



# SAFETY DATA SHEET

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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

### 1.1 Product identifiers

*Product name* : **U-46619**

*Product Number* : REF **107462**

*Brand* : Bio/Data Corporation

*CAS-No.* : 56985-40-1

### 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses:

For research use only - not for human or veterinary use.

### 1.3 Details of the supplier of the safety data sheet:

*Company* : Bio/Data Corporation  
155 Gibraltar Road  
Horsham, PA 19044  
UNITED STATES

*Telephone:* +1 215 441-4000

*Fax:* +1 215 443-8820

*Email:* [customer.service@biodatacorp.com](mailto:customer.service@biodatacorp.com)

*Web Site:* [www.biodatacorp.com](http://www.biodatacorp.com)

### 1.4 Emergency telephone

*Emergency Phone #:* Follow laboratory blood/ infectious hazard protocol  
+1 215 441-4000 (0830 – 1630)

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**An ISO 13485 Registered Company**

155 Gibraltar Road, Horsham, PA 19044 U.S.A.  
Worldwide: (215) 441-4000 U.S.A.: (800) 257-3282 Fax Worldwide: (215) 443-8820  
[www.biodatacorp.com](http://www.biodatacorp.com) e-mail: [customer.service@biodatacorp.com](mailto:customer.service@biodatacorp.com)

**SECTION 2: HAZARDS IDENTIFICATION**2.1 Classification of the substance or mixture:

GHS02 Flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.



GHS07

Eye Irrit. 2A H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

2.2 Label Elements:

GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS).

Hazard pictograms



GHS02



GHS07

Signal word:

Danger

Hazard-determining components of labeling:

Methyl acetate

2.3 Other Hazards:

Hazard statements

Highly flammable liquid and vapor.

Causes serious eye irritation.

May cause drowsiness or dizziness.

Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Ground/bond container and receiving equipment.

Use explosion-proof electrical/ventilating/lighting/equipment.

Use only non-sparking tools.

Take precautionary measures against static discharge.

Avoid breathing dust/fume/gas/mist/vapors/spray

Wash thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/protective clothing/eye protection/face protection.

If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Call a poison center/doctor if you feel unwell.

If eye irritation persists: Get medical advice/attention.

In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.

Store in a well-ventilated place. Keep container tightly closed.

Store in a well-ventilated place. Keep cool.

Store locked up.

Dispose of contents/container in accordance with local/regional/national/international regulations.

Classification system:

NFPA ratings (scale 0 - 4)



Health = 2

Fire = 3

Reactivity = 0

HMIS-ratings (scale 0 - 4)



Health = 2

Fire = 3

Reactivity = 0

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

### SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

#### 3.1 Substances

*Synonyms:* TX A<sub>2</sub>, U-46619 TX A<sub>2</sub>, 9,11-dideoxy-9 $\alpha$ ,11 $\alpha$ -methanoepoxy-prosta-5Z,13E-dien-1-oic acid; 9,11-dideoxy-9 $\alpha$ ,11 $\alpha$ -methanoepoxy PGF<sub>2</sub> $\alpha$ ; 9,11-dideoxy-9 $\alpha$ ,11 $\alpha$ -methanoepoxy Prostaglandin F<sub>2</sub> $\alpha$

*Molecular weight:* N / A

*CAS-No.:* 56985-40-1

*EC-No.:* N / A

#### 3.2 Mixtures

Chemical characterization: Mixtures

Description: Mixture of the substances listed below with nonhazardous additions.

Dangerous components:

CAS: 79-20-9	RTECS: AI9100000	Methyl acetate	99.0%
CAS: 56985-40-1	RTECS: MJ9681090	U-46619	1.0%

### SECTION 4: FIRST AID MEASURES

#### 4.1 Description of first-aid measures



General: Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air; consult doctor in case of complaints.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

After skin contact: Immediately rinse with water.

After swallowing: If symptoms persist consult doctor.

4.2 Most important symptoms and effects, both acute and delayed:

May cause anemia, cough, CNS depression, drowsiness, headache, heart damage, lassitude (weakness, exhaustion), liver damage, narcosis, reproductive effects, teratogenic effects.

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed:

No further relevant information available

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## SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

*Suitable extinguishing media:*

CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

*Unsuitable extinguishing media:*

Water with full jet

5.2 Special hazards arising from the substance or mixture:

Can release vapors that form explosive mixtures at temperatures at or above the flashpoint.

Container explosion may occur under fire conditions.

Emits toxic fumes under fire conditions.

Sensitive to static discharge.

Vapors can travel to a source of ignition and flash back.

5.3 Advice for firefighters:

No special measures required.

5.4 Further information:

Flammable as diluted in methyl acetate.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and materials for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation.

6.4 Reference to other sections:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

### Protective Action Criteria for Chemicals

PAC-1:	79-20-9	Methyl acetate	250 ppm
PAC-2:	79-20-9	Methyl acetate	1,700 ppm
PAC-3:	79-20-9	Methyl acetate	10000* ppm

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**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling:**

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

Information about protection against explosions and fires:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

**7.2 Conditions for safe storage, including any incompatibilities:**

Keep away from heat, sparks and flame.

Keep container tightly closed.

Store in accordance with information listed on the product insert.

*Storage conditions:*

Recommended temperature: store at -20 °C (± 5 °C)

Avoid light exposure and keep away from heat sources. Work in a well-ventilated workplace. Keep containers tightly closed and labelled with the name of the product. Avoid environmental release. Keep away from food and drinks.

Requirements to be met by storerooms and receptacles: Store in a cool location.

Information about storage in one common storage facility: Not required.

Further information about storage conditions:

Keep receptacle tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

**7.3 Specific end use(s):**

No further relevant information available.

**SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION**

Additional information about design of technical systems: No further data; see item 7.

**8.1 Control parameters**Ingredients with workplace control parameters:

Components with limit values that require monitoring at the workplace:

The following constituent is the only constituent of the product which has a PEL, TLV or other recommended exposure limit.

At this time, the remaining constituent has no known exposure limits.

79-20-9 Methyl acetate

PEL Long-term value: 610 mg/m<sup>3</sup>, 200 ppm

REL Short-term value: 760 mg/m<sup>3</sup>, 250 ppm

Long-term value: 610 mg/m<sup>3</sup>, 200 ppm

TLV Short-term value: 757 mg/m<sup>3</sup>, 250 ppm

Long-term value: 606 mg/m<sup>3</sup>, 200 ppm

Additional information: The lists that were valid during the creation were used as basis.

**8.2 Exposure controls:**Personal protective equipment:

General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.



Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:



Tightly sealed goggles

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties:

#### ***Appearance***

Form:	Liquid
Color:	According to product specification
Odor:	Characteristic
Structural Formula:	C <sub>21</sub> H <sub>34</sub> O <sub>4</sub>
Molecular Weight:	350.5

Odor threshold:	Not determined.
Formulation	A solution in methyl acetate
pH-Value	Not determined.
<b><i>Change in condition</i></b>	
Melting point/Melting range:	-98.05 °C (-144.5 °F)
Boiling point/Boiling range:	57 °C (134.6 °F)
Flash point:	-13 °C (8.6 °F)
Flammability (solid, gaseous):	Not applicable
Ignition temperature:	455 °C (851 °F)
Decomposition temperature:	Not determined.
Auto igniting:	Product is not self igniting.
Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
Explosion limits:	Lower: 3.1 Vol % Upper: 16 Vol %
Vapor pressure at 20 °C (68 °F):	220 hPa (165 mm Hg)
Density at 20 °C (68 °F):	0.93 g/cm <sup>3</sup> (7.76085 lbs/gal)
Bulk density:	1 kg/m <sup>3</sup>
Relative density:	Not determined.
Vapor density:	Not determined.
Evaporation rate:	Not determined.
Solubility in / Miscibility with Water at 20 °C (68 °F):	330 g/l
Partition coefficient (n-octanol/water):	Not determined.
<b><i>Viscosity</i></b>	
Dynamic:	Not determined.
Kinematic:	Not determined.
<b><i>Solvent content</i></b>	
Organic solvents:	99.0 %
VOC content:	0.00 % (0.0 g/l / 0.00 lb/gal)
Solids content:	0.0 %

9.2 Other safety information:

No further relevant information available.

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**SECTION 10: STABILITY AND REACTIVITY**10.1 Reactivity:

No further relevant information available.

10.2 Chemical stability:

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions:

No dangerous reactions known.

10.4 Conditions to avoid:

No further relevant information available.

10.5 Incompatible materials:

No further relevant information available.

10.6 Hazardous decomposition products:

No dangerous decomposition products known.

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**SECTION 11: TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects:

*LD/LC50 values that are relevant for classification*

**ATE (Acute Toxicity Estimate)**

Oral	LD50	3,742 mg/kg (rabbit)
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**79-20-9 Methyl acetate**

Oral	LD50	>5,000 mg/kg (rat) 3,705 mg/kg (rabbit)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	TCLO	15,000 mg/m <sup>3</sup> (hmn)
Irritation of skin	Irritation	500 mg/24h (rabbit)
	Irritation	40 mg/kg/24h (rabbit)
Irritation of eyes	Irritation	100 mg/24h (rabbit)
	Intraperitoneal LD50	70 mg/kg (mouse)

*Primary irritant effect:*

on the skin:	No irritant effect.
on the eye:	Irritating effect.
Sensitization:	No sensitizing effects known.

*Additional toxicological information:*

The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

*Carcinogenic categories*

IARC (International Agency for Research on Cancer):	None of the ingredients is listed.
NTP (National Toxicology Program):	None of the ingredients is listed.
OSHA-Ca (Occupational Safety & Health Administration):	None of the ingredients is listed.

**11.2 Additional Information**

No further relevant information available.

**SECTION 12: ECOLOGICAL INFORMATION**

12.1	<u>Toxicity</u>	:	No further relevant information available.
12.2	<u>Persistence and degradability</u>	:	No further relevant information available.

12.3 Bio accumulative potential : No further relevant information available.

12.4 Mobility in soil : No further relevant information available.

General notes: Water hazard class 1 (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

12.5 Results of PBT and vPvB assessment : PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects : No further relevant information available.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

#### *Uncleaned packaging*

Recommendation: Disposal must be made according to official regulations.

### SECTION 14: TRANSPORT INFORMATION

UN-Number

DOT, IMDG, IATA

UN1231

UN proper shipping name

DOT, IATA

IMDG

Methyl acetate solution

METHYL ACETATE solution

Transport hazard class(es)

DOT



Class

Label

3 Flammable liquids

3

## IMDG, IATA



Class	3 Flammable liquids
Label	3
Packing group	
DOT, IMDG, IATA	II
Environmental hazards:	Not applicable.
Special precautions for user Warning:	Flammable liquids
Hazard identification number (Kemler code):	33
EMS Number:	F-E,S-D
Stowage Category:	B
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
DOT	
Quantity limitations:	On passenger aircraft/rail: 5 L
On cargo aircraft only:	60 L
IMDG	
Limited quantities (LQ):	1L
Excepted quantities (EQ) Code:	E2
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 500 ml
IATA	
Remarks:	When sold in quantities of less than or equal to 1 mL, or 1 g, with an Excepted Quantity Code of E1, E2, E4, or E5, this item meets the De Minimis Quantities exemption, per IATA 2.6.10. Therefore, packaging does not have to be labeled as Dangerous Goods/Excepted Quantity.
UN "Model Regulation":	UN 1231 METHYL ACETATE SOLUTION, 3, II

## SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

## Sara

Section 355 (extremely hazardous substances):	None of the ingredients is listed.
Section 313 (Specific toxic chemical listings):	None of the ingredients is listed.
TSCA (Toxic Substances Control Act):	79-20-9 Methyl acetate ACTIVE
Hazardous Air Pollutants	None of the ingredients is listed.

## Proposition 65

Chemicals known to cause cancer:	None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for females:	None of the ingredients is listed.
Chemicals known to cause reproductive toxicity for males:	None of the ingredients is listed.
Chemicals known to cause developmental toxicity:	None of the ingredients is listed.

## Carcinogenic categories

EPA (Environmental Protection Agency)	None of the ingredients is listed.
TLV (Threshold Limit Value established by ACGIH)	None of the ingredients is listed.
NIOSH-Ca (National Institute for Occupational Safety and Health)	None of the ingredients is listed.

## GHS label elements:

The product is classified and labeled according to the Globally Harmonized System (GHS).

## Hazard pictograms



GHS02



GHS07

Signal word: Danger

Hazard-determining components of labeling: Methyl acetate

## Hazard statements

Highly flammable liquid and vapor.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.

## Precautionary statements

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.  
Ground/bond container and receiving equipment.  
Use explosion-proof electrical/ventilating/lighting/equipment.  
Use only non-sparking tools.  
Take precautionary measures against static discharge.

Avoid breathing dust/fume/gas/mist/vapors/spray  
Wash thoroughly after handling.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves/protective clothing/eye protection/face protection.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
Call a poison center/doctor if you feel unwell.  
If eye irritation persists: Get medical advice/attention.  
In case of fire: Use for extinction: CO<sub>2</sub>, powder or water spray.  
Store in a well-ventilated place. Keep container tightly closed.  
Store in a well-ventilated place. Keep cool.  
Store locked up.  
Dispose of contents/container in accordance with local/regional/national/international regulations.

Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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## SECTION 16: OTHER INFORMATION

### Further information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Department issuing SDS: Environment protection department.

Preparation Date: April 1, 2023

Revision Level and Date: Revision A, February 1, 2024

### Abbreviations and acronyms:

IMDG:	International Maritime Code for Dangerous Goods
DOT:	US Department of Transportation
IATA:	International Air Transport Association
ACGIH:	American Conference of Governmental Industrial Hygienists
EINECS:	European Inventory of Existing Commercial Chemical Substances
ELINCS:	European List of Notified Chemical Substances
CAS:	Chemical Abstracts Service (division of the American Chemical Society)
NFPA:	National Fire Protection Association (USA)
HMIS:	Hazardous Materials Identification System (USA)
VOC:	Volatile Organic Compounds (USA, EU)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
PBT:	Persistent, Bio accumulative and Toxic



vPvB:	very Persistent and very Bio accumulative
NIOSH:	National Institute for Occupational Safety
OSHA:	Occupational Safety & Health
TLV:	Threshold Limit Value
PEL:	Permissible Exposure Limit
REL:	Recommended Exposure Limit
Flam. Liq. 2:	Flammable liquids – Category 2
Eye Irrit. 2A:	Serious eye damage/eye irritation – Category 2A
STOT SE 3:	Specific target organ toxicity (single exposure) – Category 3

### Information related to the Regulation EC/1272/2008

This product is intended for **IN VITRO diagnostic use only**. NOT FOR INJECTION OR INGESTION. The information herein is believed to be correct as of the date hereof and excludes any guarantee related with the final use given to the product, being the recipient the last responsible for observing the local laws applicable in each case.

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