

ETHACURE® 300 Curative

Material Safety Data Sheet

Revision Date: 12-Oct-2011 Supersedes 21-Jun-2007

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name

ETHACURE® 300 Curative

Chemical Name

6-Methyl-2,4-bis(methylthio)phenylene-1,3-diamine; 2-methyl-4,6-bis(methylthio) phenylene-

1.3-diamine

Chemical Family

Aromatic diamine

CAS-No Formula 106264-79-3 C9H14N2S2

General function

Curing chemical

Emergency Telephone Numbers

+1-225-344-7147

For Non-Emergency

800-535-3030

Health 2

HMIS

Flammability

1 1

NFPA

Physical Hazards

0 0

2. HAZARDS IDENTIFICATION

Warning

Emergency Overview

May be harmful if swallowed

May cause sensitization by skin contact.

Liver and kidney effects have been produced in laboratory animals.

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

Potential Health Effects

Eyes

Irritating to eyes.

Skin

Irritating to skin.

Inhalation

Inhalation of vapours in high concentration may cause irritation of respiratory system.

Ingestion

Harmful if swallowed.

See Section 11 for additional Toxicological information.

Occupational Exposure Limit

See Section 8

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %		
4-methyl-2,6-bis(methylthio)-1,3-benzenediamine	102093-68-5	80		
2-methyl-4,6-bis(methylthio)-1,3-benzenediamine	104983-85-9	20		

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4. FIRST AID MEASURES

Eye contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice.

Skin Contact After contact with skin, wash immediately with plenty of water. Wash clothing before reuse.

Inhalation Move to fresh air.

Ingestion If swallowed, seek medical advice immediately and show this container or label . Rinse

mouth with water.

Notes to Physician Treat symptomatically

5. FIRE-FIGHTING MEASURES

Combustion/explosion hazards In case of fire and/or explosion do not breathe fumes.

Suitable extinguishing media Carbon dioxide, dry chemicals, foam, water spray (mist).

Hazardous Combustion Products Oxides of carbon and nitrogen. Oxides of sulphur.

Protective Equipment and Precautions for Firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Ventilate the area. Avoid contact with the skin and the eyes.

Environmental precautions Contain any spill with dikes or absorbents to prevent migration and entry into sewers or

streams. May require excavation of contaminated soil.

Methods for Cleaning up

Take up small spills with dry chemical absorbent. Large spills may be taken up with pump

or vacuum and finished off with dry chemical absorbent.

7. HANDLING AND STORAGE

Handling Mechanical ventilation is recommended. Local exhaust is needed at source of vapours.

Storage Keep under inert gas. Keep away from heat. Keep away from humidity.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment:

Eyelface Protection Chemical goggles or face shield with safety glasses.

Skin Protection Wear protective gloves/clothing.

Hand protection Gloves resistant to chemical permeation.

Respiratory protection Approved supplied-air respirator when exposed to vapours from heated material.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Flash point

Flammable limits (LEL, UEL)

Form

Vapor pressure

Color Density Odor

Vapor density Water Solubility Boiling Point

Melting/freezing point
Viscosity, dynamic
Viscosity, kinematic
Partition Coefficient (log Pow)
Flammability (solid, gas)
Oxidizing Properties

176°C(PMCC) No data available

Liquid

<0.89 mmHg146 °C

Amber.

1.2 g/ml(20°C)

Amine.

No data available

<1% (20°C)

Decomposes at 353 °C

No data available

No data available 0.00691 m2/s(20°C)

2.63(20 °C) Not applicable Not applicable

Not applicable

10. STABILITY AND REACTIVITY

Stability

Stable.

Conditions to Avoid

Explosive Properties

Keep away from humidity.

Materials to avoid

Strong acids. Strong oxidizing agents.

Hazardous decomposition products

Oxides of carbon, nitrogen and sulphur.

Hazardous Polymerization

None under normal processing.

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11. TOXICOLOGICAL INFORMATION

Routes of exposure

No information available

Health and hazardous information

Acute toxicity Skin contact Eye contact Inhalation

Skin sensitization Carcinogenic effects

Mutagenic Effects

Reproductive Effects Target Organ Effects Chronic Effects May be harmful if swallowed.

Not irritating Not irritating. Not irritating

Oral carcinogenicity test: (2 years): Did not show carcinogenic

effects in animal experiments.

Ames Test: Positive and negative results obtained. In vitro mutagenicity test: Not genotoxic in mammalian cell

systems. Mouse micronucleus test : negative.

No information available No information available

Rats given this product in the diet for up to 90 days showed increased liver metabolic activity. There were kidney effects observed that were unique to male rats. These effects were similar to changes that have been observed in male rats given hydrocarbons. These effects resolved in animals allowed 30 days recovery. Rats treated for 24 months did not have microscopic alterations in any tissues compared to control animals. Tumors seen in control and treated animals were usual for the age and strain of rats. Details of these studies are

for the age and strain of rats. Details of these studies are available upon request.

No information available

No information available

Signs and Symptoms of Overexposure

Aspiration Hazard Statement

LD50 Oral: LD50 Dermal:

Other data

Rat Oral LD50:1515 mg/kg (rat)

Rabbit dermal LD50:>2000 mg/kg (rabbit)

Based on test data, may cause sensitization by skin contact.

12. ECOLOGICAL INFORMATION

Ecotoxicity

EC50 EC50 LC50/96h/rainbow trout :7.3mg/L EC50/48h/Daphnia :0.9mg/L

EC50/72h/algae:

(Selenastrum capricornutum)7.6mg/L

Ecotoxicity effects

Very toxic to aquatic organisms

Persistence/Degradability

Not readily biodegradable.

(OECD 301 D)

Bioaccumulation/ Accumulation

No information available

Mobility in Environmental Media

No information available

Other adverse effects

May cause long-term adverse effects in the aquatic environment

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method

This material and its container must be disposed of as hazardous waste. Dispose in a safe manner in accordance with local/national regulations.

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14. TRANSPORT INFORMATION

DOT

Proper Shipping Name

Environmentally hazardous substance liquid, N.O.S. (6-Methyl-2,4-bis (methylthio) phenylene-

1,3-diamine)

Hazard Class

9 3082

UN No. Packing Group

III Y.

Marine Pollutant: Description

UN 3082 Environmentally hazardous substance liquid, N.O.S. (6-Methyl-2,4-

bis(methylthio)phenylene-1,3-diamine), 9, III, Marine Pollutant

IMDG/IMO

IMO Class
Packing Group

9 III

UN-No

3082

IMO Labelling and Marking

9 + Marine Pollutant Marking

Proper Shipping Name

Environmentally hazardous substance liquid, N.O.S. (6-Methyl-2,4-bis (methylthio) phenylene-

1,3-diamine)

EmS F-A,

F-A, S-F

Marpol - Annex II
Marpol - Annex III

Not determined Marine Pollutant

Transport Description

UN 3082 Environmentally hazardous substance, liquid, n.o.s (6-Methyl-2,4-

bis(methylthio)phenylene-1,3-diamine), 9, III, Marine pollutant

IATA/ICAO

IATA/ICAO Class

9

Packing Group

III 3082

UN-No

9 + 'Environmentally hazardous substance' mark

IATA/ICAO Labelling/Marking Passenger Aircraft

Maximum net quantity per package: 450 L

Cargo aircraft only

Maximum net quantity per package: 450 L

Proper shipping name

Environmentally hazardous substance liquid, N.O.S. (6-Methyl-2,4-bis(methylthio)phenylene-

1,3-diamine)

Transport Description

UN 3082 Environmentally hazardous substance, liquid, n.o.s (6-Methyl-2,4-

bis(methylthio)phenylene-1,3-diamine), 9, III,

15. REGULATORY INFORMATION

	International Inventories	TSCA	DSL	NDSL	AICS	EINECS	ELINCS	ENCS	KECL	PICCS	CHINA	NZIoC
ſ	ETHACURE® 300 Curative	-:	-	-	X	-	X	<u> </u>			X	X

(X) Complies

(-) Does not Comply

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Chronic Health Hazard

Acute Health Hazard

Fire Hazard

Sudden Release of Pressure Hazard

No
Reactive Hazard

No

Reportable and Threshold Planning Quantities

No ingredients have RQs or TPQs under SARA or CERCLA.

State Regulations

No components subject to "Right-To-Know" legislation in the following States; California, Massachusetts, New Jersey, and Pennsylvania.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazards

D1B Toxic materials

16. OTHER INFORMATION

Prepared By

Health & Environment Department

Albemarle Corporation

FOR ADDITIONAL NONEMERGENCY PRODUCT INFORMATION, CONTACT:

Revision Date: 12-Oct-2011

HEALTH AND ENVIRONMENT DEPARTMENT

ALBEMARLE CORPORATION

451 FLORIDA ST.

BATON ROUGE, LA. 70801

(800) 535-3030

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The information contained herein is accurate to the best of our knowledge. The Company makes no warranty of any kind, express or implied, concerning the safe use of this material in your process or in combination with other substances.