

Material Safety Data Sheet

IR ALL SEASON

Version: 1.0

Revision Date: 10/16/2014

Print Date: 04/02/2015

WHMIS Classification : : Not Rated

Potential Health Effects

Symptoms of Overexposure : Sensitisation

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components

Component / CAS-No.	Weight percent
diphenylamine 122-39-4	>= 0.1 - < 1 %

SECTION 4. FIRST AID MEASURES

First aid procedures

- Inhalation : Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If not breathing, give artificial respiration.
Call a physician or poison control centre immediately.
If breathing is difficult, give oxygen.
Keep respiratory tract clear.
- Skin contact : Wash off with soap and plenty of water.
If symptoms persist, call a physician.
Take off contaminated clothing and wash before reuse.
- Eye contact : If eye irritation persists, consult a specialist.
- Ingestion : Rinse mouth with water.
If victim is fully conscious, give a cupful of water.
DO NOT induce vomiting unless directed to do so by a physician or poison control center.
Never give anything by mouth to an unconscious person.
Do not give milk or alcoholic beverages.
Obtain medical attention.

Notes to physician

- Symptoms : Sensitisation
- Treatment : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5. FIREFIGHTING MEASURES

Flammable properties

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Fire fighting

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Protective equipment and precautions for firefighters

Specific hazards during firefighting : Burning produces irritant fumes.
Burning produces noxious and toxic fumes.

Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Environmental precautions : No special environmental precautions required.

Methods for containment / Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).
Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Handling

Handling procedures : For personal protection see section 8.
No special handling advice required.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Storage

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.

Advice on common storage : No special restrictions on storage with other products.

Other data : No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Components with workplace control parameters

Components / CAS-No.	Value / Basis / Update	Control parameters	Further information
diphenylamine 122-39-4	TWA CA AB OEL	10 mg/m ³	

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	2007-01-01		
	TWA CA BC OEL 2006-11-29	10 mg/m3	
	TWAEV CA QC OEL 2006-12-29	10 mg/m3	

Engineering measures

Personal protective equipment

Eye protection : Safety glasses

Hand protection : Solvent-resistant gloves (butyl-rubber)

Skin and body protection : Protective suit

Respiratory protection : No personal respiratory protective equipment normally required.

Hygiene measures : General industrial hygiene practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Form : liquid

Colour : straw

Odour : mild
ester-like

Safety data

pour point : -40 °F (-40 °C)

Boiling point/boiling range : Note: No data available

Vapour pressure : No data available

Specific Gravity : 0.92 at

Water solubility : Note: negligible

Relative vapour density : Note: No data available

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SECTION 10. STABILITY AND REACTIVITY

- Conditions to avoid : Remarks: Contamination
- Materials to avoid : Remarks: Strong oxidizing agents
- Hazardous decomposition products : Note: No hazardous decomposition products are known.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute oral toxicity
diphenylamine : LD50: 2.72 mg/kg
Species: rat

Acute dermal toxicity
diphenylamine : LD50: > 2,000 mg/kg
Species: rabbit

Skin irritation
diphenylamine : Species: rabbit
Result: Mild skin irritation

Eye irritation
diphenylamine : Species: rabbit
Result: Mild eye irritation

Sensitisation : Remarks: May cause sensitisation by skin contact.

Repeated dose toxicity
diphenylamine : Species: mouse, male
Application Route: Oral
Exposure time: (90 d)
NOEL: 1.7 mg/kg
Lowest observable effect level: 93.8 mg/kg

Species: mouse, female
Application Route: Oral
Exposure time: (90 d)
NOEL: 2.1 mg/kg
Lowest observable effect level: 107 mg/kg

CMR effects
diphenylamine : Carcinogenicity: Not classifiable as a human carcinogen.
Mutagenicity: Animal testing did not show any mutagenic effects.
Teratogenicity: No toxicity to reproduction

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Reproductive toxicity: No toxicity to reproduction

Further information : No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity effects

Toxicity to fish
diphenylamine : LC50: 2.2 mg/l
Exposure time: 96 h

Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates
diphenylamine : EC50: 1.2 mg/l
Exposure time: 48 h
Species: Daphnia magna (Water flea)

Elimination information (persistence and degradability)

Bioaccumulation : Remarks:
No data available

Mobility : Remarks:
No data available

Biodegradability : Remarks:
No data available

Further information on ecology

Ecotoxicology Assessment

Results of PBT assessment
No data available

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
This product has no known ecotoxicological effects.

SECTION 13. DISPOSAL CONSIDERATIONS

Further information : Dispose of wastes in an approved waste disposal facility.
The product should not be allowed to enter drains, water courses or the soil.
In accordance with local and national regulations.
Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.

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Contaminated packaging : Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

DOT

Not dangerous goods

TDG

Not dangerous goods

IATA

Not dangerous goods

IMDG

Not dangerous goods

RID

Not dangerous goods

Not classified as dangerous in the meaning of transport regulations.

SECTION 15. REGULATORY INFORMATION

WHMIS Classification :

NPRI Components	:	diphenylamine	122-39-4
		aniline	62-53-3
		Xylene	1330-20-7
		naphthalene	91-20-3

California Prop. 65 Components : WARNING! This product contains a chemical known to the State of California to cause cancer.

aniline	62-53-3 aniline
1-naphthylamine	134-32-7 1-naphthylamine
2-naphthylamine	91-59-8 2-naphthylamine
Ethylbenzene	100-41-4 ethylbenzene

The components of this product are reported in the following inventories:
US.TSCA On TSCA Inventory

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DSL	All components of this product are on the Canadian DSL.
AICS	On the inventory, or in compliance with the inventory
NZIoC	On the inventory, or in compliance with the inventory
ENCS	On the inventory, or in compliance with the inventory
KECI	On the inventory, or in compliance with the inventory
PICCS	On the inventory, or in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory
TSCA list Information	<u>US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)</u> <u>ZUS T12B</u> <u>Not relevant</u>

SECTION 16. OTHER INFORMATION

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.