

Safety Data Sheet

File version: 1

Jeffamine ED-2001, 50%(v/v)

SDS Date: 01 Dec 2016

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 50%(v/v) Jeffamine ED-2001
SYNONYMS: O,O'-Bis(2-aminopropyl) polypropylene glycol-block-polyethylene glycol-block-polypropylene glycol 1,900
PRODUCT CODES: 1008030
 1008031
MANUFACTURER: Rigaku Reagents
ADDRESS: 9009 New Trails Drive
 The Woodlands, TX 77381
 USA
PHONE: +1 (281) 362-2300
EMAIL: ReagentOrders@Rigaku.com

CHEMICAL NAME: O,O'-Bis(2-aminopropyl) polypropylene glycol-block-polyethylene glycol-block-polypropylene glycol 1,900
CHEMICAL FORMULA: CH₃CH(NH₂)CH₂(OCH₂CH₂)_nOCH₂CH(NH₂)CH₃

PREPARED BY: Rigaku Reagents

SECTION 1 NOTES:

SECTION 2: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:**OSHA HAZARDS:** No known OSHA hazards**POTENTIAL HEALTH EFFECTS:****EYES:** May cause eye irritation.**SKIN:** May be harmful if absorbed through skin. May cause skin irritation.**INGESTION:** May be harmful if swallowed.**INHALATION:** May be harmful if inhaled. May cause respiratory tract irritation.**SECTION 2 NOTES:**

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENTS: Poly(oxyethylene, oxypropylene)diamine, De-ionized water**POLY(OXYETHYLENE, OXYPROPYLENE)DIAMINE:**

<u>CAS NO.</u>	<u>% WT</u>	<u>% VOL</u>
65605-36-9		47.5-52.5

SECTION 3 NOTES:

SECTION 4: FIRST AID MEASURES

EYES: Rinse thoroughly with plenty of water for at least 15 minutes.**SKIN:** Flush eyes with water as a precaution.**INGESTION:** Never give anything by mouth to an unconscious person. Rinse mouth with water.**INHALATION:** If breathed in, move person into fresh air. If not breathing, give artificial respiration.**SECTION 4 NOTES:**

Safety Data Sheet

File version: 1

Jeffamine ED-2001, 50%(v/v)

SDS Date: 01 Dec 2016

SECTION 5: FIRE-FIGHTING MEASURES

FLASH POINT:

F: 235 °

C: 113 °

AUTOIGNITION TEMPERATURE:

F: No data available

C: No data available

NFPA HAZARD CLASSIFICATION

HEALTH: 0

FLAMMABILITY: 1

REACTIVITY: 0

HMS HAZARD CLASSIFICATION

HEALTH: 0

FLAMMABILITY: 1

REACTIVITY: 0

EXTINGUISHING MEDIA: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.**HAZARDOUS DECOMPOSITION PRODUCTS:** Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO_x)**SECTION 5 NOTES:**

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Avoid breathing vapors, mist or gas.**ENVIRONMENTAL PRECAUTIONS:** Do not let product enter drains.**METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:** Soak up with inert absorbent material and dispose of as appropriate. Keep in suitable, closed containers for disposal.**SECTION 6 NOTES:**

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Normal measures for preventive fire protection. Keep container tightly closed in a dry and well-ventilated place. Store under inert gas. Air sensitive.**SECTION 7 NOTES:**

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

RESPIRATORY PROTECTION: Respiratory protection is not required. Where protection is desired, use multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).**EYE PROTECTION:** Safety glasses**SKIN PROTECTION:** For prolonged or repeated contact use protective gloves.**WORK HYGIENIC PRACTICES:** Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.**SECTION 8 NOTES:**

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Safety Data Sheet

File version: 1

Jeffamine ED-2001, 50%(v/v)

SDS Date: 01 Dec 2016

APPEARANCE: clear, colorless**PHYSICAL STATE:** liquid, clear**pH AS SUPPLIED:** No data available**pH (Other):** No data available**BOILING POINT:****F:** No data available**C:** No data available**FREEZING POINT:****F:** 72 °**C:** 22 °**VAPOR PRESSURE (mmHg):** No data available

@

F: No data available**C:** No data available**VAPOR DENSITY (AIR = 1):** No data available**SPECIFIC GRAVITY (H₂O = 1):** 1.056**EVAPORATION RATE:** No data available**SOLUBILITY IN WATER:** No data available**MOLECULAR WEIGHT:** 162.2 g mol⁻¹**VISCOSITY:** No data available

@

F: No data available**C:** No data available**SECTION 9 NOTES:**

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable under recommended storage conditions.**CONDITIONS TO AVOID (STABILITY):** No data available**INCOMPATIBILITY (MATERIAL TO AVOID):** Strong oxidizing agents, acids**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** Hazardous decomposition products formed under fire conditions. - Carbon oxides, nitrogen oxides (NO_x)**SECTION 10 NOTES:**

SECTION 11: TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:**ORAL LD₅₀:** No data available.**INHALATION LC₅₀:** No data available.**DERMAL LD₅₀:** No data available.**SKIN CORROSION/IRRITATION:** No data available.**SERIOUS EYE DAMAGE/EYE IRRITATION:** No data available.**RESPIRATORY OR SKIN SENSITIZATION:** No data available.**GERM CELL MUTAGENICITY:** No data available.

Safety Data Sheet

File version: 1

Jeffamine ED-2001, 50%(v/v)

SDS Date: 01 Dec 2016

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.
- 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.**SECTION 11 NOTES:**

SECTION 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

SECTION 12 NOTES:

SECTION 13: DISPOSAL CONSIDERATIONS

PRODUCT: Observe all federal, state, and local environmental regulations.**CONTAMINATED PACKAGING:** Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

U.S. DEPARTMENT OF TRANSPORTATION

Not dangerous goods

WATER TRANSPORTATION

Not dangerous goods

AIR TRANSPORTATION

Not dangerous goods

SECTION 14 NOTES:

SECTION 15: REGULATORY INFORMATION

OSHA HAZARDS: No known OSHA hazards**SARA 302 COMPONENTS:** No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.**SARA 313 COMPONENTS:** 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.

Safety Data Sheet

File version: 1

Jeffamine ED-2001, 50%(v/v)

SDS Date: 01 Dec 2016

SARA 311/312 HAZARDS: No SARA Hazards**MASSACHUSETTS RIGHT TO KNOW COMPONENTS:**

No components are subject to the Massachusetts Right to Know Act.

PENNSYLVANIA RIGHT TO KNOW COMPONENTS:Poly(oxyethylene, oxypropylene)diamine
Water**CAS-No.**
65605-36-9
7732-18-5**NEW JERSEY RIGHT TO KNOW COMPONENTS:**Poly(oxyethylene, oxypropylene)diamine
Water**CAS-No.**
65605-36-9
7732-18-5**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.**SECTION 15 NOTES:**

SECTION 16: OTHER INFORMATION

DISCLAIMER: The above information is believed to be correct but does not necessarily include all information and should be used only as a guide. The information in this document is based on our current knowledge and applies to the product with regard to appropriate safety precautions. This document does not represent any guarantee of the properties of the product. Rigaku Reagents will not be held liable for any damage resulting from handling or contact with the above product.