

# Safety data sheets Ferney Group BV

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

### 1.1. Product identifier

Productname	<b>Kelfort ®</b> Primer tbv lak 500ml
Article number	1513261 - primer 500 ml white 1513262 - primer 500 ml red 1513263 - primer 500 ml grey
Producttype	Mixture
UFI-code	3280-W0JT-N00F-7AEF
Regulation	REACH (EC) reglement nr. 1907/2006 - nr. 2020/878)

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

Recommended use	Surface treatment. Intended use: Aerosol paint. For professional use only.
Uses advised against	All such use is not specified in this section not in section 7.3.

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

**Distributeur** Ferney Group BV  
Postbus 24  
1700 AA Heerhugowaard – The Netherlands  
T +31 (0)72-5765000 - F +31 (0)72-5765010  
[bedrijfsbureau@ferneygroup.nl](mailto:bedrijfsbureau@ferneygroup.nl) - [www.ferney.nl](http://www.ferney.nl)

### 1.4 Emergency telephone number

Noodtelefoon : +49(0)9366-907126 (ma-do 7.15-18.00 hour) or  
: +31(0)88-7558000 (after worktime, exclusive use for doctors, pharmacists and government institutions)

Country	Organisation/ Company	Address	Emergency number	Comments
The Netherlands	National Poisons Information Center	House post number B.00.118 PO Box 85500 3508 GA Utrecht	+31 88 755 80 00	For the sole purpose of informing healthcare professionals in the event of acute poisoning

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## SECTION 2 : HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

In compliance with EC regulation No. 1272/2008 and its amendments.

Aerosol, Category 1 (Aerosol 1, H222 - H229).

Skin irritation, Category 2 (Skin Irrit. 2, H315).

Eye irritation, Category 2 (Eye Irrit. 2, H319).

Specific target organ toxicity (single exposure), Category 3 (STOT SE 3, H336).

This mixture does not present an environmental hazard. No known or foreseeable environmental damage under standard conditions of use.

The propellant gas is not taken into account when determining the health and environmental classification of the mixture.

### 2.2. Label elements

Mixture for aerosol application.

In compliance with EC regulation No. 1272/2008 and its amendments.

Hazard pictograms :



GHS02



GHS07

Signal Word :

DANGER

Product identifiers :

EC 204-658-1

EC 205-500-4

EC 200-662-2

N-BUTYL ACETATE

ETHYL ACETATE

ACETONE

Additional labeling :

EUH211

Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

Hazard statements :

H222

Extremely flammable aerosol.

H229

Pressurised container: May burst if heated.

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H336

May cause drowsiness or dizziness.

Precautionary statements - General :

P101

If medical advice is needed, have product container or label at hand.

P102

Keep out of reach of children.

Precautionary statements - Prevention :

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.

P251

Do not pierce or burn, even after use.

P261

Avoid breathing spray.

P271

Use only outdoors or in a well-ventilated area.

Precautionary statements - Response :

P302 + P352

IF ON SKIN: Wash thoroughly with soap and water

P304 + P340

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

P305 + P351 + P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P312

Call a POISON CENTER/doctor/... if you feel unwell.

P321

Specific treatment (see ... on this label).

P332 + P313

If skin irritation occurs: Get medical advice/attention.

P337 + P313

If eye irritation persists: Get medical advice/attention.

P362 + P364

Take off contaminated clothing and wash it before reuse.

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Precautionary statements - Storage :

P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Precautionary statements - Disposal :

P501 Dispose of contents / container in accordance with national regulations

## 2.3. Other hazards

The mixture does not contain substances classified as 'Substances of Very High Concern' (SVHC)  $\geq 0.1\%$  published by the European Chemicals Agency (ECHA) under article 59 of REACH: <http://echa.europa.eu/fr/candidate-list-table>

The mixture fulfils neither the PBT nor the vPvB criteria for mixtures in accordance with annexe XIII of the REACH regulations EC 1907/2006.

The mixture does not contain substances  $\geq 0.1\%$  with endocrine disrupting properties in accordance with the criteria of the Delegated Regulation (EU) 2017/2100 of the Commission or Regulation (EU) 2018/605 of the Commission.

## SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

#### Composition :

Identification	Classification (EC) 1272/2008	Note	%
INDEX: ITALIA_00001 CAS: 68476-40-4 EC: 270-681-9 REACH: 01-2119486557-22  HYDROCARBONS, C3-C4 (PROPANE, BUTANE, ISOBUTANE)	GHS02 Flam. Gas 1A, H220 Press. Gas, H280	K [vii]	25 $\leq$ x % < 50
INDEX: ITALIA_00004 CAS: 123-86-4 EC: 204-658-1 REACH: 01-2119485493-29  N-BUTYL ACETATE	GHS07, GHS02 Wng Flam. Liq. 3, H226 STOT SE 3, H336 EUH066	[i]	10 $\leq$ x % < 25
INDEX: ITALIA_00003 CAS: 141-78-6 EC: 205-500-4 REACH: 01-2119475103-46  ETHYL ACETATE	GHS07, GHS02 Dgr Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	[i]	10 $\leq$ x % < 25
INDEX: ITALIA_00002 CAS: 67-64-1 EC: 200-662-2	GHS07, GHS02 Dgr Flam. Liq. 2, H225	[i]	2.5 $\leq$ x % < 10
REACH: 01-2119471330-49-XXXX  ACETONE	Eye Irrit. 2, H319 STOT SE 3, H336 EUH066		
INDEX: ITALIA_00050 CAS: 1330-20-7 EC: 215-535-7 REACH: 01-2119488216-32-0000  XILENE MISCELA DI ISOMERI (BENZENE <0,01%)	GHS07, GHS02 Wng Flam. Liq. 3, H226 Acute Tox. 4, H312 Skin Irrit. 2, H315 Acute Tox. 4, H332	[i]	2.5 $\leq$ x % < 10

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INDEX: ITALIA_00005 CAS: 108-65-6 EC: 203-603-9 REACH: 01-2119475791-29  2-METHOXY-1-METHYLETHYL ACETATE	GHS07, GHS02 Wng Flam. Liq. 3, H226 STOT SE 3, H336	[I]	2.5 <= x % < 10
INDEX: 022-006-00-2 CAS: 13463-67-7 EC: 236-675-5  TITANIUM DIOXIDE [IN POWDER FORM CONTAINING 1 % OR MORE OF PARTICLES WITH AERODYNAMIC DIAMETER <= 10 µm]	GHS08 Wng Carc. 2, H351	[I] [10]	2.5 <= x % < 10
INDEX: ITALIA_00037 CAS: 111-76-2 EC: 203-905-0 REACH: 01-2119475108-36-XXXX  2-BUTOXIETANOL - ( BUTOXYETHANOL ) INHALATION: ATE = 3 MG/L (VAPOURS) ORAL: ATE = 1200 MG/KG BW	GHS06 Dgr Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Acute Tox. 3, H331	[I]	0 <= x % < 2.5
INDEX: ITALIA_00038 CAS: 67-63-0 EC: 200-661-7 REACH: 01-2119457558-25-XXXX  2-PROPANOL - ( ISOPROPYL ALCOHOL )	GHS07, GHS02 Dgr Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336	[I]	0 <= x % < 2.5

## Specific concentration limits:

Identification	Specific concentration limits	ATE
INDEX: ITALIA_00001 CAS: 68476-40-4 EC: 270-681-9 REACH: 01-2119486557-22  HYDROCARBONS, C3-C4 (PROPANE, BUTANE, ISOBUTANE)		inhalation: ATE = 1443 mg/l (dust/mist)
INDEX: ITALIA_00004 CAS: 123-86-4 EC: 204-658-1 REACH: 01-2119485493-29  N-BUTYL ACETATE		inhalation: ATE = 21 mg/l (dust/mist)
INDEX: ITALIA_00002 CAS: 67-64-1 EC: 200-662-2 REACH: 01-2119471330-49-XXXX  ACETONE		inhalation: ATE = 76 mg/l 4h (vapours) oral: ATE = 5800 mg/kg BW
INDEX: ITALIA_00050		inhalation: ATE = 27 mg/l



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CAS: 1330-20-7 EC: 215-535-7 REACH: 01-2119488216-32-0000  XILENE MISCELA DI ISOMERI (BENZENE <0,01%)		(dust/mist) dermal: ATE = 4350 mg/kg BW oral: ATE = 3523 mg/kg BW
INDEX: ITALIA_00005 CAS: 108-65-6 EC: 203-603-9 REACH: 01-2119475791-29  2-METHOXY-1-METHYLETHYL ACETATE INDEX: ITALIA_00037		inhalation: ATE = 37 mg/l 4h (dust/mist)
CAS: 111-76-2 EC: 203-905-0 REACH: 01-2119475108-36-XXXX  2-BUTOXIETANOL - ( BUTOXYETHANOL ) INHALATION: ATE = 3 MG/L (VAPOURS) ORAL: ATE = 1200 MG/KG BW		inhalation: ATE = 3 mg/l 4h (vapours) oral: ATE = 1200 mg/kg BW
INDEX: ITALIA_00038 CAS: 67-63-0 EC: 200-661-7 REACH: 01-2119457558-25-XXXX  2-PROPANOL - ( ISOPROPYL ALCOHOL )		inhalation: ATE = 72.6 mg/l 4h (dust/mist) dermal: ATE = 12800 mg/kg BW oral: ATE = 4710 mg/kg BW

## Information on ingredients :

(Full text of H-phrases: see section 16)

[i] Substance for which maximum workplace exposure limits are available.

[vii] Propellant gas

Note K: The carcinogen or mutagen classification does not apply because the substance contains less than 0.1 % w/w of 1,3-butadiene (EINECS 203-450-8).

Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium dioxide which is in the form of or incorporated in particles with aerodynamic diameter  $\leq 10 \mu\text{m}$ .

## SECTION 4 : FIRST AID MEASURES

As a general rule, in case of doubt or if symptoms persist, always call a doctor.

NEVER induce swallowing by an unconscious person.

### 4.1. description of first aid measures

#### In the event of exposure by inhalation :

In the event of massive inhalation, remove the person exposed to fresh air. Keep warm and at rest.

If the person is unconscious, place in recovery position. Notify a doctor in all events, to ascertain whether observation and supportive hospital care will be necessary.

If breathing is irregular or has stopped, effect mouth-to-mouth resuscitation and call a doctor.

#### In the event of splashes or contact with eyes :

Wash thoroughly with fresh, clean water for 15 minutes holding the eyelids open.

If there is any redness, pain or visual impairment, consult an ophthalmologist.

#### In the event of splashes or contact with skin :

Remove contaminated clothing and wash the skin thoroughly with soap and water or a recognised cleaner.

Watch out for any remaining product between skin and clothing, watches, shoes, etc.

If the contaminated area is widespread and/or there is damage to the skin, a doctor must be consulted or the patient transferred to hospital.

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## In the event of swallowing :

Do not give the patient anything orally.

In the event of swallowing, if the quantity is small (no more than one mouthful), rinse the mouth with water and consult a doctor.

Keep the person exposed at rest. Do not force vomiting.

Seek medical attention immediately, showing the label.

If swallowed accidentally, call a doctor to ascertain whether observation and hospital care will be necessary. Show the label.

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

No data available.

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

No data available.

## SECTION 5 : FIREFIGHTING MEASURES

Flammable.

Chemical powders, carbon dioxide and other extinguishing gas are suitable for small fires.

### 5.1. Extinguishing media

Keep packages near the fire cool, to prevent pressurised containers from bursting.

#### Suitable methods of extinction

In the event of a fire, use :

- sprayed water or water mist
- water with AFFF (Aqueous Film Forming Foam) additive
- halon
- foam
- multipurpose ABC powder
- BC powder
- carbon dioxide (CO<sub>2</sub>)

Prevent the effluent of fire-fighting measures from entering drains or waterways.

#### Unsuitable methods of extinction

In the event of a fire, do not use :

- water jet

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

A fire will often produce a thick black smoke. Exposure to decomposition products may be hazardous to health.

Do not breathe in smoke.

In the event of a fire, the following may be formed :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

### 5.3. Advice for firefighters

Fire-fighting personnel are to be equipped with autonomous insulating breathing apparatus.

## SECTION 6 : ACCIDENTAL RELEASE MEASURES

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

Consult the safety measures listed under headings 7 and 8.

#### For non first aid worker

Because of the organic solvents contained in the mixture, eliminate sources of ignition and ventilate the area.

Avoid inhaling the vapors.

Avoid any contact with the skin and eyes.

If a large quantity has been spilt, evacuate all personnel and only allow intervention by trained operators equipped with safety apparatus.

#### For first aid worker

First aid workers will be equipped with suitable personal protective equipment (See section 8).

### 6.2. Environmental precautions

Contain and control the leaks or spills with non-combustible absorbent materials such as sand, earth, vermiculite, diatomaceous earth in drums for waste disposal.

Prevent any material from entering drains or waterways.

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

Clean preferably with a detergent, do not use solvents.

## 6.4. Reference to other sections

No data available.

## SECTION 7 : HANDLING AND STORAGE

Requirements relating to storage premises apply to all facilities where the mixture is handled.

### 7.1. Precautions for safe handling

Always wash hands after handling.

Remove and wash contaminated clothing before re-using.

Ensure that there is adequate ventilation, especially in confined areas.

### Fire prevention :

Handle in well-ventilated areas.

Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.

Prevent the formation of flammable or explosive concentrations in air and avoid vapor concentrations higher than the occupational exposure limits.

Do not spray on a naked flame or any incandescent material.

Do not pierce or burn, even after use.

Use the mixture in premises free of naked flames or other sources of ignition and ensure that electrical equipment is suitably protected.

Keep packages tightly closed and away from sources of heat, sparks and naked flames.

Do not use tools which may produce sparks. Do not smoke.

Prevent access by unauthorised personnel.

### Recommended equipment and procedures :

For personal protection, see section 8.

Observe precautions stated on label and also industrial safety regulations.

Do not breathe in aerosols.

Avoid inhaling vapors.

Avoid inhaling vapors. Carry out any industrial operation which may give rise to this in a sealed apparatus.

Provide vapor extraction at the emission source and also general ventilation of the premises.

Also provide breathing apparatus for certain short tasks of an exceptional nature and for emergency interventions.

In all cases, recover emissions at source.

Avoid skin and eye contact with this mixture.

Packages which have been opened must be reclosed carefully and stored in an upright position.

### Prohibited equipment and procedures :

No smoking, eating or drinking in areas where the mixture is used.

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

No data available.

### Storage

Keep out of reach of children.

Keep the container tightly closed in a dry, well-ventilated place.

Keep away from all sources of ignition - do not smoke.

Keep well away from all sources of ignition, heat and direct sunlight.

The floor must be impermeable and form a collecting basin so that, in the event of an accidental spillage, the liquid cannot spread beyond this area.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C.

### Packaging

Always keep in packaging made of an identical material to the original.

### 7.3. Specific end use(s)

No data available.



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## SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Occupational exposure limits :

- European Union :

CAS	VME-mg/m3 :	VME-ppm :	VLE-mg/m3 :	VLE-ppm :	Notes :
123-86-4	241	50	723	150	-
141-78-6	734	200	1468	400	-
67-64-1	1210	500	-	-	-
1330-20-7	221	50	442	100	Peau
108-65-6	275	50	550	100	Peau
111-76-2	98	20	246	50	Peau

- France :

CAS	VME-ppm :	VME-mg/m3 :	VLE-ppm :	VLE-mg/m3 :	Notes :	TMP No :
123-86-4	50	241	150	723	VLRC	84
141-78-6	200	734	400	1468	VLRC	84
67-64-1	500	1210	1000	2420	VLRC	84
1330-20-7	50	221	100	442	VLRC	84,4 BIS
108-65-6	50	275	100	550	VLRC	
13463-67-7	-	10	-	-	-	
111-76-2	10	49	50	246	VLRC	84
67-63-0	-	-	400	980	-	84

- Italy :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
123-86-4	50 ppm	150 ppm	-	-	-
	241 mg/m3	723 mg/m3			
141-78-6	200 ppm	400 ppm	-	-	-
	734 mg/m3	1468 mg/m3			
67-64-1	500 ppm	-	-	-	-
	1210 mg/m3				
1330-20-7	50 ppm	100 ppm	-	Cute	-
	221 mg/m3	442 mg/m3			
108-65-6	50 ppm	100 ppm	-	Cute	-
	275 mg/m3	550 mg/m3			
111-76-2	20 ppm	50 ppm	-	Cute	-
	98 mg/m3	246 mg/m3			

- UK :

CAS	TWA :	STEL :	Ceiling :	Definition :	Criteria :
123-86-4	150 ppm	200 ppm	-	-	-
	724 mg/m3	966 mg/m3			
141-78-6	200 ppm	400 ppm	-	-	-
	734 mg/m3	1468 mg/m3			
67-64-1	500 ppm	1500 ppm	-	-	-
	1210 mg/m3	3620 mg/m3			
1330-20-7	50 ppm	100 ppm	-	Sk. BMGV	-
	220 mg/m3	441 mg/m3			
108-65-6	50 ppm	100 ppm	-	Sk	-
	274 mg/m3	548 mg/m3			
13463-67-7	4 mg/m3	-	-	-	-
111-76-2	25 ppm	50 ppm	-	Sk. BMGV	-
	123 mg/m3	246 mg/m3			
67-63-0	400 ppm	500 ppm	-	-	-
	999 mg/m3	1250 mg/m3			



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## Derived no effect level (DNEL) or derived minimum effect level (DMEL):

2-PROPANOL - ( ISOPROPYL ALCOHOL ) (CAS: 67-63-0)

### Final use:

Exposure method:

Potential health effects:

DNEL :

### Workers.

Dermal contact.

Short term local effects.

880 mg/kg body weight/day

Exposure method:

Potential health effects:

DNEL :

Dermal contact.

Long term local effects.

319 mg/kg body weight/day

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Long term local effects.

500 mg of substance/m3

### Final use:

Exposure method:

Potential health effects:

DNEL :

### Consumers.

Ingestion.

Long term local effects.

26 mg/kg body weight/day

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Long term local effects.

89 mg of substance/m3

2-BUTOXIETANOL - ( BUTOXYETHANOL ) INHALATION: ATE = 3 MG/L (VAPOURS) ORAL: ATE = 1200 MG/KG BW (CAS: 111-76-2)

### Final use:

Exposure method:

Potential health effects:

DNEL :

### Workers.

Dermal contact.

Long term local effects.

75 mg/kg body weight/day

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Long term local effects.

98 mg of substance/m3

### Final use:

Exposure method:

Potential health effects:

DNEL :

### Consumers.

Ingestion.

Long term local effects.

3.2 mg/kg body weight/day

Exposure method:

Potential health effects:

DNEL :

Dermal contact.

Long term local effects.

38 mg/kg body weight/day

Exposure method:

Potential health effects:

DNEL :

Inhalation.

Long term local effects.

49 mg of substance/m3

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

### Final use:

Exposure method:

Potential health effects:

DNEL :

### Workers.

Dermal contact.

Long term local effects.

153 mg/kg body weight/day

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Exposure method: Inhalation.  
Potential health effects: Long term local effects.  
DNEL : 275 mg of substance/m3

**Final use:** **Consumers.**  
Exposure method: Ingestion.  
Potential health effects: Long term local effects.  
DNEL : 1,67 mg/kg body weight/day

Exposure method: Dermal contact.  
Potential health effects: Long term local effects.  
DNEL : 55 mg/kg body weight/day

Exposure method: Inhalation.  
Potential health effects: Long term local effects.  
DNEL : 33 mg of substance/m3

XILENE MISCELA DI ISOMERI (BENZENE <0,01%) (CAS: 1330-20-7)

**Final use:** **Workers.**  
Exposure method: Dermal contact.  
Potential health effects: Short term local effects.  
DNEL : 180 mg/kg body weight/day

Exposure method: Dermal contact.  
Potential health effects: Long term local effects.  
DNEL : 180 mg/kg body weight/day

Exposure method: Inhalation.  
Potential health effects: Long term local effects.  
DNEL : 77 mg of substance/m3

**Final use:** **Consumers.**  
Exposure method: Ingestion.  
Potential health effects: Long term local effects.  
DNEL : 1,6 mg/kg body weight/day

Exposure method: Dermal contact.  
Potential health effects: Long term local effects.  
DNEL : 108 mg/kg body weight/day

Exposure method: Dermal contact.  
Potential health effects: Long term local effects.  
DNEL : 108 mg/kg body weight/day

Exposure method: Inhalation.  
Potential health effects: Long term local effects.  
DNEL : 14,8 mg of substance/m3

ACETONE (CAS: 67-64-1)

**Final use:** **Workers.**  
Exposure method: Inhalation.  
Potential health effects: Long term local effects.  
DNEL : 1210 mg of substance/m3

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Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Short term local effects.  
2400 mg of substance/m3

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Consumers.**

Dermal contact.  
Long term local effects.  
62 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Dermal contact.  
Long term local effects.  
186 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term local effects.  
200 mg of substance/m3

**ETHYL ACETATE (CAS: 141-78-6)**

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Long term local effects.  
63 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term local effects.  
734 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Short term local effects.  
1468 mg of substance/m3

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Consumers.**

Ingestion.  
Long term local effects.  
4.5 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Dermal contact.  
Long term local effects.  
37 mg/kg body weight/day

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term local effects.  
367 mg of substance/m3

Exposure method:  
Potential health effects:  
DNEL :

Inhalation.  
Long term local effects.  
734 mg of substance/m3

**N-BUTYL ACETATE (CAS: 123-86-4)**

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Inhalation.  
Long term local effects.  
480 mg of substance/m3



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Exposure method:  
Potential health effects:

DNEL :

Inhalation.  
Short term systemic effects.

960 mg of substance/m3

**Final use:**

Exposure method:  
Potential health effects:  
DNEL :

**Consumers.**

Inhalation.  
Long term local effects.  
102 mg of substance/m3

**Predicted no effect concentration (PNEC):**

ACETONE (CAS: 67-64-1)  
Environmental compartment:  
PNEC :

Soil.  
33.3 mg/kg

Environmental compartment:  
PNEC :

Fresh water.  
10.6 mg/l

Environmental compartment:  
PNEC :

Sea water.  
1.06 mg/l

Environmental compartment:  
PNEC :

Intermittent waste water.  
21 mg/l

Environmental compartment:  
PNEC :

Fresh water sediment.  
30.4 mg/l

Environmental compartment:  
PNEC :

Marine sediment.  
3.04 mg/l

Environmental compartment:  
PNEC :

Waste water treatment plant.  
100 mg/l

**ETHYL ACETATE (CAS: 141-78-6)**

Environmental compartment:  
PNEC :

Air.  
0.2 mg/m3

Environmental compartment:  
PNEC :

Soil.  
0.24 mg/kg

Environmental compartment:  
PNEC :

Fresh water.  
0.26 mg/l

Environmental compartment:  
PNEC :

Sea water.  
0.026 mg/l

Environmental compartment:  
PNEC :

Intermittent waste water.  
1.65 mg/m3

Environmental compartment:  
PNEC :

Fresh water sediment.  
1.25 mg/kg

Environmental compartment:  
PNEC :

Marine sediment.  
0.125

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Environmental compartment:  
PNEC :

Waste water treatment plant.  
650 mg/l

## 8.2. Exposure controls

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

Pictogram(s) indicating the obligation of wearing personal protective equipment (PPE) :



Use personal protective equipment that is clean and has been properly maintained.

Store personal protective equipment in a clean place, away from the work area.

Never eat, drink or smoke during use. Remove and wash contaminated clothing before re-using. Ensure that there is adequate ventilation, especially in confined areas.

#### - Eye / face protection

Avoid contact with eyes.

Use eye protectors designed to protect against liquid splashes

Before handling, wear safety goggles with protective sides accordance with standard ISO 16321.

In the event of high danger, protect the face with a face shield.

Prescription glasses are not considered as protection.

Individuals wearing contact lenses should wear prescription glasses during work where they may be exposed to irritant vapours.

Provide eyewash stations in facilities where the product is handled constantly.

#### - Hand protection

Use suitable protective gloves that are resistant to chemical agents in accordance with standard EN ISO 374-1.

Gloves must be selected according to the application and duration of use at the workstation.

Protective gloves need to be selected according to their suitability for the workstation in question : other chemical products that may be handled, necessary physical protections (cutting, pricking, heat protection), level of dexterity required.

Type of gloves recommended :

- PVA (Polyvinyl alcohol)

#### - Body protection

Avoid skin contact.

Wear suitable protective clothing.

Suitable type of protective clothing :

In the event of substantial spatter, wear liquid-tight protective clothing against chemical risks (type 3) in accordance with EN14605/A1 to prevent skin contact.

In the event of a risk of splashing, wear protective clothing against chemical risks (type 6) in accordance with EN13034/A1 to prevent skin contact.

Work clothing worn by personnel shall be laundered regularly.

After contact with the product, all parts of the body that have been soiled must be washed.

#### - Respiratory protection

Avoid inhaling vapors.

If the ventilation is insufficient, wear appropriate breathing apparatus.

When workers are confronted with concentrations that are above occupational exposure limits, they must wear a suitable, approved, respiratory protection device.

Type of FFP mask :

Wear a disposable half-mask aerosol filter in accordance with standard EN149/A1.

Category :

- FFP1

Anti-gas and vapour filter(s) (Combined filters) in accordance with standard EN14387 :

- A1 (Brown)

Particle filter according to standard EN143 :

- P1 (White)

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## SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES

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

#### Physical state

Physical state :	Fluid liquid.
	Spray.

Pressure container with product and liquefied gas

#### Colour

In accordance with the product designation

#### Odour

Odour threshold :	Not stated.
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Solvent

#### Melting point

Melting point/melting range :	Not specified.
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#### Freezing point

Freezing point / Freezing range :	Not stated.
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#### Boiling point or initial boiling point and boiling range

Boiling point/boiling range :	< 0 °C
-------------------------------	--------

#### Flammability

Flammability (solid, gas) :	< 0 °C
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#### Lower and upper explosion limit

Explosive properties, lower explosivity limit (%) :	1,9 Vol % (LEL)
Explosive properties, upper explosivity limit (%) :	15,0 Vol % (UEL)

#### Flash point

Flash point interval :	Not relevant.
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#### Auto-ignition temperature

Self-ignition temperature :	Not specified.
-----------------------------	----------------

#### Decomposition temperature

Decomposition point/decomposition range :	Not specified.
---	----------------

#### pH

pH :	Not stated.
	Neutral.
pH (aqueous solution) :	Not stated.

Not applicable due to the nature of the product.

#### Kinematic viscosity

Viscosity :	Not stated.
-------------	-------------

#### Solubility

Water solubility :	Insoluble.
Fat solubility :	Not stated.

#### Partition coefficient n-octanol/water (log value)

Partition coefficient: n-octanol/water :	Not stated.
--	-------------

#### Vapour pressure

Vapour pressure (50°C) :	Not relevant.
	4,0 +/- 0,2 Bar a 20C

#### Density and/or relative density

Density :	0,72 +/- 0,01 g/cm³ a 20 °C
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#### Relative vapour density

Vapour density :	Not stated.
------------------	-------------

#### Particle characteristics

The mixture does not contain nanoforms.



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## 9.2. Other information

% VOC : 640 g/l

### 9.2.1. Information with regard to physical hazard classes

No data available.

#### Aerosols

Chemical combustion heat :	Not specified.
Inflammation time :	Not specified.
Deflagration density :	Not specified.
Inflammation distance :	Not specified.
Flame height :	Not specified.
Flame duration :	Not specified.

### 9.2.2. Other safety characteristics

No data available.

## SECTION 10 : STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

This mixture is stable under the recommended handling and storage conditions in section 7.

### 10.3. Possibility of hazardous reactions

When exposed to high temperatures, the mixture can release hazardous decomposition products, such as carbon monoxide and dioxide, fumes and nitrogen oxide.

### 10.4. Conditions to avoid

Any apparatus likely to produce a flame or to have a metallic surface at high temperature (burners, electric arcs, furnaces etc.) must not be allowed on the premises.

Avoid :

- heating
- heat

### 10.5. Incompatible materials

No data available.

### 10.6. Hazardous decomposition products

The thermal decomposition may release/form :

- carbon monoxide (CO)
- carbon dioxide (CO<sub>2</sub>)

## SECTION 11 : TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### 11.1.1. Substances

##### a) Acute toxicity :

HYDROCARBONS, C3-C4 (PROPANE, BUTANE, ISOBUTANE) (CAS: 68476-40-4)

Inhalation route (Dusts/mist) : LC50 = 1443 mg/m<sup>3</sup>  
Species : Rat

2-PROPANOL - ( ISOPROPYL ALCOHOL ) (CAS: 67-63-0)

Oral route : LD50 = 4710 mg/kg body weight  
Species : Rat

Dermal route : LD50 = 12800 ml/kg body weight  
Species : Rat

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Inhalation route (Dusts/mist) :

LC50 = 72.6 mg/l  
Species : Rat  
Duration of exposure : 4 h

2-BUTOXIETANOL - ( BUTOXYETHANOL ) INHALATION: ATE = 3 MG/L (VAPOURS) ORAL: ATE = 1200 MG/KG BW (CAS: 111-76-2)  
Oral route :

LD50 = 1200 mg/kg body weight

Inhalation route (Vapours) :

LC50 = 3 mg/l  
Duration of exposure : 4 h

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

Oral route :

LD50 >= 5000 mg/kg body weight  
Species : Rat

Dermal route :

LD50 > 5000 mg/kg body weight  
Species : Rat

Inhalation route (Dusts/mist) :

LC50 = 37 mg/l  
Species : Rat  
Duration of exposure : 4 h

XILENE MISCELA DI ISOMERI (BENZENE <0,01%) (CAS: 1330-20-7)

Oral route :

LD50 = 3523 mg/kg body weight  
Species : Rat

Dermal route :

LD50 = 4350 mg/kg body weight  
Species : Rabbit

Inhalation route (Dusts/mist) :

LC50 = 27 mg/l  
Species : Rat

ACETONE (CAS: 67-64-1)

Oral route :

LD50 = 5800 mg/kg body weight  
Species : Rat

Dermal route :

LD50 > 7426 mg/kg body weight  
Species : Rat

Inhalation route (Vapours) :

LC50 = 76 mg/l  
Species : Rabbit  
Duration of exposure : 4 h

ETHYL ACETATE (CAS: 141-78-6)

Oral route :

LD50 > 4934 mg/kg body weight  
Species : Rat

Dermal route :

LD50 > 20000 mg/kg body weight  
Species : Rabbit

Inhalation route (Dusts/mist) :

LC50 < 6000 ppm  
Species : Rat

N-BUTYL ACETATE (CAS: 123-86-4)

Oral route :

LD50 > 6400 mg/kg body weight  
Species : Rat

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Dermal route : LD50 > 5000 mg/kg body weight  
Species : Rabbit

Inhalation route (Dusts/mist) : LC50 = 21 mg/l  
Species : Rat

**b) Skin corrosion/skin irritation :**

No data available.

**c) Serious damage to eyes/eye irritation :**

No data available.

**d) Respiratory or skin sensitisation :**

No data available.

**e) Germ cell mutagenicity :**

No data available.

**f) Carcinogenicity :**

No data available.

**g) Reproductive toxicant :**

No data available.

**h) Specific target organ systemic toxicity - single exposure :**

No data available.

**i) Specific target organ systemic toxicity - repeated exposure :**

No data available.

**j) Aspiration hazard :**

No data available.

**11.1.2. Mixture**

**11.1.2.1 Information on hazard classes**

**a) Acute toxicity :**

Oral route : No data available.  
No data available.

Dermal route :

No data available.

Inhalation route (Dusts/mist) :

**b) Skin corrosion/skin irritation :**

May cause irreversible damage to the skin; namely inflammation of the skin or the formation of erythema and eschar or oedema following exposure up to four hours.

Repeated or prolonged contact with the mixture may cause removal of natural oil from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

**c) Serious damage to eyes/eye irritation :**

May have reversible effects on the eyes, such as eye irritation which is totally reversible by the end of observation at 21 days.  
Splashes in the eyes may cause irritation and reversible damage

**d) Respiratory or skin sensitisation :**

No data available.

**e) Germ cell mutagenicity :**

No data available.

**f) Carcinogenicity :**

No data available.

**g) Reproductive toxicant :**

No data available.

**h) Specific target organ systemic toxicity - single exposure :**

Narcotic effects may occur, such as drowsiness, narcosis, decreased alertness, loss of reflexes, lack of coordination or dizziness.

Effects may also occur in the form of violent headaches or nausea, judgement disorder, giddiness, irritability, fatigue or memory disturbance.



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## i) Specific target organ systemic toxicity - repeated exposure :

No data available.

## j) Aspiration hazard :

No data available.

### 11.1.2.2 Other information

#### Symptoms related to the physical, chemical and toxicological characteristics

Exposure to vapours from solvents in the mixture in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system.

Symptoms produced will include headaches, numbness, dizziness, fatigue, muscular asthenia and, in extreme cases, loss of consciousness.

#### Monograph(s) from the IARC (International Agency for Research on Cancer) :

CAS 67-63-0 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

CAS 111-76-2 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

CAS 13463-67-7 : IARC Group 2B : The agent is possibly carcinogenic to humans.

CAS 1330-20-7 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

### 11.2. Information on other hazards

#### Endocrine disrupting properties

The mixture does not contain any substance evaluated as an endocrine disruptor with effects on human health.

## SECTION 12 : ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### 12.1.1. Substances

2-PROPANOL - ( ISOPROPYL ALCOHOL ) (CAS: 67-63-0)

Fish toxicity : LC50 >= 1000 mg/l  
Species : Others  
Duration of exposure : 96 h

2-BUTOXIETANOL - ( BUTOXYETHANOL ) INHALATION: ATE = 3 MG/L (VAPOURS) ORAL: ATE = 1200 MG/KG BW (CAS: 111-76-2)

Fish toxicity : LC50 = 1880 mg/l  
Species : Leuciscus idus  
Duration of exposure : 48 h

Crustacean toxicity : EC50 <= 5000 mg/l  
Species : Others  
Duration of exposure : 24 h

Algae toxicity : ECr50 <= 1550 mg/l  
Species : Others  
Duration of exposure : 48 h

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

Fish toxicity : LC50 = 180 mg/l  
Species : Oncorhynchus mykiss  
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 500 mg/l  
Species : Daphnia magna

Algae toxicity : ECr50 >= 400 mg/l  
Duration of exposure : 48 h

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XILENE MISCELA DI ISOMERI (BENZENE <0,01%) (CAS: 1330-20-7)

Fish toxicity : LC50 = 2,6 mg/l  
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 1 mg/l  
Species : Daphnia magna  
Duration of exposure : 24 h

Algae toxicity : ECr50 = 3,4 mg/l  
Duration of exposure : 48 h

ACETONE (CAS: 67-64-1)

Fish toxicity : LC50 = 302 mg/l  
Species : Others  
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 4042 mg/l  
Species : Daphnia pulex  
Duration of exposure : 48 h

Algae toxicity : ECr50 = 1680 mg/l  
Species : Others  
Duration of exposure : 48 h

ETHYL ACETATE (CAS: 141-78-6)

Fish toxicity : LC50 > 230 mg/l  
Species : Pimephales promelas  
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 165 mg/l  
Species : Daphnia magna  
Duration of exposure : 48 h

NOEC = 2.4 mg/l  
Species : Others  
Duration of exposure : 7 days

Algae toxicity : ECr50 > 100 mg/l  
Species : Scenedesmus subspicatus  
Duration of exposure : 72 h

NOEC > 100 mg/l  
Species : Scenedesmus subspicatus  
Duration of exposure : 72 h

Aquatic plant toxicity : NOEC > 1 mg/l

N-BUTYL ACETATE (CAS: 123-86-4)

Fish toxicity : LC50 = 18 mg/l  
Species : Pimephales promelas  
Duration of exposure : 96 h

Crustacean toxicity : EC50 44 mg/l  
Species : Daphnia magna  
Duration of exposure : 48 h

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HYDROCARBONS, C3-C4 (PROPANE, BUTANE, ISOBUTANE) (CAS: 68476-40-4)

Fish toxicity : LC50 = 24.11 mg/l  
Duration of exposure : 96 h

Crustacean toxicity : EC50 = 14.22 mg/l  
Duration of exposure : 48 h

## 12.1.2. Mixtures

No aquatic toxicity data available for the mixture.

## 12.2. Persistence and degradability

### 12.2.1. Substances

2-PROPANOL - ( ISOPROPYL ALCOHOL ) (CAS: 67-63-0)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

2-BUTOXIETANOL - ( BUTOXYETHANOL ) INHALATION: ATE = 3 MG/L (VAPOURS) ORAL: ATE = 1200 MG/KG BW (CAS: 111-76-2)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

2-METHOXY-1-METHYLETHYL ACETATE (CAS: 108-65-6)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

XILENE MISCELA DI ISOMERI (BENZENE <0,01%) (CAS: 1330-20-7)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

ACETONE (CAS: 67-64-1)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

ETHYL ACETATE (CAS: 141-78-6)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

N-BUTYL ACETATE (CAS: 123-86-4)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

HYDROCARBONS, C3-C4 (PROPANE, BUTANE, ISOBUTANE) (CAS: 68476-40-4)

Biodegradability : no degradability data is available, the substance is considered as not degrading quickly.

## 12.3. Bioaccumulative potential

No data available.

## 12.4. Mobility in soil

No data available.

## 12.5. Results of PBT and vPvB assessment

No data available.

## 12.6. Endocrine disrupting properties

The mixture does not contain any substance evaluated as an endocrine disruptor with environmental effects.

## 12.7. Other adverse effects

No data available.



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## SECTION 13 : DISPOSAL CONSIDERATIONS

Proper waste management of the mixture and/or its container must be determined in accordance with Directive 2008/98/EC.

### 13.1. Waste treatment methods

Do not pour into drains or waterways.

#### Waste :

Waste management is carried out without endangering human health, without harming the environment and, in particular without risk to water, air, soil, plants or animals.

Recycle or dispose of waste in compliance with current legislation, via a certified collector or company.

Do not contaminate the ground or water with waste, do not dispose of waste into the environment.

#### Soiled packaging :

Empty container completely. Keep label(s) on container.

Give to a certified disposal contractor.

- Packaging waste code:

Cartons code: CER 15.01.01

Caps plastic packaging code: CER 15.01.02

EWC waste code referring to emptied spray cans: 15 01 10\*

- Rejection hazard characteristics:

HP3 = Flammable.

HP4 = Irritant

## SECTION 14 : TRANSPORT INFORMATION

Transport product in compliance with provisions of the ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport (ADR 2023 - IMDG 2022 [41-22] - ICAO/IATA 2024 [65]).

### 14.1. UN number or ID number

1950

### 14.2. UN proper shipping name

UN1950=AEROSOLS, flammable

### 14.3. Transport hazard class(es)

- Classification :



2.1

### 14.4. Packing group

-

- ADR, IMDG, IATA not required

### 14.5. Environmental hazards

- Marine pollutant : No

### 14.6. Special precautions for user

ADR/RID	Class	Code	Pack gr.	Label	Ident.	LQ	Provis.	EQ	Cat.	Tunnel
	2	5F	-	2.1	-	1 L	190 327 344 625	E0	2	D
IMDG	Class	2°Label	Pack gr.	LQ	EMS	Provis.	EQ	Stowage Handling	Segregation	
	2	See SP63	-	See SP277	F-D. S-U	63 190 277 327 344 381 959	E0	- SW1 SW22	SG69	

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IATA	Class	2°Label	Pack gr.	Passager	Passager	Cargo	Cargo	note	EQ
	2.1	-	-	Forbidden	Forbidden	203	150 kg	A1 A145 A167 A802	E0
	2.1	-	-	Forbidden	Forbidden	-	-	A1 A145 A167 A802	E0

For limited quantities, see part 2.7 of the OACI/IATA and chapter 3.4 of the ADR and IMDG.

For excepted quantities, see part 2.6 of the OACI/IATA and chapter 3.5 of the ADR and IMDG.

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

No data available.

## SECTION 15 : REGULATORY INFORMATION

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

EU Directive 2012/18/EU - Seveso III – Annex 1

P3a FLAMMABLE AEROSOLS (see note 11.1)

Category 1 "flammable" aerosols containing Category 1 flammable gases

#### Classification and labelling information included in section 2:

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2023/707.

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2024/2564. (ATP 22)

#### Container information:

No data available.

#### Particular provisions :

No data available.

#### Restrictions applied under Title VIII of Regulation (EC) No. 1907/2006 (REACH):

The mixture does not contain any substance restricted under Annex XVII of Regulation (EC) No. 1907/2006 (REACH):

<https://echa.europa.eu/substances-restricted-under-reach>.

#### Authorisations agreed under Title VII of Regulation (EC) No.1907/2006 (REACH):

The mixture does not contain any substance subject to authorisation according to Annex XIV of REACH Regulation (EC) No 1907/2006:

<https://echa.europa.eu/fr/authorisation-list>.

#### Substances that deplete the ozone layer (EC Regulation No. 1005/2009, Montreal Protocol) :

The mixture does not contain any substance posing a risk to the ozone layer.

#### Persistent organic pollutants (POP) (Regulation (EU) 2019/1021):

The mixture does not contain a persistent organic pollutant.

#### PIC Regulation (EU) No 649/2012 concerning the export and import of hazardous chemicals (Rotterdam Convention):

The mixture is not subject to the Prior Informed Consent (PIC) procedure.

#### Explosives precursors :

The mixture contains at least one substance subject to Regulation (EU) 2019/1148 on the marketing and use of explosives precursors:

- Acetone (CAS 67-64-1)

The acquisition, introduction, possession or use of this restricted explosive precursor by members of the general public is subject to the reporting obligations.

#### Swiss ordinance on the incentive tax on volatile organic compounds :

1330-20-7

xylènes (mélanges d'isomères)

67-63-0

propane-2-ol (alcool isopropylique)

111-76-2

2-n-butoxyéthanol

108-65-6

acétate de 1-méthoxy-2-propyle

123-86-4

acétate de n-butyle

141-78-6

acétate d'éthyle

67-64-1

acétone

#### 15.2. Chemical safety assessment

The exposure scenarios of the substances leading to the classification of the mixture are available.

A chemical safety assessment has not been carried out.

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## SECTION 16 : OTHER INFORMATION

Since the user's working conditions are not known by us, the information supplied on this safety data sheet is based on our current level of knowledge and on national and community regulations.

The mixture must not be used for other uses than those specified in section 1 without having first obtained written handling instructions.

It is at all times the responsibility of the user to take all necessary measures to comply with legal requirements and local regulations.

The information in this safety data sheet must be regarded as a description of the safety requirements relating to the mixture and not as a guarantee of the properties thereof.

### Wording of the phrases mentioned in section 3 :

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer .
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
H413	Possible long term effects in the environment.
H414	Very toxic to aquatic life.
H415	Toxic to aquatic life.
H416	Possible long term effects in the environment.
H417	Very toxic to aquatic life.
H418	Toxic to aquatic life.
H419	Possible long term effects in the environment.
H420	Extremely flammable gas.
H421	Highly flammable liquid and vapour.
H422	Flammable liquid and vapour.
H423	Contains gas under pressure; may explode if heated.
H424	Harmful if swallowed.
H425	Harmful in contact with skin.
H426	Causes skin irritation.
H427	Causes serious eye irritation.
H428	Toxic if inhaled.
H429	Harmful if inhaled.
H430	May cause drowsiness or dizziness.
H431	Suspected of causing cancer .
H432	Repeated exposure may cause skin dryness or cracking.

### Abbreviations and acronyms :

LD50 : The dose of a test substance resulting in 50% lethality in a given time period.  
LC50 : The concentration of a test substance resulting in 50% lethality in a given period.  
EC50 : The effective concentration of substance that causes 50% of the maximum response.  
ECr50 : The effective concentration of substance that causes 50% reduction in growth rate.  
NOEC : The concentration with no observed effect.  
REACH : Registration, Evaluation, Authorization and Restriction of Chemical Substances.  
ATE : Acute Toxicity Estimate  
BW : Body Weight  
DNEL : Derived No-Effect Level  
PNEC : Predicted No-Effect Concentration  
STEL : Short-term exposure limit  
TWA : Time Weighted Averages  
TMP : French Occupational Illness table  
TLV : Threshold Limit Value (exposure)  
AEV : Average Exposure Value.  
VLRI : Indicative limit value  
VLRC : Indicative constraint value  
ADR : European agreement concerning the international carriage of dangerous goods by Road.  
GHS02 : Flame  
GHS07 : Exclamation mark  
IATA : International Air Transport Association.  
IMDG : International Maritime Dangerous Goods.  
ICAO : International Civil Aviation Organisation  
PBT: Persistent, bioaccumulable and toxic.  
PIC: Prior Informed Consent.  
POP: Persistent Organic Pollutant.  
RID : Regulations concerning the International carriage of Dangerous goods by rail.  
SVHC : Substances of very high concern.  
vPvB : Very persistent, very bioaccumulable.

# Safety data sheets Ferney Group BV

Date : 30-06-2025  
VVFK(E) : 18/1513261, 1513262, 1513263  
Rev : G  
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Opgesteld door: SK	Bekrachtigd door: GL
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