

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

- 1.1 Product identifier
- Trade name: **Thinner 26**
- Article number: 0526
- 1.2 Relevant identified uses of the substance or mixture and uses advised against
- Sector of Use
  - SU3 Industrial uses: use of substances as such or in preparations in an industrial environment
  - SU22 Professional use: Public domain (administration, education, entertainment, services, craftsmen)
- Application of the substance / the mixture Thinner, Diluent
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
  - Carboline
  - Carrer Numancia 185,
  - Entresuelo, 08034,
  - Barcelona, Espana.
  - +34 93 209 60 19
- Further information obtainable from: regulatoryeurope@carboline.com
- 1.4 Emergency telephone number:
  - CHEMTREC 1-800-424-9300 (Inside US)
  - CHEMTREC +1 703 5273887 (Outside US)
  - HEALTH - Pittsburgh Poison Control 1-412-681-6669

## \* SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 3 H226 Flammable liquid and vapour.



GHS06 skull and crossbones

Acute Tox. 3 H331 Toxic if inhaled.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

STOT SE 3 H336 May cause drowsiness or dizziness.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008
  - The product is classified and labelled according to the GB CLP regulation.
- Hazard pictograms



GHS02



GHS06

- Signal word Danger
- Hazard-determining components of labelling:
  - 2-butoxyethanol
  - 1-methoxy-2-propanol
- Hazard statements
  - H226 Flammable liquid and vapour.
  - H331 Toxic if inhaled.

(Contd. on page 2)

— GB —

# Safety data sheet according to UK REACH



Printing date 27.03.2025

Version number 9 (replaces version 8)

Revision: 27.03.2025

Trade name: **Thinner 26**

(Contd. of page 1)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

## Precautionary statements

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P284 In case of inadequate ventilation wear respiratory protection.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

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.

P314 Get medical advice/attention if you feel unwell.

## Additional information:

Restricted to professional users.

## 2.3 Other hazards

## Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Description: Mixture of substances listed below with nonhazardous additions.

### Dangerous components %(m/m):

CAS: 107-98-2 1-methoxy-2-propanol 50-75%

EINECS: 203-539-1 ⚠ Flam. Liq. 3, H226; ⚠ STOT SE 3, H336

Reg.nr.: 01-2119457435-35

CAS: 111-76-2 2-butoxyethanol 25-50%

EINECS: 203-905-0 ⚠ Acute Tox. 3, H331; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319

Reg.nr.: 01-2119475108-36 ATE: LD50 oral: 1,200 mg/kg  
LC50/4h inhalative: 3 mg/l

CAS: 1589-47-5 2-methoxypropanol &lt;0.3%

EINECS: 216-455-5 ⚠ Flam. Liq. 3, H226; ⚠ Repr. 1B, H360D; ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; STOT SE 3, H335

Additional information: For the wording of the listed hazard phrases refer to section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information:

Immediately remove any clothing soiled by the product.

Remove breathing equipment only after contaminated clothing have been completely removed.

In case of irregular breathing or respiratory arrest provide artificial respiration.

#### After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness place patient stably in side position for transportation.

#### After skin contact:

Immediately wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

#### After eye contact:

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

Contact lens removal.

#### After swallowing:

Rinse mouth.

Do not induce vomiting; call for medical help immediately.

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

No further relevant information available.

(Contd. on page 3)

GB —

Trade name: **Thinner 26**

(Contd. of page 2)

- 4.3 Indication of any immediate medical attention and special treatment needed  
No further relevant information available.

### \* SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents: CO<sub>2</sub> or powder. Fight larger fire with alcohol-resistant foam.
- 5.2 Special hazards arising from the substance or mixture Carbon monoxide (CO)
- 5.3 Advice for firefighters
- Protective equipment: Wear self-contained respiratory protective device.

### \* SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures  
Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions:  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to section 13.  
Ensure adequate ventilation.  
Collect leaking liquid in sealable waste containers.
- 6.4 Reference to other sections  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### \* SECTION 7: Handling and storage

- 7.1 Precautions for safe handling  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.
- Information about fire - and explosion protection:  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Keep respiratory protective device available.
- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:  
Requirements to be met by storerooms and receptacles: Store only in the original receptacle.
- Information about storage in one common storage facility:  
Store away from oxidising agents.  
Keep separate from strong bases.
- Further information about storage conditions: Keep container tightly sealed.
- Storage class: 3
- 7.3 Specific end use(s) No further relevant information available.

### \* SECTION 8: Exposure controls/personal protection

- 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

#### 107-98-2 1-methoxy-2-propanol

WEL Short-term value: 560 mg/m<sup>3</sup>, 150 ppm  
Long-term value: 375 mg/m<sup>3</sup>, 100 ppm  
Sk

#### 111-76-2 2-butoxyethanol

WEL Short-term value: 246 mg/m<sup>3</sup>, 50 ppm  
Long-term value: 123 mg/m<sup>3</sup>, 25 ppm  
Sk, BMGV

(Contd. on page 4)

# Safety data sheet according to UK REACH

Printing date 27.03.2025

Version number 9 (replaces version 8)

Revision: 27.03.2025

Trade name: **Thinner 26**

(Contd. of page 3)

## · DNELs

**107-98-2 1-methoxy-2-propanol**

Dermal	Acute - short-term exposure - systemic effects	553.5 mg/kg (worker)
	Long-term exposure - systemic effects	183 mg/kg bw/day (worker)
Inhalative	Acute - short-term exposure - local effects	553.5 mg/m <sup>3</sup> (worker)
	Long-term exposure - systemic effects	369 mg/m <sup>3</sup> (worker)

**111-76-2 2-butoxyethanol**

Inhalative	Acute - short-term exposure - systemic effects	1,091 mg/m <sup>3</sup> (worker)
	Acute - short-term exposure - local effects	246 mg/m <sup>3</sup> (worker)
	Long-term exposure - systemic effects	98 mg/m <sup>3</sup> (worker)

## · PNECs

**107-98-2 1-methoxy-2-propanol**

PNEC	5.2 mg/kg (sediment marine water)
	52.3 mg/kg (sediment freshwater)
	4.59 mg/kg (soil)
PNEC	100 mg/l (STP)
	10 mg/l (aqua, freshwater)
	1 mg/l (aqua, marine water)

**111-76-2 2-butoxyethanol**

PNEC	3.46 mg/kg (sediment marine water)
	34.6 mg/kg (sediment freshwater)
	2.33 mg/kg (soil)
PNEC	463 mg/l (STP)
	8.8 mg/l (aqua, freshwater)
	26.4 mg/l (aqua, intermittent releases)
	0.88 mg/l (aqua, marine water)

## · Ingredients with biological limit values:

**111-76-2 2-butoxyethanol**

BMGV	240 mmol/mol creatinine
Medium:	urine
Sampling time:	post shift
Parameter:	butoxyacetic acid

## · Additional information: The lists valid during the making were used as basis.

## · 8.2 Exposure controls

- Appropriate engineering controls Ensure adequate ventilation.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:
  - Keep away from foodstuffs, beverages and feed.
  - Immediately remove all soiled and contaminated clothing
  - Wash hands before breaks and at the end of work.
  - Store protective clothing separately.
  - Avoid contact with the eyes and skin.

## · Respiratory protection:

Short term filter device:

Filter type A.

If workers are exposed to concentrations above the exposure limit, they should use a suitable, certified respirator.

## · Hand protection



Protective gloves

The glove material has to be impermeable and resistant to the product.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

(Contd. on page 5)

GB —

Trade name: **Thinner 26**

(Contd. of page 4)

- Material of gloves  
Suitable material for safety gloves (EN 374):  
Butyl rubber, BR
- Penetration time of glove material  
Permeation value: Level  $\geq$  480 min (1-methoxy-2-propanol)  
Thickness of gloves  $\geq$  0.5 mm (1-methoxy-2-propanol).  
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye/face protection



Tightly sealed goggles

- Body protection: Solvent resistant protective clothing
- Environmental exposure controls No additional data. See 6 and 13.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

- |  |   |
|--|---|
| • General Information                                      |   |
| • Physical state   | Fluid   |
| • Colour:  | Clear   |
| • Odour:   | Characteristic                                  |
| • Odour threshold:   | Not determined.                                 |
| • Melting point/freezing point:                            | Undetermined.                                   |
| • Boiling point or initial boiling point and boiling range | $\geq 120.3$ °C (107-98-2 1-methoxy-2-propanol) |
| • Flammability   | Flammable.                                      |
| • Lower and upper explosion limit                          |   |
| • Lower:   | $\geq 1.1$ Vol % (111-76-2 2-butoxyethanol)     |
| • Upper:   | $\sim 20$ Vol % (107-98-2 1-methoxy-2-propanol) |
| • Flash point:   | 41 °C   |
| • Auto-ignition temperature:                               | 240 °C  |
| • Decomposition temperature:                               | Not determined.                                 |
| • pH   | Not determined.                                 |
| • Viscosity:   |   |
| • Kinematic viscosity                                      | Not determined.                                 |
| • Dynamic at 20 °C:  | 1 mPas  |
| • Solubility   |   |
| • water:   | Slightly soluble.                               |
| • Partition coefficient n-octanol/water (log value)        | Not determined.                                 |
| • Vapour pressure at 20 °C:                                | $\leq 13.3$ hPa (107-98-2 1-methoxy-2-propanol) |
| • Vapour pressure at 50 °C:                                | $\leq 5.3$ hPa                                  |
| • Density and/or relative density                          |   |
| • Density at 20 °C:  | 0.93 g/cm <sup>3</sup>                          |
| • Relative density   | Not determined.                                 |
| • Vapour density   | Not determined.                                 |

### 9.2 Other information

- |   |   |
|---|---|
| • Appearance:   |   |
| • Form:   | Liquid  |
| • Important information on protection of health and environment, and on safety. |   |
| • Ignition temperature:   | Product is not selfigniting.  |
| • Explosive properties:   | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| • Solvent content:  |   |
| • Organic solvents:   | 100.0 %   |
| • VOC (EC)  | 930.3 g/l   |
|   | 100.00 %  |
| • Solids content:   | 0.0 %   |

(Contd. on page 6)

# Safety data sheet according to UK REACH



Printing date 27.03.2025

Version number 9 (replaces version 8)

Revision: 27.03.2025

Trade name: **Thinner 26**

(Contd. of page 5)

· Change in condition	
· Evaporation rate	Not determined.
· Information with regard to physical hazard classes	
· Explosives	Void
· Flammable gases	Void
· Aerosols	Void
· Oxidising gases	Void
· Gases under pressure	Void
· Flammable liquids	Flammable liquid and vapour.
· Flammable solids	Void
· Self-reactive substances and mixtures	Void
· Pyrophoric liquids	Void
· Pyrophoric solids	Void
· Self-heating substances and mixtures	Void
· Substances and mixtures, which emit flammable gases in contact with water	Void
· Oxidising liquids	Void
· Oxidising solids	Void
· Organic peroxides	Void
· Corrosive to metals	Void
· Desensitised explosives	Void

## SECTION 10: Stability and reactivity

- 10.1 Reactivity No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions
  - Reacts with oxidising agents.
  - Reacts with strong oxidizing agents.
- 10.4 Conditions to avoid High temperatures
- 10.5 Incompatible materials: Strong oxidising products.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

## SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Toxic if inhaled.
- LD/LC50 values relevant for classification:

### 107-98-2 1-methoxy-2-propanol

Oral LD50 4,016 mg/kg (rat)  
 Dermal LD50 >2,000 mg/kg (rat)  
 Inhalative LC50/6h >25.8 mg/l (rat)

### 111-76-2 2-butoxyethanol

Oral LD50 1,200 mg/kg (ATE)  
 Dermal LD50 >2,000 mg/kg (cv)  
 Inhalative LC50/4h 3 mg/l (ATE)

- Primary irritant effect:
- Skin corrosion/irritation Causes skin irritation.
- Serious eye damage/irritation Causes serious eye irritation.
- STOT-single exposure May cause drowsiness or dizziness.
- 11.2 Information on other hazards
- Endocrine disrupting properties

None of the ingredients is listed.

— GB —  
 (Contd. on page 7)

Trade name: **Thinner 26**

(Contd. of page 6)

## SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity:

### 107-98-2 1-methoxy-2-propanol

EC50/96h >1,000 mg/l (selenastrum capricornutum)  
 LC50/48h (static) 21,100-25,900 mg/l (daphnia magna)  
 IC50/3h 1,000 mg/l (ac) (OECD 209)  
 LC50/96h 38,412 mg/l (leuciscus idus)  
 >1,000 mg/l (oncorhynchus mykiss) (OECD 203)  
 20,800 mg/l (pimphales promelas)

### 111-76-2 2-butoxyethanol

EC50/48h >100 mg/l (daphnia magna) (OESO 202)  
 EC50/72h >100 mg/l (pseudokirchneriella subcapitata)  
 LC50/96h 1,250 mg/l (menidia beryllina) (OECD 203)

- 12.2 Persistence and degradability No further relevant information available.
- Degree of elimination:

### 107-98-2 1-methoxy-2-propanol

BOD/28d 96 % (/) (OECD 301E)

### 111-76-2 2-butoxyethanol

BOD/28d 90.4 % (/) (OECD TG 301 B)

- 12.3 Bioaccumulative potential

### 107-98-2 1-methoxy-2-propanol

BCF <100 (/)  
 LogPow 0.37 (/)

### 111-76-2 2-butoxyethanol

BCF <100 (/)  
 LogPow 0.81 (/)

- 12.4 Mobility in soil No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.
- 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- 12.7 Other adverse effects
- Additional ecological information:
- General notes:  
 Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
 Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

## SECTION 13: Disposal considerations

- 13.1 Waste treatment methods
- Recommendation  
 Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
- Recommendation: Disposal must be made according to official regulations.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

## SECTION 14: Transport information

- 14.1 UN number or ID number
- ADR/ADN, IMDG, IATA UN1263

(Contd. on page 8)



# Safety data sheet according to UK REACH

Printing date 27.03.2025

Version number 9 (replaces version 8)

Revision: 27.03.2025

Trade name: **Thinner 26**

(Contd. of page 7)

- 14.2 UN proper shipping name
- ADR/ADN
- IMDG, IATA
- 14.3 Transport hazard class(es)
- ADR/ADN, IMDG, IATA

1263 PAINT RELATED MATERIAL  
PAINT RELATED MATERIAL



- Class 3 Flammable liquids.
- Label 3
- 14.4 Packing group
- ADR/ADN, IMDG, IATA III
- 14.5 Environmental hazards:
- Marine pollutant: No
- 14.6 Special precautions for user Warning: Flammable liquids.
- Hazard identification number (Kemler code): 30
- EMS Number: F-E,S-E
- Stowage Category A
- 14.7 Maritime transport in bulk according to IMO instruments Not applicable.

· Transport/Additional information:

- ADR/ADN
- Limited quantities (LQ) 5L
- Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml
- Transport category 3
- Tunnel restriction code D/E

- IMDG
- Limited quantities (LQ) 5L
- Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml
- UN "Model Regulation": UN 1263 PAINT RELATED MATERIAL, 3, III

## SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- Poisons Act
- Regulated explosives precursors
- None of the ingredients is listed.
- Regulated poisons
- None of the ingredients is listed.
- Reportable explosives precursors
- None of the ingredients is listed.
- Reportable poisons
- None of the ingredients is listed.
- Directive 2012/18/EU
- Named dangerous substances - ANNEX I None of the ingredients is listed.
- Seveso category
- H2 ACUTE TOXIC
- P5c FLAMMABLE LIQUIDS

(Contd. on page 9)



# Safety data sheet according to UK REACH



Printing date 27.03.2025

Version number 9 (replaces version 8)

Revision: 27.03.2025

Trade name: **Thinner 26**

(Contd. of page 8)

- Qualifying quantity (tonnes) for the application of lower-tier requirements 50 t
- Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t
- National regulations:
- Other regulations, limitations and prohibitive regulations  
The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## \* SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Relevant phrases  
H226 Flammable liquid and vapour.  
H302 Harmful if swallowed.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
H331 Toxic if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.  
H360D May damage the unborn child.
- Abbreviations and acronyms:  
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
ADR: Accord relatif au transport international 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 Harmonised 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 (division of the American Chemical Society)  
VOC: Volatile Organic Compounds (USA, EU)  
DNEL: Derived No-Effect Level (UK REACH)  
PNEC: Predicted No-Effect Concentration (UK REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
ATE: Acute toxicity estimate values  
Flam. Liq. 3: Flammable liquids – Category 3  
Acute Tox. 4: Acute toxicity – Category 4  
Acute Tox. 3: Acute toxicity – Category 3  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Repr. 1B: Reproductive toxicity – Category 1B  
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
- \* Data compared to the previous version altered.

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