

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

### xynon spray

Revision date: 02.12.2022

Product code: 10108

Page 1 of 10

## SECTION 1: Identification of the substance/mixture and of the company/undertaking

### 1.1. Product identifier

xynon spray

UFI: 2UYV-60JQ-Y00H-5JXC

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

#### Use of the substance/mixture

Isolating agent for use in dental technology.

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

Company name:	DETAX GmbH	
Street:	Carl-Zeiss-Straße 4	
Place:	D-76275 Ettlingen	
Telephone:	+49 7243/510-0	Telefax: +49 7243/510-100
e-mail:	post@detax.com	
Internet:	www.detax.com	
Responsible Department:	This number is only obtainable during office hours (Monday - Thursday 8.00 a.m. - 5.00 p.m., Friday 8.00 a.m. - 4.00 p.m.)	
	+1-800-424-9300 (CHEMTREC worldwide)	

### 1.4. Emergency telephone number:

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1907/2006

Aerosol 1; H222-H229  
Skin Sens. 1; H317  
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

### 2.2. Label elements

#### Regulation (EC) No. 1907/2006

#### Hazard components for labelling

Anethole  
Estragole  
D-Limonene  
Linalool

Signal word: Danger

Pictograms:



#### Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H317	May cause an allergic skin reaction.
H412	Harmful to aquatic life with long lasting effects.

#### Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

### xynon spray

Revision date: 02.12.2022

Product code: 10108

Page 2 of 10

P251	Do not pierce or burn, even after use.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

#### 2.3. Other hazards

No information available.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

Alcoholic solution with auxiliary matters + perfume. in propellant. (liquefied butane gas)

##### Hazardous components

CAS No	Chemical name	Quantity
	EC No	Index No
	REACH No	
	Classification (Regulation (EC) No. 1907/2006)	
	Anethole	0.1 - < 5 %
		01-2119979097-22
	Skin Sens. 1, Aquatic Chronic 2; H317 H411	
	Estragole	0,1 - < 1 %
		01-2120783278-41
	Carc. 2, Muta. 2, Acute Tox. 4, Skin Sens. 1; H351 H341 H302 H317	
	D-Limonene	0,1 - < 1 %
		01-2111948822-72
	Flam. Liq. 3, Skin Irrit. 2, Skin Sens. 1, Asp. Tox. 1, Aquatic Acute 1, Aquatic Chronic 3; H226 H315 H317 H304 H400 H412	
	Linalool	< 0.1 %
		01-2119474016-42
	Skin Irrit. 2, Skin Sens. 1; H315 H317	

Full text of H and EUH statements: see section 16.

##### Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
		Specific Conc. Limits, M-factors and ATE	
		Anethole	0.1 - < 5 %
		dermal: LD50 = >5000 mg/kg; oral: LD50 = 2090 mg/kg	
		Estragole	0,1 - < 1 %
		dermal: LD50 = 5000 mg/kg; oral: LD50 = 1230 mg/kg	
		D-Limonene	0,1 - < 1 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = 4400 mg/kg	
		Linalool	< 0.1 %
		dermal: LD50 = 5610 mg/kg; oral: LD50 = 2790 mg/kg	

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### After inhalation

Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

##### After contact with skin

After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

### xynon spray

Revision date: 02.12.2022

Product code: 10108

Page 3 of 10

clothing and wash it before reuse. Medical treatment necessary.

#### **After contact with eyes**

Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

#### **After ingestion**

Observe risk of aspiration if vomiting occurs. Rinse mouth immediately and drink plenty of water. Seek immediately medical advice. Do not induce vomiting. In case of spontaneous vomiting take care of an unhindered flow out of the vomit (danger of suffocation).

#### **4.2. Most important symptoms and effects, both acute and delayed**

No information available.

#### **4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>), Foam, Extinguishing powder.

##### **Unsuitable extinguishing media**

Water.

#### **5.2. Special hazards arising from the substance or mixture**

Extremely flammable aerosol. Vapours can form explosive mixtures with air.

#### **5.3. Advice for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

#### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

### **SECTION 6: Accidental release measures**

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

##### **General advice**

Remove all sources of ignition. Provide adequate ventilation. Do not breathe gas/fumes/vapour/spray. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

#### **6.2. Environmental precautions**

Do not allow uncontrolled discharge of product into the environment. Explosion risk.

#### **6.3. Methods and material for containment and cleaning up**

##### **Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents). Treat the recovered material as prescribed in the section on waste disposal.

#### **6.4. Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

### **SECTION 7: Handling and storage**

#### **7.1. Precautions for safe handling**

##### **Advice on safe handling**

Do not pierce or burn, even after use.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

### xynon spray

Revision date: 02.12.2022

Product code: 10108

Page 4 of 10

#### Advice on protection against fire and explosion

Do not spray on naked flames or any incandescent material. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Vapours can form explosive mixtures with air.

#### Advice on general occupational hygiene

Remove contaminated, saturated clothing immediately. Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat, drink, smoke, sniff.

#### 7.2. Conditions for safe storage, including any incompatibilities

##### Requirements for storage rooms and vessels

Keep container tightly closed. Keep in a cool, well-ventilated place. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

##### Hints on joint storage

Do not store together with: Oxidizing agent. Pyrophoric or self-heating substances.

##### Further information on storage conditions

Keep only in the original container in a cool, dry and well-ventilated place, away from foodstuffs.

#### 7.3. Specific end use(s)

Insulating spray for use in dental laboratories.  
For use by trained specialist staff.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
106-97-8	Butane	600	1450		TWA (8 h)	WEL
		750	1810		STEL (15 min)	WEL
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL

#### 8.2. Exposure controls

##### Individual protection measures, such as personal protective equipment

##### Eye/face protection

Wear eye/face protection.

##### Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Suitable are gloves of the following material: Butyl caoutchouc (butyl rubber) , FKM (fluoro rubber) , CR (polychloroprene, chloroprene rubber)

##### Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing .

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

### xynon spray

Revision date: 02.12.2022

Product code: 10108

Page 5 of 10

## SECTION 9: Physical and chemical properties

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

Physical state:	liquided gas with liquid part, compressed	
Colour:	colourless	
Odour:	like aniseed	
		<b>Test method</b>
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		not determined
Flammability		
Solid/liquid:		not applicable
Gas:		not applicable
Lower explosion limits:		1,5 vol. %
Upper explosion limits:		8,5 vol. %
Flash point:		<-10 °C DIN 51755
Auto-ignition temperature:		365 °C DIN 51794
Decomposition temperature:		not determined
pH-Value:		not determined
Water solubility:		practically insoluble
Solubility in other solvents		
not determined		
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		9000 hPa
(at 70 °C)		
Density (at 15 °C):		0,73 g/cm <sup>3</sup> DIN 51757
Relative vapour density:		not determined

### 9.2. Other information

#### Information with regard to physical hazard classes

##### Explosive properties

Heating may cause an explosion.

##### Self-ignition temperature

Solid:

not applicable

Gas:

not applicable

##### Oxidizing properties

Not oxidizing.

#### Other safety characteristics

Evaporation rate:

not determined

Solid content:

not determined

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Extremely flammable aerosol.

### 10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

Reacts with : flammable, spontaneously flammable and combustible substances. Prevent any contact of the product with strong oxidising agents, such as chlorine or concentrated oxygen.

### 10.4. Conditions to avoid

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Vapours can form explosive

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

### xynon spray

Revision date: 02.12.2022

Product code: 10108

Page 6 of 10

mixtures with air. Higher temperatures advance the formulation of explosive vapour-air mixtures, therefore don't expose the product to increased temperatures.

#### 10.5. Incompatible materials

No information available.

#### 10.6. Hazardous decomposition products

No known hazardous decomposition products.

### SECTION 11: Toxicological information

#### 11.1. Information on hazard classes as defined in Regulation (EC) No. 1907/2006

##### Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
	Anethole				
	oral	LD50 2090 mg/kg	Rat		
	dermal	LD50 >5000 mg/kg	Rabbit		
	Estragole				
	oral	LD50 1230 mg/kg	Rat		
	dermal	LD50 5000 mg/kg	Rabbit		
	D-Limonene				
	oral	LD50 4400 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg			
	Linalool				
	oral	LD50 2790 mg/kg	Rat		
	dermal	LD50 5610 mg/kg	Rabbit		

##### Irritation and corrosivity

Based on available data, the classification criteria are not met.

##### Sensitising effects

May cause an allergic skin reaction. (Anethole; Estragole; D-Limonene; Linalool)

##### Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met.

##### STOT-single exposure

Based on available data, the classification criteria are not met.

##### STOT-repeated exposure

Based on available data, the classification criteria are not met.

##### Aspiration hazard

Based on available data, the classification criteria are not met.

##### Additional information on tests

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

### xynon spray

Revision date: 02.12.2022

Product code: 10108

Page 7 of 10

## SECTION 12: Ecological information

### 12.1. Toxicity

Harmful to aquatic life with long lasting effects.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
	D-Limonene					
	Acute fish toxicity	LC50	0,7 mg/l	96 h	Pimephales promelas (fathead minnow)	
	Acute crustacea toxicity	EC50	0,4 mg/l	48 h	Daphnia magna (Big water flea)	
	Fish toxicity	NOEC	4 mg/l	96 d	Scenedesmus subspicatus	

### 12.2. Persistence and degradability

The product has not been tested.

### 12.3. Bioaccumulative potential

The product has not been tested.

### 12.4. Mobility in soil

The product has not been tested.

### 12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

Not identified as PBT/ vPvB substances

### 12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

### 12.7. Other adverse effects

No information available.

### Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

#### Disposal recommendations

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

#### Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

## SECTION 14: Transport information

### Land transport (ADR/RID)

<b>14.1. UN number or ID number:</b>	UN 1950
<b>14.2. UN proper shipping name:</b>	AEROSOLS
<b>14.3. Transport hazard class(es):</b>	2
<b>14.4. Packing group:</b>	-
Hazard label:	2.1
Classification code:	5F
Limited quantity:	1 L/ 30 kg

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

### xynon spray

Revision date: 02.12.2022

Product code: 10108

Page 8 of 10

Transport category: 2  
Tunnel restriction code: D

#### Other applicable information (land transport)

Flammable gas

#### Marine transport (IMDG)

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
Hazard label: 2.1  
Marine pollutant: -  
Limited quantity: 1000 mL/ 30 kg  
EmS: F-D, S-U

#### Other applicable information (marine transport)

Flash point: <-10°C c.c.

#### Air transport (ICAO-TI/IATA-DGR)

**14.1. UN number or ID number:** UN 1950  
**14.2. UN proper shipping name:** AEROSOLS, flammable  
**14.3. Transport hazard class(es):** 2.1  
**14.4. Packing group:** -  
Hazard label: 2.1  
Limited quantity Passenger: 30 kg G  
Passenger LQ: Y203  
Excepted quantity: E0  
IATA-packing instructions - Passenger: 203  
IATA-max. quantity - Passenger: 75 kg  
IATA-packing instructions - Cargo: 203  
IATA-max. quantity - Cargo: 150 kg

#### Other applicable information (air transport)

Flammable gas

#### 14.6. Special precautions for user

Warning: Flammable gases.

#### 14.7. Maritime transport in bulk according to IMO instruments

not applicable

### SECTION 15: Regulatory information

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

##### EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 40, Entry 75

2010/75/EU (VOC): 80,312 % (586,281 g/l)  
2004/42/EC (VOC): 80,312 % (586,281 g/l)  
Information according to 2012/18/EU (SEVESO III): P3a FLAMMABLE AEROSOLS

##### Additional information

To follow: 850/2004/EC, 79/117/EEC, 689/2008/EC, 2008/47/EC  
Aerosol Directive (75/324/).

##### National regulatory information

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).  
Water hazard class (D): 3 - highly hazardous to water



## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

### xynon spray

Revision date: 02.12.2022

Product code: 10108

Page 9 of 10

Skin resorption/Sensitization: Causes allergic hypersensitivity reactions.

#### 15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

### SECTION 16: Other information

#### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service  
 LC50: Lethal concentration, 50%  
 LD50: Lethal dose, 50%  
 CLP: Classification, labelling and Packaging  
 REACH: Registration, Evaluation and Authorization of Chemicals  
 GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals  
 UN: United Nations  
 DNEL: Derived No Effect Level  
 DMEL: Derived Minimal Effect Level  
 PNEC: Predicted No Effect Concentration  
 ATE: Acute toxicity estimate  
 LL50: Lethal loading, 50%  
 EL50: Effect loading, 50%  
 EC50: Effective Concentration 50%  
 ErC50: Effective Concentration 50%, growth rate  
 NOEC: No Observed Effect Concentration  
 BCF: Bio-concentration factor  
 PBT: persistent, bioaccumulative, toxic  
 vPvB: very persistent, very bioaccumulative  
 RID: Regulations concerning the international carriage of dangerous goods by rail  
 EmS: Emergency Schedules  
 MFAG: Medical First Aid Guide  
 ICAO: International Civil Aviation Organization  
 MARPOL: International Convention for the Prevention of Marine Pollution from Ships  
 IBC: Intermediate Bulk Container  
 VOC: Volatile Organic Compounds  
 SVHC: Substance of Very High Concern  
 For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

#### Classification for mixtures and used evaluation method according to Regulation (EC) No. 1907/2006

Classification	Classification procedure
Aerosol 1; H222-H229	On basis of test data
Skin Sens. 1; H317	Bridging principle "Aerosols"
Aquatic Chronic 3; H412	Calculation method

#### Relevant H and EUH statements (number and full text)

H222 Extremely flammable aerosol.  
 H226 Flammable liquid and vapour.  
 H229 Pressurised container: May burst if heated.  
 H302 Harmful if swallowed.  
 H304 May be fatal if swallowed and enters airways.

## Safety Data Sheet

according to Regulation (EC) No. 1907/2006

### xynon spray

Revision date: 02.12.2022

Product code: 10108

Page 10 of 10

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H341	Suspected of causing genetic defects.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

#### Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*