lit.	
	Flash point	153 °C - closed cup	
	Evaporation rate	No data available	
	Flammability (solid, gas)	No data available	

	Upper/lower flammability or explosive limits	No data available	
	Vapour pressure	1 hPa at 108 °C	
	Vapour density	No data available	
	Relative density	1,160 g/cm3	
	Water solubility	insoluble	
	Partition coefficient:	log Pow: 3,5	
	Auto-ignition temperature	No data available	
	Decomposition temperature	No data available	
	Viscosity	No data available	
	Explosive properties	No data available	
	Oxidizing properties	No data available	
9.2	Other safety information		
	Bulk density	0,61 g/l	
	Surface tension	39,3 mN/m at 60 °C	
SECTION	1 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		
10.5	No data available Incompatible materials		
10.6	Strong oxidizing agents, Strong acids Hazardous decomposition products Hazardous decomposition products formed under fire conditions Carbon oxides, Nitrogen oxides (NOx) Other decomposition products - No data available In the event of fire: see section 5		
SECTION	11: Toxicological information		
	Information on toxicological effects Acute toxicity LD50 Oral - Rat - 1.120 mg/kg Remarks: Behavioral:Somnolence (general depressed activity). Respiratory disorder Blood:Methemoglobinemia-Carboxyhemoglobin.		
11.1	Skin corrosion/irritation No data available Serious eye damage/eye irritation		
	No data available		
	Respiratory or skin sensitization	n	

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

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

No data available

Additional Information

RTECS: JJ7800000

Absorption into the body leads to the formation of methemoglobin which in sufficient concentration causes cyanosis. Onset may be delayed 2 to 4 hours or longer., Nausea, Vomiting, Liver injury may occur., Kidney injury may occur.

To the best of our knowledge, the chemical, physical, and toxicological properties have not

been thoroughly investigated.

Waste treatment methods

SECTION 12: Ecological information			
12.1	Toxicity		
	Toxicity to fish	LC50 - Pimephales promelas (fathead minnow) - 3,79 mg/l - 96,0 h	
	Toxicity to daphnia and other aquatic invertebrates	EC50 - Daphnia magna (Water flea) - 0,27 - 0,36 mg/l - 48 h	
	Toxicity to algae	EC50 - Desmodesmus subspicatus (green algae) - 0,048 mg/l - 72 h IC50 - Desmodesmus subspicatus (green algae) - 1,5 mg/l - 72 h	
12.2	Persistence and degradability		
	Biodegradability	Result: - According to the results of tests of biodegradability this product is not readily biodegradable. No data available	
12.3	Bioaccumulative potential Cyprinus carpio (Carp)(Diphenylamine) Bioconcentration factor (BCF): 253		
12.4	Mobility in soil No data available		
12.5	Results of PBT and vPvB assessment This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.		
12.6	Other adverse effects Very toxic to aquatic life with long lasting effects. No data available		
SECTIO	N 13: Disposal considerations		

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13.1

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.

SECTION 44. Transport information

SECTIO	SECTION 14: Transport information				
14.1	UN number				
	ADR/RID: 3077	IMDG: 3077	IATA: 3077		
14.2	UN proper shipping name				
	ADR/RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diphenylamine) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Diphenylamine) IATA: Environmentally hazardous substance, solid, n.o.s. (Diphenylamine)				
14.3	Transport hazard class(es)				
	ADR/RID: 9	IMDG: 9	IATA: 9		
14.4	Packaging group				
	ADR/RID: III	IMDG: III	IATA: III		
14.5	Environmental hazards				
	ADR/RID: yes	IMDG Marine pollutant: yes	IATA: yes		
14.6	Special precautions for user Further information EHS-Mark required (ADR 2.2.9.1.10, IMDG code 2.10.3) for single packagings and combination packagings containing inner packagings with Dangerous Goods > 5L for liquids				

or > 5kg for solids. **SECTION 15: Regulatory information**

Safety, health and environmental regulations/legislation specific for the 15.1 substance or mixture

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical safety assessment 15.2

For this product a chemical safety assessment was not carried out

SECTION 16: Other information

Further information

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