

MSDS 46101 Date of Issue/re-issue: **19.12.2017**

User declaration:- I have read and understood this Safety Data Sheet

Name:- _____ Signature _____ Date _____

1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Company Name



ECP LTD

Address: 39 Woodside Ave, Northcote, Auckland , New Zealand

Emergency Tel: NZ 0800154666 Tel +64 9 480 4386 FAX +64 9 480 4385

Product	Diphenylamine 99%+ AR			Code	41601
CAS#	HSNO#	UN #	DG Class/es	Packing group #	
122-39-4	HSR002712	2811	6.1	III	

Recommended use: Laboratory Investigations

2. Hazards Identification

2.1 GHS Classification

Acute toxicity, Oral (Category C)

Acute toxicity, Inhalation (Category C)

Acute toxicity, Dermal (Category C)

Specific Target Organ Toxicity (Category B)

Aquatic toxicity (Acute or Chronic) (Category A)

2.2 GHS Label elements, including precautionary statements



Pictogram

Signal word **Danger**

Hazard statement(s)

H301 Toxic if swallowed.

H311 Toxic in contact with skin.

H331 Toxic if inhaled.

H373 May cause damage to organs through prolonged or repeated exposure.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

Prevention

P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P271 Use only outdoors or in a well-ventilated area.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing.

Response

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.

P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P314 Get medical advice/ attention if you feel unwell.

P322 Specific measures (see supplemental first aid instructions on this label).

P330 Rinse mouth.

P361 Remove/Take off immediately all contaminated clothing.

P363 Wash contaminated clothing before reuse.

P391 Collect spillage.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards - none

Hazard Classification

HAZARDOUS SUBSTANCE.
DANGEROUS GOODS.

Hazard classification according to the criteria of NOHSC.
Dangerous goods classification according to the Australia Dangerous Goods Code.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	Name	CAS	Proportion
	Diphenylamine	122-39-4	99-100 %

4. FIRST AID MEASURES

Inhalation	Remove source of contamination or victim to fresh air. Ensure airways are clear and have qualified person give oxygen through a facemask if breathing is difficult. Seek immediate medical attention.
Ingestion	Do NOT induce vomiting. Contact a Poisons Information Centre (Phone eg Australia 131 126) or a doctor at once.
Skin	Wash affected area thoroughly with soap and water. Remove contaminated clothing and wash before reuse or discard. Seek medical attention.
Eye	If in eyes wash out immediately with water. Take care not to rinse contaminated water into the non-affected eye. Seek medical attention.
First Aid Facilities	Eye wash and normal wash room facilities.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	Water spray, foam, CO2, dry chemical. Use water spray to keep fire-exposed containers cool.
Specific Hazards	May emit toxic fumes under fire conditions.
Hazchem Code	2X
Precautions in connection with Fire	Fire-fighters should wear full protective clothing and self contained breathing apparatus (SCBA) operated in positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Emergency Procedures	Remove all sources of heat. Increase ventilation. Wear sufficient respiratory protection and full protective clothing to minimise skin and eye exposure. Sweep up material avoiding dust generation or collect mechanically. Seal all wastes in vapour tight labelled plastic containers for eventual disposal. Prevent entry into drains, waterways and soils. If large quantities of this material enter the waterways contact the Environmental Protection Authority, or your local Waste Management Authority.
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7. HANDLING AND STORAGE

Precautions for Safe Handling	Repeated or prolonged contact with this material should be avoided in order to lessen the possibility of disorders. It is essential that all who come into contact with this material, maintain high standards of personal hygiene i.e. washing hands prior to eating, drinking, smoking or going to the toilet.
Conditions for Safe Storage	Stored in tightly closed containers in a cool (below 30°C), dry, well-ventilated place. Store away from foodstuffs and incompatible materials. Avoid any dust build-up by frequent cleaning and suitable construction of storage area. Keep storage separated from work areas. Inspect periodically for deficiencies such as damage or leaks.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

National Exposure Standards	Name	STEL (mgm3)	STEL (ppm)	TWA (mgm3)	TWA (ppm)	FootNote
	Diphenylamine			10		
Other Exposure Information	The exposure standards above have been established for Diphenylamine by the Australian National Occupational Health & Safety Commission (NOHSC) or the Occupational Safety and Health Service (OSH) of the New Zealand Department of Labour.					
Engineering Controls	Natural ventilation should be sufficient, however where dust is generated the use of a local exhaust ventilation system (drawing dust away from workers breathing zone) is recommended.					

Respiratory Protection	Where ventilation is inadequate and the use of an approved respirator with filter complying with AS/NZS 1715 and AS/NZS 1716 is recommended however final choice of appropriate breathing protection is dependant upon actual airborne concentrations and the type of breathing protection required will vary according to individual circumstances. Expert advice may be required to make this decision. Reference should be made to Australian Standards AS/NZS 1715- Selection, Use and Maintenance of Respiratory Protective Devices; and AS/NZS 1716- Respiratory Protective Devices.
Eye Protection	Safety glasses with side shields or goggles should be worn as described in Australian Standard AS/NZS 1337 - Eye Protectors for Industrial Applications.
Hand Protection	Impervious gloves recommended. Final choice of appropriate glove type will vary according to individual circumstances, including methods of handling or engineering controls as determined by appropriate risk assessments. Refer to AS/NZS 2161 Occupational protective gloves- Selection, use and maintenance.
Body Protection	Suitable protective clothing should be worn e.g. cotton overalls buttoned at neck and wrist.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White to light yellow-brown solid.
Odour	Floral like
Melting Point	52-54°C
Boiling Point	302°C
Solubility in Water	Insoluble
Solubility in Organic Solvents	Freely soluble in benzene, ether, glacial acetic acid and carbon disulfide; very soluble in ethyl alcohol, propyl alcohol, ethyl acetate, carbon tetrachloride, acetone and pyridine.
Specific Gravity	1.159 @ 20°C (water = 1)
pH Value	Not available
Vapour Pressure	1mmHg @ 108°C
Flash Point	152°C
Flammability	This product will burn if exposed to fire. May form ignitable dust/air mixtures.
Auto-Ignition Temperature	633°C
Molecular Weight	169.23

10. STABILITY AND REACTIVITY

Chemical Stability	Stable.
Conditions to Avoid	Incompatible materials.
Incompatible Materials	Strong oxidising agents, strong acid, hexachloromelamine.
Hazardous Decomposition Products	Nitrogen oxides and oxides of carbon.
Hazardous Reactions	HEXACHLOROMELAMINE - may react rapidly with or without flame. Explosion may occur. TRICHLOROMELAMINE - reaction may produce flame and fume. STRONG ACIDS - may react vigorously; form salts.
Hazardous Polymerization	Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology Information	LD50/Oral/Rat = 1120 mg/kg
Inhalation	Toxic by inhalation. May cause irritation to the mucous membrane and upper airways, especially if the material is heated or mists are generated. Inhalation of high concentrations may lead to headache, drowsiness, dizziness, nausea, vomiting and difficulty in breathing.
Ingestion	Toxic if swallowed. Ingestion results in a gastro-intestinal type of poisoning resembling food poisoning in its symptoms. Symptoms may include nausea, vomiting, diarrhoea, muscle cramps, abdominal pain and discomfort.
Skin	Toxic if absorbed through the skin. May cause irritation and allergenic response.
Eye	May cause eye irritation, resulting in redness, stinging and tearing.
Chronic Effects	Toxic substance: Danger of cumulative effects.

12. ECOLOGICAL INFORMATION

Persistence / Degradability	Not available
Mobility	Not available
Environment Protection	Do not allow product to enter drains, waterways or sewers. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Acute Toxicity - Other	Invertebrate EC50(5,15,30 min, Photobacterium phosphoreum) = 4.77ppm Microtox test

Organisms

13. DISPOSAL CONSIDERATIONS

Disposal Considerations

Dispose of according to relevant local, state and federal government regulations.

14. TRANSPORT INFORMATION

Transport Information

Australia:

This material is classified as a Class 6.1 Toxic Dangerous Good according to the Australian Code for the Transport of Dangerous Goods. Class 6.1 Toxic substances are incompatible in a placard load with any of the following:

- Class 1, Explosives.
- Class 3, if the Class 3 dangerous goods are nitromethane.
- Class 5.1, if the Class 6 dangerous goods are fire risk substances.
- Class 5.2, if the Class 6 dangerous goods are fire risk substances.
- Class 8, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids;

And are incompatible with food and food packaging in any quantity.

New Zealand:

This material is classified as a Class 6.1 - Toxic substance according to NZS 5433:1999 Transport of Dangerous Goods on Land.

Must not be loaded in the same freight container or on the same vehicle with:

- Class 1, Explosives

And are incompatible with food and food packaging in any quantity.

Note 1: Cyanides (Class 6.1) must not be loaded in the same freight container or on the same vehicle with acids (Class 8).

Must not be loaded with in the same freight container; and on the same vehicle must be separated horizontally by at least 3 metres unless all but one are packed in separate freight containers with:

- Class 5.1, Oxidizing substances
- Class 5.2, Organic peroxides

Goods of packing group II or III may be loaded in the same freight container or on the same vehicle if transported in segregation devices with:

- Class 5.1, Oxidizing substances
- Class 5.2, Organic peroxides

And are incompatible with food and food packaging in any quantity.

U.N. Number

2811

Proper Shipping Name

TOXIC SOLID, ORGANIC, N.O.S.

DG Class

6.1

Hazchem Code

2X

Packaging Method

3.8.6.1

Packing Group

III

EPG Number	6B5
IERG Number	36
IMDG Marine Pollutant (MP)	This material is a marine pollutant according to IMDG Code.

15. REGULATORY INFORMATION

Regulatory Information	Australia: Classified as hazardous according to criteria of Australian National Occupational Health & Safety Commission (NOHSC). Poison Schedule (Australia): Not Scheduled New Zealand: Classified as Hazardous according to the Hazardous Substances (Classification) Regulations 2001. Poison Schedule (New Zealand): Not Scheduled
Poisons Schedule	Not Scheduled Not Scheduled ; New Zealand:Not Scheduled
Hazard Category	Toxic,Dangerous for the environment

16. Disclaimer

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.

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