

Material Safety Data Sheet

Version 1.5

Revision Date 06/15/2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product name:

acryloylamidoethoxyethanol, 50% solution in water, containing ~0.01% methoxyhydroquinone stabilizer

Product number: AAEE

Company: Lucidant Polymers, LLC
1230 Bordeaux Dr.
Sunnyvale, CA 94089-1202
Telephone: 408-569-8607
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Emergency Phone #: 408-569-8607

2. HAZARDS IDENTIFICATION

Emergency Overview

OSHA Hazards

No known OSHA hazards

GHS Classification

Acute toxicity, Oral (Category 5)

Eye irritation (Category 2B)

GHS Label elements, including precautionary statements

Pictogram none

Signal word Warning

Hazard statement(s)

H303 May be harmful if swallowed.

H320 Causes eye irritation.

Precautionary statement(s)

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

HMIS Classification

Health hazard: 1

Flammability: 0

Physical hazards: 0

NFPA Rating

Health hazard: 0

Fire: 0

Reactivity Hazard: 0

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formula : C7H13NO3

Molecular Weight : 159.18 g/mol

No ingredients are hazardous according to OSHA criteria.

4. FIRST AID MEASURES

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

Move the person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse copiously with water for at least 15 minutes. Consult a physician.

If swallowed

Rinse mouth with water. Never give anything by mouth to an unconscious person. Consult a physician.

5. FIRE-FIGHTING MEASURES**Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical, or CO₂.

Special protective equipment for firefighters

Wear self-contained breathing apparatus for fire-fighting if necessary.

Hazardous combustion products

Hazardous decomposition products formed under fire conditions: carbon oxides, nitrogen oxides (NO_x)

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Use personal protective equipment. Avoid breathing vapors, mist, or gas. Ensure adequate ventilation.

Environmental precautions

Do not let product enter drains.

Methods and materials for containment and cleaning up

Soak up with inert absorbent material, dispose as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE**Precautions for safe handling**

Avoid contact with skin and eyes. Avoid inhalation of vapor or mist. Use normal measures for preventive fire protection.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: 2-8°C or lower. Moderately air-sensitive.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Components with workplace control parameters**

Component	CAS No.	Value	Control Parameters	Basis
methoxyhydroquinone (4-methoxyphenol, mequinol, MEHQ)	150-76-5	TWA	5 mg/m ³	USA. ACGIH Threshold Limit Values (TLV)
Remarks	Eye irritation. Skin damage.			
		TWA	5 mg/m ³	USA. OSHA - Table Z-1 Limits for Air Contaminants - 1910.1000
		TWA	5 mg/m ³	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants

Personal protective equipment**Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Eye protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

form	clear, viscous liquid
color	clear to yellowish

Safety data

pH	no data available
melting point	no data available
freezing point	no data available
boiling point	no data available
flash point	no data available
ignition temperature	no data available
autoignition temperature	no data available
lower explosion limit	no data available
upper explosion limit	no data available
vapor pressure	no data available
density	1.075 g/cm ³ at 20°C (68°F)
water solubility	no data available
partition coefficient: n-octanol/water	no data available
relative vapor density	no data available
odor	no data available
odor threshold	no data available
evaporation rate	no data available

10. STABILITY AND REACTIVITY**Chemical stability**

stable under recommended storage conditions

Possibility of hazardous reactions

no data available

Conditions and materials to avoid

strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions: carbon oxides, nitrogen oxides (NOx)

Other decomposition products—no data available

Contains the following stabilizer(s): methoxyhydroquinone (MEHQ; 4-methoxyphenol) (0.01%)

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Oral LD50

Inhalation LC50

no data available

Dermal LD50

no data available

Other information on acute toxicity

no data available

Skin corrosion/irritation

no data available

Serious eye damage/eye irritation

Eyes: no data available

Respiratory or skin sensitization

no data available

Germ cell mutagenicity

no data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

no data available

Teratogenicity

no data available

Specific target organ toxicity—single exposure (Globally Harmonized System)

no data available

Specific target organ toxicity—repeated exposure (Globally Harmonized System)

no data available

Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Synergistic effects

no data available

Additional Information

RTECS: Not available

12. ECOLOGICAL INFORMATION

Toxicity

no data available

Persistence and degradability

no data available

Bioaccumulative potential

no data available

Mobility in soil

no data available

PBT and vPvB assessment

no data available

Other adverse effects

no data available

13. DISPOSAL CONSIDERATIONS

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

15. REGULATORY INFORMATION

OSHA Hazards

No known OSHA hazards

SARA 302 Components

methoxyhydroquinone (CAS-No. 150-76-5) Revision Date: 2007-07-01

SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards

No SARA Hazards

Reportable Quantity : lowest RQ > 999999 lbs

lowest RQ > 999999 lbs

Massachusetts Right To Know Components

methoxyhydroquinone (CAS-No. 150-76-5) Revision Date: 1994-04-01

Pennsylvania Right To Know Components

Water (CAS No. 7732-18-5)

N-Acryloylamido-ethoxyethanol (CAS No. 89911-50-2)

methoxyhydroquinone (CAS-No. 150-76-5) Revision Date: 1994-04-01

New Jersey Right To Know Components

Water (CAS No. 7732-18-5)

N-Acryloylamido-ethoxyethanol (CAS No. 89911-50-2)

methoxyhydroquinone (CAS-No. 150-76-5) Revision Date: 1994-04-01

California Prop. 65 Components

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

16. OTHER INFORMATION

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lucidant Polymers, LLC, shall not be held liable for any damage resulting from handling or from contact with the above product.