

MET-MOUNT 2 HARDENER

Safety Data Sheet

1,2-ethanediamine, N,N'-bis(2-aminoethyl)- (112-24-3)

Bioaccumulative potential Bioaccumulation: not applicable.

Benzene-1,3-dimethanamine (1477-55-0)

BCF fish 1 < 2.7 (BCF)

Log Pow 0.15

Bioaccumulative potential Low potential for bioaccumulation (Log Kow < 4).

P-tert-butyl Phenol (98-54-4)

Log Pow 3.29

12.4. Mobility in soil

Triphenyl phosphite (101-02-0)

Ecology - soil Toxic to flora.

1-piperazineethanamine (140-31-8)

Log Koc log Koc,4.57; Read-across; GLP

12.5. Other adverse effects

Effect on global warming : No known effects from this product.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Landfilling of free liquid not recommended. Fuels burning or incineration preferred for material disposed of in "as sold" condition if regulations permit.

Sewage disposal recommendations : Do not discharge into drains or the environment.

Waste disposal recommendations : Collect all waste in suitable and labeled containers and dispose according to local legislation. Dispose in a safe manner in accordance with local/national regulations. For small amounts, mix resin and hardener according to product directions and allow to harden. When cured, product is non-hazardous, and may be placed in industrial or municipal landfill if local regulations permit.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN2735 Polyamines, liquid, corrosive, n.o.s. (Aliphatic amine blend), 8, II

UN-No.(DOT) : UN2735

Proper Shipping Name (DOT) : Polyamines, liquid, corrosive, n.o.s.
Aliphatic amine blend

Class (DOT) : 8 - Class 8 - Corrosive material 49 CFR 173.136

Packing group (DOT) : II - Medium Danger

Hazard labels (DOT) : 8 - Corrosive



Dangerous for the environment : Yes

Marine pollutant : Yes



DOT Packaging Non Bulk (49 CFR 173.xxx) : 202

DOT Packaging Bulk (49 CFR 173.xxx) : 242

DOT Symbols : G - Identifies PSN requiring a technical name

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Emergency Response Guide (ERG) Number : 153

Transport by sea

UN-No. (IMDG) : 2735
Proper Shipping Name (IMDG) : POLYAMINES, LIQUID, CORROSIVE, N.O.S.
Class (IMDG) : 8 - Corrosive substances
Packing group (IMDG) : II - substances presenting medium danger
Limited quantities (IMDG) : 1 L

Air transport

UN-No. (IATA) : 2735
Proper Shipping Name (IATA) : Polyamines, liquid, corrosive, n.o.s.
Class (IATA) : 8 - Corrosives
Packing group (IATA) : II - Medium Danger

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

Polyoxyalkyleneamine (9046-10-0)

EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C))
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Triphenyl phosphite (101-02-0)

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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1-piperazineethanamine (140-31-8)

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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Piperazine (110-85-0)

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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Polyamidoamine (TRADE SECRET)

EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C))
SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard

1,2-ethanediamine, N,N'-bis(2-aminoethyl)- (112-24-3)

SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard
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P-tert-butyl Phenol (98-54-4)

SARA Section 311/312 Hazard Classes	Delayed (chronic) health hazard Immediate (acute) health hazard
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15.2. International regulations

CANADA

No additional information available

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Piperazine (110-85-0)	
WHMIS Classification	Class D Division 2 Subdivision A - Very toxic material causing other toxic effects

EU-Regulations

efi Polymers Epoxy Hardener 50126 (None - mix)	
RoHS Substance	No
SVHC	No
Polyoxyalkyleneamine (9046-10-0)	
SVHC	No
RoHS Substance	No
Triphenyl phosphite (101-02-0)	
SVHC	No
RoHS Substance	No
Triethanolamine (102-71-6)	
SVHC	No
RoHS Substance	No
1-piperazineethanamine (140-31-8)	
SVHC	No
RoHS Substance	No
Piperazine (110-85-0)	
SVHC	No
RoHS Substance	No
Polyamidoamine (TRADE SECRET)	
SVHC	No
RoHS Substance	No
1,2-ethanediamine, N,N'-bis(2-aminoethyl)- (112-24-3)	
SVHC	No
RoHS Substance	No
Benzene-1,3-dimethaneamine (1477-55-0)	
SVHC	No
RoHS Substance	No
P-tert-butyl Phenol (98-54-4)	
SVHC	No
RoHS Substance	No

National regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

1,2-ethanediamine, N,N'-bis(2-aminoethyl)- (112-24-3)	
U.S. - New Jersey - Right to Know Hazardous Substance List	
Benzene-1,3-dimethaneamine (1477-55-0)	
U.S. - New Jersey - Right to Know Hazardous Substance List	

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SECTION 16: Other information

Other information : DISCLAIMER: To the best of our knowledge, the information contained in this MSDS is accurate or is obtained from sources believed to be accurate. However, no liability, expressed or implied, is assumed for the accuracy or completeness of the information contained herein. Buyer assumes liability in its use of the material.

Full text of H-phrases:

H302	Harmful if swallowed
H311	Toxic in contact with skin
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H330	Fatal if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H360	May damage fertility or the unborn child.
H361	Suspected of damaging fertility or the unborn child
H400	Very toxic to aquatic life
H401	Toxic to aquatic life
H402	Harmful to aquatic life
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
H412	Harmful to aquatic life with long lasting effects

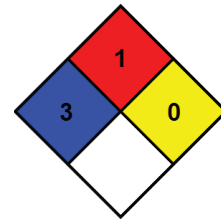
Abbreviations and acronyms:

	<p>N.A. - Not Applicable N.E. - Not Established N.D. - Not Determined ACGIH = American Conference of Governmental Industrial Hygienists OSHA = US Occupational Health and Safety Administration TLV-TWA = Threshold Limit Value-Time Weighted Average (8 hrs) STEL = Short-Term Exposure Limit (15 min) C = Ceiling Value PEL = Permissible Exposure Limit OEL = Occupational Exposure Limit IDLH = Immediately Dangerous to Life and Health ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor PNEC = Predicted No Effect Concentration LOAEL = Lowest Observed Adverse Effect Level NOAEL = No Observed Adverse Effect Level NOAEC = No Observed Adverse Effect Concentration</p>
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NFPA health hazard : 3 - Short exposure could cause serious temporary or residual injury even though prompt medical attention was given.

NFPA fire hazard : 1 - Must be preheated before ignition can occur.

NFPA reactivity : 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



HMIS III Rating
 Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
 * - Chronic (long-term) health effects may result from repeated overexposure

Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

Personal protection : D
 D - Face shield and eye protection, Gloves, Synthetic apron

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METLAB CORPORATION:

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product