



This safety data sheet was created pursuant to the requirements of: Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

## 72372 - 16,16-Dimethyl Prostaglandin E2

Revision Date 11-Jan-2024 Revision Number 3

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

### 1.1. Product identifier

Document Number	DX21109	
Product Name	16,16-Dimethyl Prostaglandin E2	
Synonym	9-oxo-11α,15R-dihydroxy-16,16-dimethyl-prosta-5Z,13E-dien-1-oic acid; 16,16-dimethyl PGE2	
Pure substance/mixture	Mixture	
Contains (Z)-7-[(1R,2R,3R)-3-hydroxy acetate	-2-[(E,3R)-3-hydroxy-4,4-dimethyloct-1-enyl]-5-oxocyclopentyl]hept-5-enoic acid, Methyl	
Molecular weight	380.5	
1.2. Relevant identified uses of the	substance or mixture and uses advised against	
Recommended Use	Laboratory chemicals	
Uses advised against	No information available	
1.3. Details of the supplier of the sa	fety data sheet	
Manufacturer STEMCELL Technologies SARL 40 Rue des Berges, Miniparc Polytec, Bâtiment Sirocco, 38000 Grenoble, France +33 (0) 4 76 04 75 30 STEMCELL Technologies Germany GmbH Stolberger Str. 200, 50933, Köln, Germany +33 (0) 4 76 04 75 30 STEMCELL Technologies UK Ltd. Building 7100, Cambridge Research Park, Beach Drive, Waterbeach, Cambridge, UK, CB25 9TL +33 (0) 4 76 04 75 30 For further information, please contact		
1.4. Emergency telephone number		
Emergency Telephone	No information available	
Emergency Telephone - §45 - (EC)	1272/2008	

Emergency Telephone - §45 - (EC)1272/2008		
Europe	112	

## Section 2: HAZARDS IDENTIFICATION





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### 2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008	
Acute toxicity - Oral	Category 4 - (H302)
Acute toxicity - Dermal	Category 4 - (H312)
Acute toxicity - Inhalation (Dusts/Mists)	Category 4 - (H332)
Serious eye damage/eye irritation	Category 2 - (H319)
Specific target organ toxicity (single exposure)	Category 3 - (H336)
Flammable liquids	Category 2 - (H225)

### 2.2. Label elements

Contains (Z)-7-[(1R,2R,3R)-3-hydroxy-2-[(E,3R)-3-hydroxy-4,4-dimethyloct-1-enyl]-5-oxocyclopentyl]hept-5-enoic acid, Methyl acetate



Signal word Danger

## Hazard statements

Hazard statements

- H302 Harmful if swallowed
- H312 Harmful in contact with skin
- H319 Causes serious eye irritation
- H332 Harmful if inhaled
- H336 May cause drowsiness or dizziness
- H303 May be harmful if swallowed
- H313 May be harmful in contact with skin
- H333 May be harmful if inhaled
- H225 Highly flammable liquid and vapor

#### Precautionary Statements - EU (§28, 1272/2008)

P280 - Wear protective gloves/protective clothing/eye protection/face protection

- P321 Specific treatment (see supplemental instructions on the administration of antidotes on this label)
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
- P370 + P378 In case of fire: Use .? to extinguish

#### Additional information

This product requires tactile warnings if supplied to the general public Placed on the market in aerosol containers or in containers fitted with a sealed spray attachment

#### 2.3. Other hazards

No information available





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## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1 Synonym

Not applicable

#### 3.2 Mixtures

Chemical name	EC No.	CAS No.	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]	REACH Registration Number
Methyl acetate	-	79-20-9	99	Flam. Liq. 2 (H225) Eye Irrit. 2A (H319) STOT SE 3 (H336)	No data available
(Z)-7-[(1R,2R,3R)-3-hydroxy-2-[(E,3R )-3-hydroxy-4,4-dimethyloct-1-enyl]-5 -oxocyclopentyl]hept-5-enoic acid		39746-25-3	1	Acute Tox. 4 (H302) Acute Tox. 4 (H312) Acute Tox. 4 (H332)	No data available

#### Full text of H- and EUH-phrases: see section 16

## Section 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.
Inhalation	IF exposed or concerned: Get medical advice/attention. Remove to fresh air. If symptoms persist, call a physician. If breathing has stopped, give artificial respiration. Get medical attention immediately.
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician.
Ingestion	Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Get medical attention.
Self-protection of the first aider	Remove all sources of ignition. Avoid contact with skin, eyes or clothing. Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Avoid breathing vapors or mists. Use





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# SAFETY DATA SHEET

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personal protective equipment as required. See section 8 for more information. 4.2. Most important symptoms and effects, both acute and delayed Burning sensation. Inhalation of high vapor concentrations may cause symptoms like Symptoms headache, dizziness, tiredness, nausea and vomiting. Coughing and/ or wheezing. Difficulty in breathing. 4.3. Indication of any immediate medical attention and special treatment needed Note to physicians Treat symptomatically. Section 5: FIRE-FIGHTING MEASURES 5.1. Extinguishing media Dry chemical. Carbon dioxide (CO2). Water spray. Alcohol resistant foam. **Suitable Extinguishing Media Unsuitable Extinguishing Media** CAUTION: Use of water spray when fighting fire may be inefficient. 5.2. Special hazards arising from the substance or mixture Specific hazards arising from the Risk of ignition. Keep product and empty container away from heat and sources of ignition. chemical In the event of fire, cool tanks with water spray. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. 5.3. Advice for firefighters Firefighters should wear self-contained breathing apparatus and full firefighting turnout Special protective equipment for fire-fighters gear. Use personal protection equipment.

## Section 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	See section 8 for more information. Keep people away from and upwind of spill/leak. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Pay attention to flashback. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Do not touch or walk through spilled material. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Ensure adequate ventilation. Avoid breathing vapors or mists. Use personal protective equipment as required.
Other Information	Ventilate the area. Refer to protective measures listed in Sections 7 and 8.
For emergency responders	Use personal protection recommended in Section 8.





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#### 6.2. Environmental precautions

Environmental precautions	Refer to protective measures listed in Sections 7 and 8. Prevent product from entering drains. Prevent further leakage or spillage if safe to do so.	
6.3. Methods and material for containment and cleaning up		
Methods for containment	Stop leak if you can do it without risk. Do not touch or walk through spilled material. A vapor suppressing foam may be used to reduce vapors. Dike far ahead of spill to collect runoff water. Keep out of drains, sewers, ditches and waterways. Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal.	
Methods for cleaning up	Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.	
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.	
6.4. Reference to other sections		
Reference to other sections	See section 8 for more information. See section 13 for more information.	

# Section 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Advice on safe handling	Use personal protection equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use grounding and bonding connection when transferring this material to prevent static discharge, fire or explosion. Use with local exhaust ventilation. Use spark-proof tools and explosion-proof equipment. Keep in an area equipped with sprinklers. Use according to package label instructions. Avoid contact with skin, eyes or clothing. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing vapors or mists. In case of insufficient ventilation, wear suitable respiratory equipment. Do not eat, drink or smoke when using this product.	
General hygiene considerations	Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.	
7.2. Conditions for safe storage, including any incompatibilities		
Storage Conditions	Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Do not store near combustible materials. Keep in an area equipped with sprinklers. Store in accordance with information listed on the Product Information Sheet (PIS). Store in accordance with local	

regulations. Store locked up. Keep out of the reach of children.





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### 7.3. Specific end use(s)

Identified Uses

Risk Management Methods (RMM) The information required is contained in this Material Safety Data Sheet.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters	
Exposure Limits	This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
Derived No Effect Level (DNEL)	No information available.
Predicted No Effect Concentration (PNEC)	No information available.
8.2. Exposure controls	
Personal protective equipment	
Eye/face protection	Tight sealing safety goggles.
Hand protection	Impervious gloves. Wear suitable gloves.
Skin and body protection	Chemical resistant apron. Antistatic boots. Long sleeved clothing. Wear suitable protective clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Contaminated work clothing should not be allowed out of the workplace. Regular cleaning of equipment, work area and clothing is recommended. Wash hands before breaks and immediately after handling the product. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product.
Environmental exposure controls	No information available.





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# Section 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical a Physical state Appearance Color Odor Odor Odor threshold	and chemical properties Liquid No information available No information available No data available. No data available	
Property_	Values	Remarks • Method
рН	No data available	None known
Melting point / freezing point	-98 °C	
Boiling point / boiling range	57 °C	
Flash point	-13 °C	Closed Cup
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		None known
Upper flammability limit:	16% at 25.0°C	
Lower flammability limit:	3.1% at 25.0°C	
Vapor pressure	220 hPa (165 mm Hg) [20 °C (68 °F)]	
Vapor density	No data available	None known
Relative density	No data available	
Water solubility	330 g/L [20 °C (68 °F)]	
Solubility(ies)	DMF: >100 mg/mL; DMSO: >100	None known
	mg/mL; Ethanol: >100 mg/mL; PBS pl	4
	7.2: >5 mg/mL	
Partition coefficient	No data available	None known
Autoignition temperature	No data available	
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No information available	
Oxidizing properties	No information available	
9.2. Other information Softening point Molecular weight Molecular formula VOC Content (%) Liquid Density Bulk density	No information available 380.5 C22H36O5 No information available No information available 1 kg/m <sup>3</sup>	

## Section 10: STABILITY AND REACTIVITY

### 10.1. Reactivity





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Reactivity	No information available.	
10.2. Chemical stability		
Stability	Stable under recommended transport or storage conditions.	
Explosion data Sensitivity to Mechanical Impac	t None.	
Sensitivity to Static Discharge 10.3. Possibility of hazardous reacti		
Possibility of hazardous reactions	None under normal processing.	
Hazardous polymerization	Hazardous polymerization does not occur.	
10.4. Conditions to avoid		
Conditions to avoid	Heat, flames and sparks. Excessive heat.	
10.5. Incompatible materials		
Incompatible materials	None known based on information supplied.	
10.6. Hazardous decomposition products		

Hazardous decomposition products None known based on information supplied.

## Section 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Information on likely routes of exposure

**Product Information** 

Inhalation	May cause irritation of respiratory tract. May cause drowsiness or dizziness. Specific test data for the substance or mixture is not available. Harmful by inhalation. (based on components).
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Skin contact	Specific test data for the substance or mixture is not available. May cause irritation. Prolonged contact may cause redness and irritation. May be harmful if absorbed through





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	the skin. Harmful in contac	t with skin. (based on components	s).	
Ingestion		Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Specific test data for the substance or mixture is not available. Harmful if swallowed. (based on components).		
Symptoms related to the physic	cal, chemical and toxicological	characteristics		
Symptoms		May cause redness and tearing of the eyes. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting. Coughing and/ or wheezing.		
Numerical measures of toxicity	_			
Acute toxicity				
The following values are calcul ATEmix (oral) ATEmix (dermal) ATEmix (inhalation-dust/mis	ed based on chapter 3.1 of the GHS document 500.00 mg/kg 1,100.00 mg/kg 1.50 mg/l			
100 % of the mixture consists 100 % of the mixture consists 100 % of the mixture consists	100 % of the mixture consi of ingredient(s) of unknown acute of ingredient(s) of unknown acut of ingredient(s) of unknown acut of ingredient(s) of unknown acute of ingredient(s) of unknown acute	te dermal toxicity. te inhalation toxicity (gas). te inhalation toxicity (vapor).	xicity.	
Product Information				
Oral LD50 Dermal LD50	>5,000 mg/kg (Rat); 3,705 >5,000 mg/kg (Rabbit)	>5,000 mg/kg (Rat); 3,705 mg/kg (Rabbit); >5,000 mg/kg (Rabbit)		
Component Information				
Chemical name Methyl acetate	Oral LD50 >5,000 mg/kg (Rat) 3,705 mg/kg (Rabbit)	Dermal LD50 >5,000 mg/kg (Rabbit)	Inhalation LC50	
Delayed and immediate effects	as well as chronic effects from	n short and long-term exposure	<u></u>	
Skin corrosion/irritation Product Information	May cause skin irritation.			
Serious eye damage/eye irritation	on Classification based on da	Classification based on data available for ingredients. Irritating to eyes.		
Respiratory or skin sensitizatio	No information available.			





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Product Information			
Germ cell mutagenicity	No information available.		
Product Information			
Carcinogenicity	No information available.		
Product Information			
Reproductive toxicity	No information available.		
	Product Information		
STOT - single exposure	May cause drowsiness or dizziness.		
Product Information			
STOT - repeated exposure	No information available.		
Product Information			
Aspiration hazard	No information available.		
Section 12: ECOLOGICAL INFORMATION			
12.1. Toxicity			
Ecotoxicity	The environmental impact of this product has not been fully investigated.		
Unknown aquatic toxicity	Contains 0 % of components with unknown hazards to the aquatic environment.		
Product Information			
12.2. Persistence and degradability	<u>,                                     </u>		
Persistence and degradability	No information available.		
12.3. Bioaccumulative potential			
Bioaccumulation	No information available.		
12.4. Mobility in soil			
Mobility in soil	No information available.		
12.5. Results of PBT and vPvB assessment			
PBT and vPvB assessment	No information available.		





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#### 12.6. Other adverse effects

Other adverse effects

No information available.

### Section 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from residues/unused products	Should not be released into the environment. Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Empty containers pose a potential fire and explosion hazard. Do not cut, puncture of weld containers.

## Section 14: TRANSPORT INFORMATION

Note:

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.

IMDG 14.1 UN Number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing Group 14.5 Marine pollutant 14.6 Special Provisions 14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code	UN1231 METHYL ACETATE solution 3 - FLAMMABLE LIQUID II Not applicable None No information available
<u>RID</u> 14.1 UN Number 14.2 UN proper shipping name 14.3 Transport hazard class(es) 14.4 Packing Group 14.5 Environmental hazard 14.6 Special Provisions	Not regulated Not regulated Not regulated Not regulated Not applicable None
<u>ADR</u> 14.1 UN Number 14.2 UN proper shipping name 14.3 Transport hazard class(es)	Not regulated Not regulated Not regulated





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14.5 Environmental hazard No	ot regulated ot applicable one
14.2 UN proper shipping nameMe14.3 Transport hazard class(es)3 -14.4 Packing GroupII14.5 Environmental hazardNo	N1231 ethyl Acetate Solution · FLAMMABLE LIQUID ot applicable one

## Section 15: REGULATORY INFORMATION

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

#### **European Union**

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

#### Authorizations and/or restrictions on use:

This product does not contain substances subject to authorization (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

#### **Persistent Organic Pollutants**

Not applicable

#### Dangerous substance category per Seveso Directive (2012/18/EU)

P5a - FLAMMABLE LIQUIDS P5b - FLAMMABLE LIQUIDS P5c - FLAMMABLE LIQUIDS

#### Ozone-depleting substances (ODS) regulation (EC) 1005/2009 Not applicable

### International Inventories

TSCA	Does not comply
DSL/NDSL	Does not comply
EINECS/ELINCS	Does not comply
ENCS	Does not comply
IECSC	Does not comply
KECL	Does not comply





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# PICCS Does not comply AICS Does not comply

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
 DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List
 EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances
 ENCS - Japan Existing and New Chemical Substances
 IECSC - China Inventory of Existing Chemical Substances
 KECL - Korean Existing and Evaluated Chemical Substances
 PICCS - Philippines Inventory of Chemicals and Chemical Substances
 AICS - Australian Inventory of Chemical Substances

### 15.2. Chemical safety assessment

**Chemical Safety Report** 

No information available

## Section 16: OTHER INFORMATION

#### Key or legend to abbreviations and acronyms used in the safety data sheet

#### Full text of H-Statements referred to under section 3

H225 - Highly flammable liquid and vapor

H302 - Harmful if swallowed

H312 - Harmful in contact with skin

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

#### Legend

SVHC: Substances of Very High Concern for Authorization:

### Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWATWA (time-weighted average)STELSTEL (Short Term Exposure Limit)CeilingMaximum limit value\*Skin designation

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This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text. STEMCELL Technologies Inc. shall not be held liable for any





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damage resulting from handling or from contact with the product.