

## RUBRIQUE 1: Identification

### 1.1 Identification

Product Name: **Uranyless-E 30%ethanol**

Product Code: 11000E-30, 11000E-200

### 1.2 Relevant identified uses of substance or mixture and not recommended uses

Contrast agent for electron microscopy guaranteed uranium free.

### 1.3 Information about the security data sheet provider

Company: em-grade.com distributed by  
Delta  
Microscopies

22bis, Saint-Ybars Road  
31190 MAURESSAC - FRANCE

Phone: (33) 05 61 73 60 14

Fax: (33) 05 61 80 78 53

Email address: [contact@em-grade.com](mailto:contact@em-grade.com)

### 1.4 Emergency call number

Emergency Call Number in France: 01 45 42 59 59 (ORFILA)

## RUBRIQUE 2: Identification of hazards

### 2.1 Classification of substance or mixture:



**GHS07**

Skin corr. 2  
Eye Dam. 2  
Stot S e 3

**H315**

**H319**

**H335**

Causes an irritation skin  
Causes a severe irritation of the eyes  
May irritate the respiratory tract



**GHS02**

Flam.liq.2  
Eye Dam. 2

**H225**

**H319**

Causes serious eye irritation

### 2.2 Labeling items:

Etiquetage in accordance with the regulation (EC) No 1272/2008 [EU-GHS / CLP]



Pictogram :

Signal word : Danger

Hazard statement :

H225 : Highly flammable liquid and vapour

H315 : Causes skin irritation.

H319 : Causes serious eye irritation.

H335 : May irritate the respiratory tract

Tips caution :

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261 Avoid breathing dust / fume / gas / mist / vapors / spray.

P305 + P351 + P338 IF IN EYES : Rinse cautiously with water for several minutes. Remove contact lenses if the victim is wearing them and they can be easily removed. Continue to rinse.

### 2.3 Other dangers:

Results of PBT and vPvB evaluations: Not applicable

## RUBRIQUE 3: Composition/component information

### 3.1 Substances:

not applicable

### 3.2 Mixture:

Mixture lanthanides <3%.

Formula : not specified

Molecular weight : not specified

Components	CAS number	EC number	%mass
Mixture acetate lanthanides			< 3
Ethanol	64-17-5	200-578-6	30

## RUBRIQUE 4: First aid

## 4.1 Description of first aid

**General advice :** Consult a physician. Show this safety data sheet to the doctor in attendance.

**In case of inhalation :** Transport the person out of the contaminated area. In case of respiratory arrest, give artificial respiration. See a doctor.

**In case of skin contact :** The aver soap with a large quantity of water. If irritation develops, contact a physician.

**In case in eyes :** Remove contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

**If swallowed :** Do not induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. See a doctor

## 4.2 Main symptoms and effects, acute and delayed

To our knowledge, the chemical, physical and toxicological properties have not been fully investigated

## 4.3 Indications of any immediate medical care and special treatment required

Data not available

## RUBRIQUE 5: Firefighting measures

### 5.1 Ways to extinguish

The product is neither flammable nor explosive. Use extinguishing media appropriate to local conditions and the surrounding environment.

### 5.2 Specific hazards resulting from substance or mixture

Oxides of carbon, oxides of lanthanides

### 5.3 Advice to firefighters

Porter a breathing apparatus if necessary

## RUBRIQUE 6: Measures in case of accidental dispersal

### 6.1 Individual precautions, protective equipment and emergency procedures

Use personal protective equipment . Avoid dust formation. Avoid breathing vapors, spray mist or gases. Provide adequate ventilation. Evacuate the staff to safe place. Avoid inhalation of dust.

### 6.2 Precautions for environmental protection

Prevent product from entering drains.

### 6.3 Containment and cleaning methods and equipment

Raise and disposal without creating dust. Keep in suitable, closed containers for disposal.

### 6.4 Reference to other topics

For information for safe handling, see Chapter 7. For information on personal protective equipment, see Chapter 8. For information on disposal, see Chapter 13.



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accordingly at regulation (CE) No. 1907/2006

Date revision 03.03.2022

## RUBRIQUE 7: Manipulation and storage

### 7.1 Precautions to Take for Safe Handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Provide adequate ventilation in places where dust forms.

### 7.2 Conditions for safe storage, including possible incompatibilities

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

### 7.3 Special Final Use

Laboratory use

## RUBRIQUE 8: Exposure controls/individual protection

### 8.1 Control Settings

**Components with occupational exposure limit values :** Contains no substances with occupational exposure limit values.

### 8.2 Exposure control

**Appropriate engineering controls :** Handle in accordance with good industrial hygiene practices and safety guidelines . Wash hands before breaks and at the end of the work day.

**Personal protective equipment :**

**Eye / face protection :** Safety glasses with side shields. Use eye protection equipment tested and approved according to applicable standards and regulations. Such as NIOSH (US) or EN 166 (EU).

**Hand / Skin Protection :** Handle with gloves. Use an appropriate glove removal technique to prevent skin contact with the product (ie without touching the outer surface of the glove). Gloves protection selected must satisfy the specifications of EU Directive 89/686 / EEC and standard EN 374 that follows. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practice. Wash and dry hands.

**General measures are protection and hygiene :** Assure the presence of rinses eye and a do uche safety. Use adequate ventilation. Handle in accordance with good industrial hygiene practices and safety instructions. Wash hands before breaks and at the end of the work day.

**Respiratory protection :** In the event of nuisance exposure, use a respirator with a particle filter type P1 (EN143) or type N95 (US). Use equipment tested and approved by standards such as NIOSH (US) or CEN (EU).

**Body protection :** Choose protection according to the amount and concentration of the dangerous substance at work.

## RUBRIQUE 9: Physical and chemical properties

## 9.1 Information on essential physical and chemical properties

Appearance: Liquid

Color: transparent

Smell: characteristic odor

Olfactory threshold: data not available

pH: close to 6

Melting point: data not available

Boiling point/interval: 56°C

Flashpoint: data not available

Flammability (solid, gas): data not available

Decomposition temperature: data not available

Danger of explosion data not available.

Explosive limit, higher: data not available

Explosive limit, lower: data not available

Vapor pressure : data not available

Relative density: data not available

Relative steam density: no data available

Solubility in / Miscibility with Water: no data available

Partition coefficient (n-octanol/water): no data available

Viscosity, dynamic: no data available

Viscosity, cinematic: no data available

## 9.2 More information

void

## RUBRIQUE 10: Stability and responsiveness



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## 10.1 reactivity

It is a reactive substance. Risk of ignition. Vapors may form an explosive mixture with air. When heated Risk of ignition.

## 10.2 Chemical stability

no data available

## 10.3 Conditions to avoid

strong oxidizers.

## 10.4 Incompatible materials

Keep away from heat, hot surfaces, sparks, open flames and other sources of ignition. Do not smoke.

## 10.5 Dangerous composition products

Hazardous combustion products

## 10.6 Possibility of dangerous reaction

no data available

## RUBRIQUE 11: Toxicological information

### 11.1 Toxicological Effects Information

#### Acute toxicity

no data available

#### Skin corrosion/skin irritation

No data available

#### Serious eye damage/eye irritation

Causes severe eye irritation.

#### Respiratory or skin sensitization

No data available

#### Germ cell mutagenicity

No data available

#### Components

ethanol

#### Acute toxicity

LD50 Oral - Rat - male and female - 10.470 mg/kg

(OECD Test Guideline 401)

LC50 Inhalation - Rat - male and female - 4 h - 124,7 mg/l - vapor

(OECD Test Guideline 403)

Dermal: No data available

#### Skin corrosion/irritation

Skin - Rabbit

Result: No skin irritation - 24 h

(OECD Test Guideline 404)

#### Serious eye damage/eye irritation

Eyes - Rabbit

Result: Causes serious eye irritation.

(OECD Test Guideline 405)

#### Respiratory or skin sensitization

Maximization Test - Guinea pig

Result: negative

#### Carcinogenicity



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No data available  
This product contains no known carcinogenic chemicals.  
Reproductive toxicity  
No data available  
Specific target organ toxicity - single exposure  
No data available  
Specific target organ toxicity - repeated exposure  
No data available  
Aspiration hazard  
No data available


## RUBRIQUE 12: Ecological information

- 12.1 Toxicity  
no data available
- 12.2 Persistence and degradability  
no data available
- 12.3 Bioaccumulation Potential  
No other important information available.
- 12.4 Mobility in the ground  
no data available
- 12.5 Results of PBT and vPvB evaluations  
no data available
- 12.6 Other adverse effects  
No other important information available.

## RUBRIQUE 13: Elimination considerations

- 13.1 Waste Treatment Methods  
Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.  
**Disposal of contaminated packaging** : Dispose of as unused product.

## RUBRIQUE 14: Transportation information

14.1 UN Number <b>ADR</b>	UN1170
14.2 United Nations Shipping Name <b>ADR</b> <b>IMDG</b> <b>IATA</b>	1170 ETHANOL (ETHYL ALCOHOL) ETHANOL (ETHYL ALCOHOL) ETHANOL
14.3 Transport Danger Class	
ADR, IMDG, IATA	
	
	class 3 Flammable liquids label 3 II
14.4 Packing Group <b>ADR, IMDG, IATA</b>	
14.5 DAngers for the environment	No applicable
14.6 Special precautions to be taken by the user Hazard identification number (Kemler code): EMS Number: Stowage Category	Warning: Flammable liquids 33 F-E, S-D A
14.7 Bulk transport in accordance with Schedule II of the MARPOL Convention and the IBC	
DOT Quantity limitations	On passenger aircraft/rail: 5 L On cargo aircraft only: 60 L
ADR Excepted quantities (EQ)	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
IMDG Limited quantities (LQ) 1L Excepted quantities (EQ)	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
UN "standard rules"	UN 1170 ETHANOL (ETHYL ALCOHOL), 3, II

## RUBRIQUE 15: Regulatory information





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

**Directives and regulations according to CE :** SDS according to Reg CE N ° 1907/2006

### **National legislation**

**Seveso III:** Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

## 15.2 Chemical safety assessment: data not available

### **RUBRIQUE 16: More information**

These indications are based on the current state of our knowledge, but do not constitute a guarantee as to the properties of the product and do not give rise to a contractual legal relationship. They do not claim to be exhaustive and should be considered as a guide

#### **Other information :**

ADR : European Agreement on the Transport of Dangerous Goods by Road

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

vPvB : very Persistent and very Bioaccumulative

End of the SDS