

EPIKURE™ 3030 Curing Agent

Version 8.1

Print Date 07/06/2007

Revision Date 06/02/2007

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**Product information**

Trade name : EPIKURE™ 3030 Curing Agent

Product code : K9034

MSDS Number : 1619

Product Type : Curing agent.

Manufacturer, importer, supplier : Hexion Specialty Chemicals, Inc.
P. O. Box 4500
Houston TX 77210

Contact person : hsebox@hexion.com

Telephone : **General Information:**
(832) 486-6700

Emergency telephone:
CHEMTREC US Domestic (800) 424-9300
CHEMTREC International (703) 527-3887

SECTION 2. HAZARDS IDENTIFICATION**Emergency Overview**

Human health hazards : May be toxic if absorbed through skin. May cause severe eye irritation. May cause severe skin irritation. Mists or vapors may produce severe respiratory irritation. May cause severe irritation of the mouth, throat, and stomach. May cause skin sensitization.

Safety hazards : Material will not burn unless preheated.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No.	Weight %
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	68953-36-6	0 % - 95 %
Tetraethylenepentamine	112-57-2	< 10 %

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Fatty acids, vegetable-oil, reaction products with tetraethylenepentamine	68991-84-4	0 % - 95 %
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SECTION 4. FIRST AID MEASURES

- Inhalation : Remove victim to fresh air and provide oxygen if breathing is difficult. Give artificial respiration if not breathing. Get medical attention.
- Skin contact : Immediately remove contaminated clothing or shoes, wipe excess from skin and flush with plenty of water for at least 15 minutes. Use soap if available or follow by washing with soap and water. Do not reuse clothing until thoroughly cleaned. Get medical attention.
- Eye contact : Immediately flush eyes with plenty of water for 15 minutes while holding eyelids open. Rinse continuously with water while on way to get medical attention
- Ingestion : Do not induce vomiting. In general, no treatment is necessary unless large quantities of product are ingested. However, get medical advice.

SECTION 5. FIRE-FIGHTING MEASURES

- Unsuitable extinguishing media : Do not use water in a jet. Will float and can be reignited on surface water. Water or fog may cause frothing which can be violent, especially if sprayed into containers of hot or burning liquid.
- Suitable extinguishing media : Use water fog, "alcohol foam", dry chemical or carbon dioxide.
- Specific hazards during fire fighting : Material will not burn unless preheated. Delayed lung damage (pulmonary edema) can be experienced after exposure to combustion products, sometimes hours after the exposure. Nitrogen oxides and other potentially hazardous nitrogen-containing compounds may be released upon combustion.

Evacuate the area of all non-essential personnel. Containers exposed to intense heat from fires should be cooled with water to prevent vapor pressure buildup which could result in container rupture. Container areas exposed to direct flame contact should be cooled with large quantities of water as needed to prevent weakening of container structure.

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Special protective equipment for fire-fighters : Do not enter confined fire space without full bunker gear (helmet with face shield, bunker coats, gloves and rubber boots). including a positive pressure NIOSH approved self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions : May burn although not readily ignitable.
Use cautious judgement when cleaning up large spills.
Shut off leaks, if possible without personal risk.
Remove ignition sources.

Environmental precautions : Dike and contain.
Contain run-off and dispose of properly.
Remove contaminated soil to remove contaminated trace residues.
Prevent from entering into drains, ditches or rivers.

Clean-up methods - small spillage : Take up with an absorbent material and place in non-leaking containers.
Seal tightly for proper disposal.

Clean-up methods - large spillage : Remove with vacuum trucks or pump to storage/salvage vessels.
Soak up residue with an absorbent such as clay, sand or other suitable material; place in non-leaking containers for proper disposal.
Flush area with water to remove trace residue.

Additional advice : Notify authorities if any exposures to the general public or environment occurs or is likely to occur.
See Section 13 for information on disposal.

SECTION 7. HANDLING AND STORAGE**Handling**

Advice on safe handling : Do not taste or swallow. Do not breathe material. Use only with adequate ventilation. Avoid contact with skin, eyes and clothing
Wash thoroughly after handling. Do not pressurize drum containers to empty them. Heating this curing agent above 300 Deg. F in the presence of air may cause slow oxidative decomposition; above 500 Deg. F, polymerization may occur. Some epoxy resins can produce exothermic reactions which in large masses can cause runaway polymerization and charring of the reactants. Fumes and vapors from these thermal and

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chemical decompositions vary widely in composition and toxicity. Do not breathe fumes. Use a NIOSH-approved respirator as required to prevent overexposure. In accord with 29 CFR.1910.134, use either an atmosphere-supplying respirator or an air-purifying respirator for organic vapors. **WARNING.** May be toxic and harmful if absorbed through skin. May cause severe eye irritation. May cause severe skin irritation. May cause severe mouth, throat, and stomach irritation. May cause severe irritation to nose, throat and respiratory tract. May cause skin sensitization. Containers, even those that have been emptied, can contain hazardous product residues. Wash with soap and water before eating, drinking, smoking, applying cosmetics, or using toilet facilities. Launder contaminated clothing before reuse. Contaminated leather articles, including shoes, cannot be decontaminated and should be destroyed to prevent reuse.

Storage

Requirements for storage areas and containers : Store in a cool, dry place with adequate ventilation. Keep away from open flames and high temperatures. Keep containers closed when not in use.

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

- Protective measures : Wear appropriate respirator and protective clothing.
- Engineering measures : Adequate ventilation to control airborne concentrations. Eye wash fountains and safety showers should be available for emergency use.
- Eye protection : Avoid contact with eyes.
Wear chemical goggles if there is potential contact with eyes.
- Skin and body protection : Avoid contact with skin and clothing.
Wear chemical-resistant gloves and other clothing as required to minimize contact.
- Respiratory protection : Avoid breathing vapor or mists.
Use a NIOSH-approved respirator as required to prevent overexposure.
In accord with 29 CFR 1910.134, the types of respirator(s) to be considered include:
Air-Purifying Respirator for Organic Vapors.
Full-Face Supplied-Air Respirator.

Exposure Guidelines

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Components with workplace control parameters	Regulation	Exposure time	Value	Remarks
Fatty acids, tall-oil, reaction products with tetraethylenepentamine	ACGIH			None established.
Tetraethylenepentamine	ACGIH			None established.
Fatty acids, vegetable-oil, reaction products with tetraethylenepentamine	ACGIH			None established.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form	: Mobile liquid
Colour	: Amber
Odour	: Amine
Boiling point	: > 218.33 °C (> 424.99 °F)
Flash point	: > 93.33 °C (> 199.99 °F)
Relative density	: 0.96
Relative vapour density	: > 1
Solubility in water	: Insoluble.
Other physico-chemical properties	: The above properties are typical values only and do not constitute a specification (refer to supplier for supply specification).

SECTION 10. STABILITY AND REACTIVITY

Conditions to avoid	: Avoid high temperatures. Heat, flames and sparks.
Materials to avoid	: Strong oxidizing agents.
Hazardous reactions	: Stable under normal use conditions. Hazardous polymerization will not occur.

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SECTION 11. TOXICOLOGICAL INFORMATION

- Acute oral toxicity : Expected to be of low toxicity, LD50 > 2000 mg/kg.
- Acute dermal toxicity : Expected to be moderately toxic, 400 < LD50 <= 2000 mg/kg.
- Acute inhalation toxicity : no data available

Chronic Health Hazard

Components	Concentration	Regulation	Value	Remarks
Fatty acids, tall-oil, reaction products with tetraethylenepent amine	0 % - 95 %	US. IARC Monographs on Occupational Exposures to Chemical Agents		This component has not been classified by the International Agency for Research on Cancer (IARC).
Tetraethylenepent amine	< 10 %	US. IARC Monographs on Occupational Exposures to Chemical Agents		This component has not been classified by the International Agency for Research on Cancer (IARC).
Fatty acids, vegetable-oil, reaction products with tetraethylenepent amine	0 % - 95 %	US. IARC Monographs on Occupational Exposures to Chemical Agents		This component has not been classified by the International Agency for Research on Cancer (IARC).

Potential Health Effects

- Inhalation : Mists or vapors may produce severe respiratory irritation.
- Skin : May be toxic and may be harmful if absorbed through the skin.

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	May cause severe skin irritation. May cause skin sensitization.
Eyes	: May be severely irritating to the eyes. Vapors may be irritating.
Ingestion	: Not likely to be a relevant route of exposure. May cause severe irritation of the mouth, throat, and stomach.

SECTION 12. ECOLOGICAL INFORMATION**Elimination information (persistence and degradability)**

Biodegradability : no data available

Ecotoxicity effects

Toxicity to fish : no data available

Other information : Ecotoxicological data have not been determined specifically for this product.

SECTION 13. DISPOSAL CONSIDERATIONS

Product disposal : If this material becomes a waste, it would not be a hazardous waste by RCRA criteria (40 CFR 261). Place in an appropriate disposal facility in compliance with local and federal regulations.

SECTION 14. TRANSPORT INFORMATION

CFR_ROAD NOT REGULATED FOR TRANSPORT

IMDG NOT REGULATED FOR TRANSPORT

IATA_C NOT REGULATED FOR TRANSPORT

SECTION 15. REGULATORY INFORMATION

The regulatory information is not intended to be comprehensive. Other regulations may apply to this material.

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Notification status

TSCA : All components listed.

DSL : All components listed.

AICS : All components listed.

EINECS : All components are listed or exempt

INV (CN) : All components listed.

KECI (KR) : All components listed.

PICCS (PH) : All components listed.

ENCS (JP) : Not all components listed.

US. EPA CERCLA Hazardous Substances (40 CFR 302)

Fatty acids, tall-oil, reaction products with tetraethylenepentamine No RQ

Tetraethylenepentamine No RQ

Fatty acids, vegetable-oil, reaction products with tetraethylenepentamine No RQ

SARA 311/312 Hazards

Acute Health Hazard

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals(40 CFR 372. 65) - Supplier Notification Required

Fatty acids, tall-oil, reaction products with tetraethylenepentamine No De minimis Concentration

Tetraethylenepentamine No De minimis Concentration

Fatty acids, vegetable-oil, reaction products with tetraethylenepentamine No De minimis Concentration

US. EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 302 Extremely Hazardous Substance (40 CFR 355, Appendix A)

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Fatty acids, tall-oil, reaction products with tetraethylenepentamine Threshold Planning Quantity: No TPQ

Tetraethylenepentamine Threshold Planning Quantity: No TPQ

Fatty acids, vegetable-oil, reaction products with tetraethylenepentamine Threshold Planning Quantity: No TPQ

Fatty acids, tall-oil, reaction products with tetraethylenepentamine Reportable quantity: No RQ

Tetraethylenepentamine Reportable quantity: No RQ

Fatty acids, vegetable-oil, reaction products with tetraethylenepentamine Reportable quantity: No RQ

New Jersey Right-To-Know Chemical List

Fatty acids, tall-oil, reaction products with tetraethylenepentamine Not Listed

Tetraethylenepentamine Not Listed

Fatty acids, vegetable-oil, reaction products with tetraethylenepentamine Not Listed

Pennsylvania Right-To-Know Chemical List

Fatty acids, tall-oil, reaction products with tetraethylenepentamine Not Listed

Tetraethylenepentamine Listed.

Fatty acids, vegetable-oil, reaction products with tetraethylenepentamine Not Listed

Massachusetts Right-To-Know Chemical List

Fatty acids, tall-oil, reaction products with tetraethylenepentamine Not Listed

Tetraethylenepentamine Listed.

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Fatty acids, vegetable-oil, reaction products with tetraethylenepentamine Not Listed

HMIS Rating : Health: 2
 Fire: 1
 Reactivity: 0

SECTION 16. OTHER INFORMATION

Reference : Prepared in accordance with 29 CFR 1910.1200.

The information provided herein was believed by Hexion Specialty Chemicals ("Hexion") to be accurate at the time of preparation or prepared from sources believed to be reliable, but it is the responsibility of the user to investigate and understand other pertinent sources of information, to comply with all laws and procedures applicable to the safe handling and use of the product and to determine the suitability of the product for its intended use. All products supplied by Hexion are subject to Hexion's terms and conditions of sale. HEXION MAKES NO WARRANTY, EXPRESS OR IMPLIED, CONCERNING THE PRODUCT OR THE MERCHANTABILITY OR FITNESS THEREOF FOR ANY PURPOSE OR CONCERNING THE ACCURACY OF ANY INFORMATION PROVIDED BY HEXION, except that the product shall conform to Hexion's specifications. Nothing contained herein constitutes an offer for the sale of any product.

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