

## Chemical Safety Data Sheet MSDS / SDS

**20-ETHYL PROSTAGLANDIN E2**

Revision Date:2026-05-31 Revision Number:1

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****Product identifier**

Product name : 20-ETHYL PROSTAGLANDIN E2  
CBnumber : CB3150393  
CAS : 37492-24-3  
Synonyms : NXMMZTNQIJBMC-QKIVIXBWSA-N;9-OXO-11ALPHA,15S-DIHYDROXY-20A,20B-DIHOMOPROSTA-5Z,13E-DIEN-1-OIC ACID

**Relevant identified uses of the substance or mixture and uses advised against**

Relevant identified uses : For R&D use only. Not for medicinal, household or other use.  
Uses advised against : none

**Company Identification**

Company : Chemicalbook  
Address : Building 1, Huihuang International, Shangdi 10th Street, Haidian District, Beijing  
Telephone : 010-86108875

**SECTION 2: Hazards identification****GHS Label elements, including precautionary statements**

Symbol(GHS)



Signal word

Danger

**Precautionary statements**

No data available

**Hazard statements**

No data available

**SECTION 3: Composition/information on ingredients****Substance**

Product name : 20-ETHYL PROSTAGLANDIN E2  
Synonyms : NXMMZTNQIJBMC-QKIVIXBWSA-N;9-OXO-11ALPHA,15S-DIHYDROXY-20A,20B-DIHOMOPROSTA-

5Z,13E-DIEN-1-OIC ACID

CAS : 37492-24-3  
MF : C22H36O5  
MW : 380.52

---

## SECTION 4: First aid measures

### Description of first aid measures

#### General information

Immediately remove any clothing soiled by the product.

#### After inhalation

Supply fresh air; consult doctor in case of complaints.

#### After skin contact

Immediately rinse with water.

#### After eye contact

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

#### After swallowing

If symptoms persist consult doctor.

#### Most important symptoms and effects, both acute and delayed

No further relevant information available.

#### Indication of any immediate medical attention and special treatment needed

No further relevant information available.

---

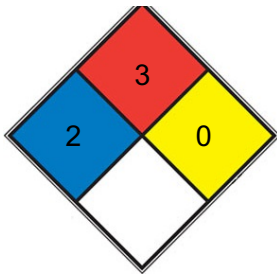
## SECTION 5: Firefighting measures

### FIRE-FIGHTING MEASURES

Fire-fighting measure	Details
Suitable extinguishing agents	CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. For safety reasons unsuitable extinguishing agents: Water with full jet
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.
Protective equipment	No special measures required.

### NFPA 704





HEALTH 2 Intense or continued but not chronic exposure could cause temporary incapacitation or possible residual injury (e.g. [diethyl ether](#), ammonium phosphate, iodine)

FIRE 3 Liquids and solids (including finely divided suspended solids) that can be ignited under almost all ambient temperature conditions. Liquids having a flash point below 22.8 °C (73 °F) and having a boiling point at or above 37.8 °C (100 °F) or having a flash point between 22.8 and 37.8 °C (73 and 100 °F). (e.g. gasoline, [acetone](#))

REACT 0 Normally stable, even under fire exposure conditions, and is not reactive with water (e.g. helium, [N<sub>2</sub>](#))

SPEC.

HAZ.

## SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

### Environmental precautions

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

### Methods and material for containment and cleaning up

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

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

### 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 1 000\* ppm

### 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.

---

## SECTION 7: Handling and storage

### 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.

### Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

Store in accordance with information listed on the product insert.

### Storage

Store in accordance with information listed on the product insert.

### 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.

### Specific end use(s)

No further relevant information available.

---

## SECTION 8: Exposure controls/personal protection

### Control parameters

Components with limit values that require monitoring at the workplace:

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.

## **Exposure controls**

### **Appropriate engineering controls**

No further data; see section 7.

### **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

---

## **SECTION 9: Physical and chemical properties**

### **Information on basic physicochemical properties**

#### **Physical State**

Liquid

**Color**

According to product specification

**Odor**

Characteristic

**Structural Formula**

C<sub>22</sub>H<sub>36</sub>O<sub>5</sub>

**Molecular Weight**

380.5 g/mol

**Storage Buffer****Odor Threshold**

Not determined.

**Formulation**

A solution in methyl acetate

**Melting point/Melting range**

-98 °C (-144.4 °F)

**Boiling point/Boiling range**

57 °C (134.6 °F)

**Flammability**

Highly flammable.

**Explosion limits**

Lower: 3.1 Vol %

Upper: 16 Vol %

**Flash point**

-13 °C (8.6 °F)

**Auto igniting**

454 °C (849.2 °F)

**Decomposition temperature**

Not determined.

**pH**

Not determined.

**Viscosity**

**Kinematic**

Not determined.

**SOLUBILITY**

DMF: 30 mg/ml; DMSO: 20 mg/ml; Ethanol: 20 mg/ml; PBS (pH 7.2): 125 µg/ml

**Dynamic**

at 20 °C (68 °F): 0.381 mPas

**Solubility in / Miscibility with**

DMF: 30 mg/ml; DMSO: 20 mg/ml; Ethanol: 20 mg/ml; PBS (pH 7.2): 125 µg/ml

**Water at 20 °C (68 °F)**

330 g/l

**Partition coefficient (n-octanol/water)**

Not determined.

**Vapor Pressure at 20 °C (68 °F)**

220 hPa (165 mm Hg)

**Vapor Pressure at 50 °C (122 °F)**

800 hPa (600 mm Hg)

**Density at 20 °C (68 °F)**

0.93 g/cm<sup>3</sup> (7.76085 lbs/gal)

**Relative Density**

1.119±0.06 g/cm<sup>3</sup>(Predicted)

**Vapor Density**

Not determined.

**Particle characteristics**

Not applicable.

**Other information****Appearance****Form**

Liquid

**Important information on protection of health and environment, and on safety.**

**Ignition temperature**

Product is not selfigniting.

### **Danger of explosion**

Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

### **Organic solvents**

99.0 %

### **VOC content**

0.00 % 0.0 g/l / 0.00 lb/gal

### **Solids content**

0.0 %

### **Change in condition**

### **Evaporation Rate**

Not determined.

---

## SECTION 10: Stability and reactivity

### **Reactivity**

No further relevant information available.

### **Chemical stability**

### **Thermal decomposition / conditions to be avoided**

No decomposition if used according to specifications.

### **Possibility of hazardous reactions**

No dangerous reactions known.

### **Conditions to avoid**

No further relevant information available.

### **Incompatible materials**

No further relevant information available.

### **Hazardous decomposition products**

No dangerous decomposition products known.

---

## SECTION 11: Toxicological information

### **RTECS Number**

## Information on toxicological effects

### Acute toxicity

LD/LC50 values that are relevant for classification:

Substance / Estimate	Route	Endpoint	Value
79-20-9 Methyl acetate	Oral	LD50	6,482 mg/kg (rat)
79-20-9 Methyl acetate	Inhalative	LC50/4 h	>49.2 mg/l (rabbit)

### 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

### Interactive effects

No interactive effects between components are known.

### 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.

### Alternative sources for toxicological information

No non-standard sources for toxicological information were used.

---

## SECTION 12: Ecological information

### Toxicity

#### Aquatic toxicity

No further relevant information available.

#### **Persistence and degradability**

No further relevant information available.

#### **Bioaccumulative potential**

No further relevant information available.

#### **Mobility in soil**

No further relevant information available.

#### **Results of PBT and vPvB assessment**

##### **PBT**

Not applicable.

##### **vPvB**

Not applicable.

##### **PBT:**

Not applicable.

##### **vPvB:**

Not applicable.

#### **Other adverse effects**

#### **Additional ecological information**

#### **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.

---

## SECTION 13: Disposal considerations

#### **Waste treatment methods**

##### **Recommendation**

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

#### **Uncleaned packagings**

##### **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 Methyl acetate solution

IMDG METHYL ACETATE solution

### Transport hazard class(es)

#### DOT

Class: 3 Flammable liquids

Label: 3

#### IMDG, IATA

Class: 3 Flammable liquids

Label: 3

### Packing group

DOT, IMDG, IATA II

### Environmental hazards

Not applicable.

### 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.

## Special precautions for user

Warning: Flammable liquids

## Hazard identification number (Kemler code)

33

## EMS Number

F-E, S-D

## Stowage Category

B

## 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

No further relevant information available.

### 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.
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)

None of the ingredients is listed.

## **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

### **Chemical safety assessment**

A Chemical Safety Assessment has not been carried out.

---

## **SECTION 16: Other information**

### **Abbreviations and acronyms**

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

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)

HMS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Flammable liquids 2: Flammable liquids – Category 2

Eye irritation 2A: Serious eye damage/eye irritation – Category 2A

Specific target organ toxicity (single exposure) 3: Specific target organ toxicity (single exposure) – Category 3

#### **Disclaimer:**

The information in this MSDS is only applicable to the specified product, unless otherwise specified, it is not applicable to the mixture of this product and other substances. This MSDS only provides information on the safety of the product for those who have received the appropriate professional training for the user of the product. Users of this MSDS must make independent judgments on the applicability of this SDS. The authors of this MSDS will not be held responsible for any harm caused by the use of this MSDS.