

SAFETY DATA SHEET

Cat# 1846-1, -5, PS-341

SDS DATE: Mar 26, 2012

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: PS-341

PRODUCT CODES: Cat# 1846-1, -5

MANUFACTURER: BioVision, Inc.
ADDRESS: 155 S. Milpitas Boulevard, Milpitas, CA 95035

EMERGENCY PHONE: 858-373-8066
CHEMTREC PHONE:
OTHER CALLS: 408-493-1800
FAX PHONE: 408-493-1801

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

Component	Description	Volume	Safety Information
PS-341	Solid	1846-1: 1 mg 1846-5: 5 mg	See below

SECTION 3: HAZARDS IDENTIFICATION

Product Name/Chemical Name	CAS Number	EC-No.	MW	Chemical Formula
PS-341	179324-69-7	--	384.24	C ₁₉ H ₂₅ BN ₄ O ₄

PS-341:

Emergency Overview

OSHA Hazards: Irritant, Very toxic by ingestion, Very toxic by absorption, Very toxic by inhalation, Target organ effect, Reproductive hazard

Target Organs: Gastrointestinal tract, Liver, Reproductive system, Eyes, Skin, Blood, Kidney

GHS Classification: Acute toxicity, Oral (Category 2)
Acute toxicity, Inhalation (Category 2)
Acute toxicity, Dermal (Category 2)
Skin irritation (Category 2A)
Eye irritation (Category 2)
Reproductive toxicity (Category 1B)

GHS Label elements, including precautionary statements

Pictogram:



Signal word: Danger

Hazard statement(s): H300 Fatal if swallowed.
H310 Fatal in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H330 Fatal if inhaled.
H360 May damage fertility or the unborn child.

Precautionary statement(s): P260 Do not breathe dust/fumes/gas/mist/vapors/spray.
P263 Avoid contact during pregnancy/while nursing.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P281 Use personal protective equipment as required.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P330 Rinse mouth.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P361 Remove/take off immediately all contaminated clothing.
P363 Wash contaminated clothing before reuse.
P405 Store locked up.

HMIS Classification

Health hazard: 4

Chronic health hazard: *

Flammability: 1

SAFETY DATA SHEET

Cat# 1846-1, -5, PS-341

SDS DATE: Mar 26, 2012

Physical hazards: 0

NFPA Rating

Health Hazard: 4

Fire: 1

Reactivity Hazard: 0

Potential Health Effects

Inhalation: Very toxic if inhaled. May cause respiratory tract irritation.

Skin: Very toxic if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: Very toxic if swallowed.

SECTION 4: FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

If inhaled: If breathed in, move 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. Take victim immediately to hospital. Consult a physician.

In case of eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

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

5: FIRE-FIGHTING MEASURES

Condition of flammability: Not flammable or combustible.

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products: Hazardous combustion products formed under fire conditions— carbon oxides, nitrogen oxides.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear respiratory protection. Avoid dust formation. Avoid breathing vapors, mist, gas, or dust. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods for cleaning up: Pick up and arrange disposal without creating dust. Keep in suitable, closed containers for disposal.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection.

Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) 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

Face shield and safety glasses. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection

Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	PS-341
Appearance:	White to off-white solid
pH:	No data available
Water Solubility:	No data available

SAFETY DATA SHEET

Cat# 1846-1, -5, PS-341

SDS DATE: Mar 26, 2012

Other Solubility:	DMSO (200 mg/ml), EtOH (200 mg/ml)
Specific Gravity (g/ml):	No data available
Boiling Point (°C):	No data available
Melting Point (°C):	No data available
Flash Point (°C):	No data available
Ignition Temperature (°C):	No data available
Density:	No data available

SECTION 10: STABILITY AND REACTIVITY

Property	PS-341
Chemical stability	Stable under recommended storage conditions
Conditions to avoid:	Light, moisture
Materials to avoid:	Strong oxidizing agents
Hazardous decomposition products:	Carbon oxides, nitrogen oxides

SECTION 11: TOXICOLOGICAL INFORMATION

PS-341:

Acute toxicity: 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

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: Resulted in impaired fertility in animal studies. Developmental studies in rats and rabbits resulted in embryo/fetal death only at maternally toxic dosages, but no direct toxicity to the embryo/fetus.

Teratogenicity: no data available

Aspiration hazard: no data available

Potential Health Effects

Inhalation: Very toxic if inhaled. May cause respiratory tract irritation.

Skin: Very toxic if absorbed through skin. Causes skin irritation.

Eyes: Causes eye irritation.

Ingestion: Very toxic if swallowed.

Signs and Symptoms of Exposure: Prolonged or repeated exposure may cause fatigue and fever, and effects on the hematological (decreases in hemoglobin/anemia, blood counts and platelets), gastrointestinal (nausea, diarrhea, vomiting, abdominal pain), and nervous system (headache, peripheral neuropathy). May affect fertility and fetal development.

Synergistic effects: no data available

Additional information: RTECS: not available

SECTION 12: ECOLOGICAL INFORMATION

PS-341:

Persistence and degradability: no data available

Toxicity: 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

SECTION 13: DISPOSAL CONSIDERATIONS

Product: Observe all federal, state, and local environmental regulations.

Contaminated packaging: Dispose of as unused product.

SECTION 14: TRANSPORT INFORMATION

PS-341:

DOT (US): UN-number: 2811, Class: 6.1, Packing group: II; Proper shipping name: Toxic solids, organic, n.o.s. (PS-341); Marine pollutant: No; Poison inhalation hazard: No

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IMDG: UN-number: 2811, Class: 6.1, Packing group: II; EMS-No: F-A, S-A; Proper shipping name: TOXIC SOLID, ORGANIC, N.O.S. (PS-341); Marine pollutant: No

IATA: UN-number: 2811, Class: 6.1, Packing group: II; Proper shipping name: Toxic solid, organic, n.o.s. (PS-341)

SECTION 15: REGULATORY INFORMATION

PS-341:

OSHA Hazards: Irritant, Very toxic by ingestion, Very toxic by absorption, Very toxic by inhalation, Target organ effect, Reproductive hazard

DSL Status: All components of this product are on the Canadian DSL list.

SARA 302 Components: SARA 302: No chemical in this material are subject to the reporting requirements of SARA Title III, Section 302.

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 II, Section 313.

SARA 311/312 Hazards: Acute Health Hazard, Chronic Health Hazard

Massachusetts Right To Know Components: No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components: PS-341, CAS-No. 179324-69-7

New Jersey Right To Know Components: PS-341, CAS-No. 179324-69-7

California Prop. 65 Components: No data available

EU regulations

Component	Risk Phrases	Safety Phrases
PS-341	R26/27/28, R36/38, R48/23/24, R62, R63	S26, S28, S36/37/39, S38, S45, S53

SECTION 16: OTHER INFORMATION

OTHER INFORMATION:

PREPARATION 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. BioVision, Inc., shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.