

(REACH regulation (EC) n° 1907/2006 - n° 2020/878)

Association/Organisation : INRS / ORFILA <http://www.centres-antipoison.net>.

The mixture does not contain substances > 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.

|                                                                                                              |                                                              |      |                 |
|--------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------|------|-----------------|
| Identification                                                                                               | (EC) 1272/2008                                               | Note | %               |
| INDEX: 603-064-00-3<br>CAS: 107-98-2<br>EC: 203-539-1<br>REACH: 01-2119457435-35<br><br>1-METHOXY-2-PROPANOL | GHS02, GHS07<br>Wng<br>Flam. Liq. 3, H226<br>STOT SE 3, H336 | [1]  | 2.5 <= x % < 10 |

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|                                                                                                         |                                                                                                                             |     |                 |
|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----|-----------------|
| INDEX: 603_014_00_0<br>CAS: 111-76-2<br>EC: 203-905-0<br>REACH: 01-2119475108-36<br><br>2-BUTOXYETHANOL | GHS07<br>Wng<br>Acute Tox. 4, H302<br>Acute Tox. 4, H312<br>Skin Irrit. 2, H315<br>Eye Irrit. 2, H319<br>Acute Tox. 4, H332 | [1] | 2.5 <= x % < 10 |
|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----|-----------------|

**Specific concentration limits:**

| Identification                                                                                          | Specific concentration limits | ATE                                                                       |
|---------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------|
| INDEX: 603_014_00_0<br>CAS: 111-76-2<br>EC: 203-905-0<br>REACH: 01-2119475108-36<br><br>2-BUTOXYETHANOL |                               | inhalation: ATE = 2.21 mg/l 4h<br>(dust/mist)<br>oral: ATE = 560 mg/kg BW |

**Information on ingredients :**

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

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

**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 swallowing :**

Seek medical attention, showing 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**

Non-flammable.

**5.1. Extinguishing media**

**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.

**5.3. Advice for firefighters**

Due to the toxicity of the gas emitted on thermal decomposition of the products, 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 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.

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

Clean preferably with a detergent, do not use solvents.

Use some absorbent.

The elimination must be carried out by a registered salvage professional.

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**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.

**Fire prevention :**

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.

**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.

**Packaging**

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

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

No data available.

**SECTION 8 : EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**Occupational exposure limits :**

- European Union (2022/431, 2019/1831, 2017/2398, 2017/164, 2009/161, 2006/15/CE, 2000/39/CE, 98/24/CE) :

| CAS      | VME-mg/m3 : | VME-ppm : | VLE-mg/m3 : | VLE-ppm : | Notes : |
|----------|-------------|-----------|-------------|-----------|---------|
| 107-98-2 | 375         | 100       | 568         | 150       | Peau    |
| 111-76-2 | 98          | 20        | 246         | 50        | Peau    |

- ACGIH TLV (American Conference of Governmental Industrial Hygienists, Threshold Limit Values, 2010) :

| CAS      | TWA :   | STEL :  | Ceiling : | Definition : | Criteria : |
|----------|---------|---------|-----------|--------------|------------|
| 107-98-2 | 100 ppm | 150 ppm |           |              |            |
| 111-76-2 | 20 ppm  |         |           | A3; BEI      |            |

- Germany - AGW (BAuA - TRGS 900, 02/2022) :

| CAS      | VME : | VME :                            | Excess | Notes |
|----------|-------|----------------------------------|--------|-------|
| 107-98-2 |       | 100 ppm<br>370 mg/m <sup>3</sup> |        | 2(I)  |
| 111-76-2 |       | 10 ppm<br>49 mg/m <sup>3</sup>   |        | 2(I)  |

- France (INRS - Outils 65 / 2021-1849, 2021-1763, decree of 09/12/2021) :

| CAS      | VME-ppm : | VME-mg/m3 : | VLE-ppm : | VLE-mg/m3 : | Notes : | TMP No : |
|----------|-----------|-------------|-----------|-------------|---------|----------|
| 107-98-2 | 50        | 188         | 100       | 375         | *       | 84       |
| 111-76-2 | 10        | 49          | 50        | 246         | *       | 84       |

- UK / WEL (Workplace exposure limits, EH40/2005, Fourth Edition 2020) :

| CAS      | TWA :                            | STEL :                           | Ceiling : | Definition : | Criteria : |
|----------|----------------------------------|----------------------------------|-----------|--------------|------------|
| 107-98-2 | 100 ppm<br>375 mg/m <sup>3</sup> | 150 ppm<br>560 mg/m <sup>3</sup> |           | Sk           |            |
| 111-76-2 | 25 ppm<br>123 mg/m <sup>3</sup>  | 50 ppm<br>246 mg/m <sup>3</sup>  |           | Sk. BMGV     |            |

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**Derived no effect level (DNEL) or derived minimum effect level (DMEL): 2-BUTOXYETHANOL (CAS: 111-76-2)**

**Final use:**

Exposure method:  
Potential health effects:

DNEL :

Exposure method:  
Potential health effects:

DNEL :

Exposure method:  
Potential health effects:

DNEL :

Exposure method:  
Potential health effects:  
DNEL :

Exposure method:  
Potential health effects:

DNEL :

**Final use:**

Exposure method:  
Potential health effects:

DNEL :

Exposure method:  
Potential health effects:

DNEL :

Exposure method:  
Potential health effects:

DNEL :

Exposure method:  
Potential health effects:

DNEL :

Exposure method:  
Potential health effects:

DNEL :

Exposure method:  
Potential health effects:  
DNEL :

**Workers.**

Dermal contact.  
Short term systemic effects.  
89 mg/kg body weight/day

Dermal contact.  
Long term systemic effects.  
75 mg/kg body weight/day

Inhalation.  
Short term systemic effects.  
663 mg of substance/m3

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

Inhalation.  
Long term systemic effects.  
98 mg of substance/m3

**Consumers.**

Ingestion.  
Short term systemic effects.  
13.4 mg/kg body weight/day

Ingestion.  
Long term systemic effects.  
3.2 g/kg body weight/day

Dermal contact.  
Short term systemic effects.  
44.5 mg/kg body weight/day

Dermal contact.  
Long term systemic effects.  
38 mg/kg body weight/day

Inhalation.  
Short term systemic effects.  
426 mg of substance/m3

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

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|                           |                             |
|---------------------------|-----------------------------|
| Exposure method:          | Inhalation.                 |
| Potential health effects: | Long term systemic effects. |
| DNEL :                    | 49 mg of substance/m3       |

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

2-BUTOXYETHANOL (CAS: 111-76-2)

|                            |           |
|----------------------------|-----------|
| Environmental compartment: | Soil.     |
| PNEC :                     | 2.8 mg/kg |

|                            |              |
|----------------------------|--------------|
| Environmental compartment: | Fresh water. |
| PNEC :                     | 8.8 mg/l     |

|                            |            |
|----------------------------|------------|
| Environmental compartment: | Sea water. |
| PNEC :                     | 0.88 mg/l  |

|                            |                       |
|----------------------------|-----------------------|
| Environmental compartment: | Fresh water sediment. |
| PNEC :                     | 34.6 mg/kg            |

|                            |                  |
|----------------------------|------------------|
| Environmental compartment: | Marine sediment. |
| PNEC :                     | 3.46 mg/kg       |

**8.2. Exposure controls**

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

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 in accordance with standard EN166.

**- Hand protection**

Wear suitable protective gloves in the event of prolonged or repeated skin contact.

**- Body protection**

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.

**SECTION 9 : PHYSICAL AND CHEMICAL PROPERTIES**

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

**Physical state**

|                  |                 |
|------------------|-----------------|
| Physical state : | Viscous liquid. |
|------------------|-----------------|

**Colour**

Unspecified

**Odour**

|                   |             |
|-------------------|-------------|
| Odour threshold : | Not stated. |
|-------------------|-------------|

**Melting point**

|                               |                |
|-------------------------------|----------------|
| Melting point/melting range : | Not specified. |
|-------------------------------|----------------|

**Freezing point**

|                                   |             |
|-----------------------------------|-------------|
| Freezing point / Freezing range : | Not stated. |
|-----------------------------------|-------------|

**Boiling point or initial boiling point and boiling range**

|                               |                |
|-------------------------------|----------------|
| Boiling point/boiling range : | Not specified. |
|-------------------------------|----------------|

**Flammability**

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|                                                                  |                           |
|------------------------------------------------------------------|---------------------------|
| Flammability (solid, gas) :                                      | Not stated.               |
| <b>Lower and upper explosion limit</b>                           |                           |
| Explosive properties, lower explosivity limit (%) :              | Not stated.               |
| Explosive properties, upper explosivity limit (%) :              | Not stated.               |
| <b>Flash point</b>                                               |                           |
| Flash point interval : <b>Auto-ignition temperature</b>          | Not relevant.             |
| Self-ignition temperature :                                      | Not specified.            |
| <b>Decomposition temperature</b>                                 |                           |
| Decomposition point/decomposition range :                        | Not specified.            |
| <b>pH</b>                                                        |                           |
| pH :                                                             | Not stated.<br>Neutral.   |
| pH (aqueous solution) :                                          | Not stated.               |
| <b>Kinematic viscosity</b>                                       |                           |
| Viscosity :                                                      | Not stated.               |
| <b>Solubility</b>                                                |                           |
| Water solubility :                                               | Dilutable.                |
| Fat solubility :                                                 | Not stated.               |
| <b>Partition coefficient n-octanol/water (log value)</b>         |                           |
| Partition coefficient: n-octanol/water :                         | Not stated.               |
| <b>Vapour pressure</b>                                           |                           |
| Vapour pressure (50°C) :                                         | Below 110 kPa (1.10 bar). |
| <b>Density and/or relative density</b>                           |                           |
| Density :                                                        | = 1                       |
| <b>Relative vapour density</b>                                   |                           |
| Vapour density :                                                 | Not stated.               |
| <b>9.2. Other information</b>                                    | No data available.        |
| <b>9.2.1. Information with regard to physical hazard classes</b> | No data available.        |
| <b>9.2.2. Other safety characteristics</b>                       | No data available.        |

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**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**No data available.
- 10.4. Conditions to avoid**Avoid :  
- frost
- 10.5. Incompatible materials**No data available.
- 10.6. Hazardous decomposition products**No data available.

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**SECTION 11 : TOXICOLOGICAL INFORMATION**

- 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**  
No data available.
- 11.1.1. Substances**Acute toxicity :

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**2-BUTOXYETHANOL (CAS: 111-76-2)**

|                                 |                                                                                          |
|---------------------------------|------------------------------------------------------------------------------------------|
| Oral route :                    | LD50 = 560 mg/kg<br>Species : Rat (recommended by the CLP)                               |
| Dermal route :                  | 1,000 < LD50 <= 2000 mg/kg<br>Species : Rabbit (recommended by the CLP)                  |
| Inhalation route (Dusts/mist) : | LC50 = 2.21 mg/l<br>Species : Rat (recommended by the CLP)<br>Duration of exposure : 4 h |

**11.1.2. Mixture**

No toxicological data available for the mixture.

**11.2. Information on other hazards**

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

CAS 5989-27-5 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

CAS 140-11-4 : IARC Group 3 : The agent is not classifiable as to its carcinogenicity to humans.

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.

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**SECTION 12 : ECOLOGICAL INFORMATION**

**12.1. Toxicity**

**12.1.2. Mixtures**

No aquatic toxicity data available for the mixture.

**12.2. Persistence and**

**degradability**No data available.

**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**No data available.

**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, preferably 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.

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**SECTION 14 : TRANSPORT INFORMATION**

Exempt from transport classification and labelling.

**14.1. UN number or ID number**

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**14.2. UN proper shipping name**

-

**14.3. Transport hazard class(es)**

-

**14.4. Packing group**

-

**14.5. Environmental hazards**

-

**14.6. Special precautions for user**

-

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**SECTION 15: Regulatory information**

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

**- Classification and labelling information included in section 2:**

The following regulations have been used:

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/643 (ATP 16)

- EU Regulation No. 1272/2008 amended by EU Regulation No. 2021/849 (ATP 17)

**- Container information:**

No data available.

**- Particular provisions :**

No data available.

**- Labelling for detergents (EC Regulation No. 648/2004,907/2006) :** - perfumes

**15.2. Chemical safety assessment**

No data available.

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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 :**

|      |                                    |
|------|------------------------------------|
| H226 | Flammable liquid and vapour.       |
| H302 | Harmful if swallowed.              |
| H312 | Harmful in contact with skin.      |
| H315 | Causes skin irritation.            |
| H319 | Causes serious eye irritation.     |
| H332 | Harmful if inhaled.                |
| H336 | May cause drowsiness or dizziness. |

**Abbreviations :**

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.

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 UFI :

Unique formulation identifier.

STEL : Short-term exposure limit

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TWA : Time Weighted Averages

TMP : French Occupational Illness table

TLV : Threshold Limit Value (exposure)

AEV : Average Exposure Value.

ADR : European agreement concerning the international carriage of dangerous goods by Road.

IMDG : International Maritime Dangerous Goods.

IATA : International Air Transport Association.

ICAO : International Civil Aviation Organisation

RID : Regulations concerning the International carriage of Dangerous goods by rail.

WGK : Wassergefährdungsklasse (Water Hazard Class).

PBT: Persistent, bioaccumulable and toxic.

vPvB : Very persistent, very bioaccumulable.

SVHC : Substances of very high concern.