

MATERIAL SAFETY DATA SHEET

MSDS DATE: 29/05/06

FILE NO.: ALX-340-045

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: Prostaglandin A₁
N/A
PRODUCT CODES: ALX-340-045
MANUFACTURER: ALEXIS Corporation
ADDRESS: Industriestrasse 17
CH-4415 Lausen
Switzerland
TELEPHONE: +41 61 926 8989
FAX PHONE: +41 61 926 8979
WEBSITE: www.axxora.com

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Formula:</u>	<u>CAS #</u>	<u>EC #</u>	<u>Annex I Index #</u>
C ₂₀ H ₃₂ O ₄	14152-28-4	N/A	N/A

SECTION 3: HAZARDS IDENTIFICATION

ACUTE HEALTH EFFECTS: No specific hazard.

SECTION 4: FIRST AID MEASURES

EYES: Rinse immediately with plenty of water for 15 minutes. Seek medical attention if symptoms appear.
SKIN: Wash immediately with water for 15 minutes. Remove contaminated clothing. Seek medical attention if symptoms appear.
INGESTION: Rinse mouth with water. Seek medical attention if symptoms appear. Provide MSDS and label information if possible.
INHALATION: Take into fresh air. If breathing is difficult, administer oxygen.

SECTION 5: FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Water spray, water foam, polymer foam, carbon dioxide, dry chemicals.
SPECIAL FIRE FIGHTING PROCEDURES: In case of fire, watch out for the formation of toxic smoke and gases. Wear self-contained respiration equipment. Prevent contact with skin and eyes.
UNUSUAL FIRE AND EXPLOSION HAZARDS: May be combustible at high temperatures.
HAZARDOUS DECOMPOSITION PRODUCTS: N/A

SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Wear chemical safety goggles, rubber boots and heavy rubber gloves.
ACCIDENTAL RELEASE MEASURES: Avoid formation of dust, sweep up spill and place in sealed container and hold for disposal. Ventilate area and wash spill site after material pickup is complete.

SECTION 7: HANDLING AND STORAGE

HANDLING AND STORAGE: Keep locked up. Keep away from heat, sources of ignition and incompatibles such as oxidizing agents. Empty containers pose a fire risk, evaporate the residue under a fume hood. Ground all equipment containing material. Avoid contact with skin and eyes; do not breathe dust. Avoid prolonged or repeated exposure. Immediately remove all contaminated clothing. Wash hands before breaks and after work. Avoid eating, drinking and storage of food in the work room. Store tightly sealed at -20°C.

MATERIAL SAFETY DATA SHEET

MSDS DATE: 29/05/06

FILE NO.: ALX-340-045

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: Use only in chemical fume hood. Safety shower and eye bath.
VENTILATION: Government approved respirator.
EYE PROTECTION: Chemical safety goggles.
SKIN PROTECTION: Compatible gloves, protective coat or clothing.
SECTION 8 NOTES: Wash thoroughly after handling. Wash contaminated clothing before reuse.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White to off-white solid.
ODOR: N/A
pH AS SUPPLIED: N/A
BOILING POINT: N/A
MELTING POINT: N/A
FREEZING POINT: N/A
VAPOR PRESSURE (mmHg): N/A
VAPOR DENSITY (AIR = 1): N/A
SPECIFIC GRAVITY (H₂O = 1): N/A
EVAPORATION RATE: N/A
BASIS (=1): N/A
SOLUBILITY: Soluble in 100% ethanol, DMSO or dimethyl formamide; also soluble in PBS, pH 7.2.
MOLECULAR WEIGHT: 336.5

SECTION 10: STABILITY AND REACTIVITY

STABILITY: Stable. Avoid strong oxidizing agents.
HAZARDOUS DECOMPOSITION: Carbon monoxide, carbon dioxide.
HAZARDOUS POLYMERIZATION: Will not occur.

SECTION 11: TOXICOLOGICAL INFORMATION

RTECS # : GY5977900

TOXICOLOGICAL INFORMATION: May be harmful by inhalation, ingestion or skin absorption. May be irritating to mucous membranes and upper respiratory tract. Target organ smooth muscle. To the best of our knowledge, the toxicological properties have not been thoroughly investigated.

LD50: Not available.

CHRONIC EXPOSURE-CARCINOGEN: Not available.

CHRONIC EXPOSURE-MUTAGEN: Species: Human
Dose: 2500 UG/L
Cell Type: Other Cell types
Other mutation test systems.

CHRONIC EXPOSURE-TERATOGEN: Species: Rat
Dose: 169 UG/KG
Route of Application: Intravaginal
Exposure Time: (17D PREG)
Result: Specific Developmental Abnormalities: Craniofacial (including nose and tongue). Specific Developmental Abnormalities: Urogenital system. Other developmental abnormalities.

Species: Mouse
Dose: 10 MG/KG
Route of Application: Subcutaneous
Exposure Time: (16D PREG)
Result: Effects on Embryo or Fetus: Fetal death.

CHRONIC EXPOSURE-REPRODUCTION: Species: Rat
Dose: 12 MG/KG
Route of Application: Intraperitoneal

MATERIAL SAFETY DATA SHEET

FILE NO.: ALX-340-045

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Exposure Time: (10D MALE)
Result: Paternal Effects: Other effects on male.

Species: Rat
Dose: 169 UG/KG
Route of Application: Intravaginal
Exposure Time: (17D PREG)
Result: Effects on Fertility: Post-implantation mortality (e.g., dead and/or resorbed implants per total number of implants).

Species: Mouse
Dose: 40 MG/KG
Route of Application: Subcutaneous
Exposure Time: (16D PREG)
Result: Effects on Fertility: Abortion.

SECTION 12: ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: The product itself and its products of degradation are not toxic.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations.

SECTION 14: TRANSPORT INFORMATION

INTERNATIONAL TRANSPORT REGULATIONS:

LAND – ROAD/RAILWAY: ADR/RID Class: Not controlled.
SEA: IMDG Class: Not controlled.
AIR: IATA-DGR Class: Not controlled.
SPECIAL PROVISIONS FOR TRANSPORT: N/A

SECTION 15: REGULATORY INFORMATION

CLASSIFICATION AND LABELING ACCORDING TO EU DIRECTIVES:

SYMBOL OF DANGER: Not classified.
R-PHRASES: N/A
S-PHRASES: S22 - Do not breathe dust.
S24/25 - Avoid contact with skin and eyes

U.S. FEDERAL REGULATIONS: Not classified.

HCS CLASSIFICATION: Not classified.

WHMIS (CANADA): Not classified.

SECTION 16: OTHER INFORMATION

DISCLAIMER: 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. Alexis Corporation shall not be held liable for any damage resulting from handling or from contact with the above product.
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