

MATERIAL SAFETY DATA SHEET	Date : 11/2/2006
	Revision nr : 2
DVB 63%	Supersedes : 10/03/06

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

Commercial Product Name: DVB 63

Use of the Substance/Preparation: Intermediate, functional monomer

Company: Deltech Corporation
11911 Scenic Highway
Baton Rouge, LA 70807
USA

Emergency telephone number: While in Europe...+32 3 575 55 55
While in USA... +Chemtrec 1-800-424-9300 or
24 Hour Emergency Phone 225-772-0150

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature of the preparation

Substance name	Value(s)	CAS No / EC No / EC Index	Symbol(s)	R-Phrase(s)
Divinylbenzene :	62 - 64 %	1321-74-0 / 215-325-5 / -----	Xi; N	36/37/38; 51-53
Ethylstyrene :	32 - 37 %	28106-30-1 / 248-846-1 / -----	-	-
Diethylbenzene :	0.5 - 1.5 %	25340-17-4 / 246-874-9 / -----	Xi	36/37/38
Naphthalene:	< 0.1 %	91-20-3 / 202-049-5 / 601-052-00-2	Carc. Cat 3, Xn; N	40 22; 50/53
P-tert-Butylcatechol:	0.1 - 0.15 %	98-29-3 / 202-653-9 / -----	C; Xn; N	34; 20/21, 43; 51-53

NOTE: Please refer to section 15 for final classification of above product based on toxicity testing of the mixture.

3. HAZARDS IDENTIFICATION

Irritating to eyes, respiratory system and skin.

Dangerous for the environment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Inhalation: Keep at rest.
Oxygen or artificial respiration if needed.
Move to fresh air.
Call a physician immediately.

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Skin contact: Take off contaminated clothing and shoes immediately.
Wash off with soap and plenty of water.
Obtain medical attention.

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

Ingestion: Do not induce vomiting.
Call a physician immediately.

General advice: Never give anything by mouth to an unconscious person

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Use dry chemical, CO₂, water spray or alcohol resistant foam.

Specific hazards: Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Cool containers / tanks with spray water.
Burning produces obnoxious and toxic fumes. CO, COx.
The pressure in sealed containers can increase under the influence of heat.
Vapours are heavier than air and may spread along floors.

Special protective equipment for firefighters: Wear personal protective equipment.
Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear personal protective equipment.
Remove all sources of ignition.

Environmental precautions: Do not flush into surface water or sanitary sewer system.

Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Take up mechanically and collect in suitable container for disposal.
Flush with water.

7. HANDLING AND STORAGE

Storage: Recommend keeping at temperatures below 27°C.
Keep away from direct sunlight.
Keep containers tightly closed in a cool, well-ventilated place.

Handling: Take precautionary measures against static discharges.
Do not breathe vapours or spray mist.
Avoid contact with skin and eyes.

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Specific use(s): No information available

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients with occupational exposure limits to be monitored

EC

Name

Naphthalene

Value

10 ml/m³

50 mg/m³

carcinogenic

c 3: owing possible carcinogenic effects for man.

Personal protective equipment

Respiratory protection: In case of insufficient ventilation wear suitable respiratory equipment. (Filter type P1/A)

Hand protection:

Rubber gloves (EN 374)

Material thickness: 1 – 2 mm

Time for permeation: > 480 minutes

Gloves must be in specification with EC-Guideline 89/686/EWG and the resulting norm EN 374.

Prior to use check tightness / impermeability. If other glove materials are intended to be used, it is the customer's sole responsibility to verify suitability.

Eye protection:

Tightly fitting safety goggles (EN 166)

Hygiene measures:

Immediately change contaminated clothing. Apply skin-protective barrier cream. Ensure adequate ventilation.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:

Liquid

Color:

Amber

Odor:

Hydrocarbon-like

pH:

No data available

Boiling point/range:

195 °C

Melting point/range:

-88 °C

Flash point:

77 °C

Autoignition temperature:

470 °C

Evaporation rate:

No data available

Vapour density:

(Air = 1.0) 4,5

Solubility in other solvents :

No information available

Explosive properties :

No information available

Oxidising properties :

No information available

Vapour pressure :

0,24 mmHg @ 20 °C

Relative density :

0,915 @ 25 °C

Water solubility :

0,0052 % @ 25 °C

Viscosity :

No data available

Partition coefficient (n-octanol/water) :

log K_{ow} = 3,59

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10. STABILITY AND REACTIVITY

Hazardous decomposition products :	Possible decomposition products are: Carbon oxides .
Materials to avoid :	Incompatible with strong acids and oxidizing agents and peroxides
Conditions to avoid :	Heat, flames and sparks.
Further information :	Polymerization can occur. Polymerization is a highly exothermic reaction and may generate sufficient heat to cause thermal decomposition and/or rupture containers

11. TOXICOLOGICAL INFORMATION

Acute toxicity :	Divinylbenzene : LD ₅₀ /oral/rat : 4.100 mg/kg Naphthalene : LD ₅₀ /oral/rat : > 2.000 mg/kg
Acute toxicity / further data:	
Inhalation :	Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Inhalation of vapours in high concentration may cause irritation of respiratory system.
Skin contact :	Irritating to skin.
Eye contact :	Irritating to eyes.
Ingestion :	Ingestion may provoke the following symptoms: Nausea, dizziness or unconsciousness.
Chronic toxicity :	Naphthalene : Specific hazards : Limited evidence of a carcinogenic effect.

12. ECOLOGICAL INFORMATION

Bioaccumulation :	No data is available on the product itself.
Ecotoxicity effects :	No data is available on the product itself.
Fish toxicity (Naphthalene):	LC ₅₀ /96h/fish : 0.51 mg/l (Micropterus salmoides)
Daphnia toxicity (Naphthalene):	LC ₅₀ /48h/daphnia : 2.16 mg/l (Oncorhynchus mykiss)
Persistence and degradability :	No data is available on the product itself.

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13. DISPOSAL CONSIDERATIONS

Waste from residues : Dispose of in accordance with local regulations
Do not let product enter drains.

Packaging: Dispose of in accordance with local regulations

14. TRANSPORT INFORMATION

ROAD & RAIL

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Divinylbenzene)
Hazard Class: 9
ID Number: UN3082 Hazard Identification Number: 90
Packing Group: PG III

OCEAN

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Divinylbenzene)
Hazard Class: 9
ID Number: UN3082
Packing Group: PG III
Marine Pollutant: No

AIR

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Divinylbenzene)
Hazard Class: 9
ID Number: UN3082
Packing Group: PG III

INLAND WATERWAYS

Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s. (Divinylbenzene)
Hazard Class: 9
ID Number: UN3082
Packing Group: PG III

15. REGULATORY INFORMATION

EC Classification and User Label Information

Hazard Symbol :

Xi - Irritant.

N - Dangerous for the environment.

Risk Phrases :

R36/37/38 - Irritating to eyes, respiratory system and skin.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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Safety Phrases :

S7 - Keep container tightly closed

S23 - Do not breathe vapour.

S24/25 – Avoid contact with skin and eyes

S36/37/39 - Wear suitable protective clothing, gloves and eye/face protection

S61 - Avoid release to the environment. Refer to special instructions/Safety data sheets.

Contains: P-tert-Butylcatechol, may produce an allergic reaction.

16. OTHER INFORMATION

Risk-phrases in Section 2

R21/22 - Harmful in contact with skin and if swallowed.

R22 - Harmful if swallowed.

R34 - Causes burns.

R36/37/38 - Irritating to eyes, respiratory system and skin.

R40 – Possible risks of irreversible effects.

R43 - May cause sensitization by skin contact.

R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Information provided by:

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