

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 12.06.2020

Version: 5

Revision: 12.06.2020

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

1.1 Product identifier

Trade name: **ZEPYNAMIC A EU**

Article number: 98460001

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

Sector of Use SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Product category PC28 Perfumes, fragrances

Process category PROC7 Industrial spraying

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

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United Kingdom
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Fax: +44 (0)151 422 1011
@: info@zep.co.uk
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Further information obtainable from:

Customer Service

NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710

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IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61

UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

1.4 Emergency telephone number:

Customer Service

NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710

B: Tel: +32 2 347 0117 Fax: +32 2 347 1395

IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61

UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

EU: Tel. 112

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

Eye Irrit. 2 H319 Causes serious eye irritation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS02

GHS07

Signal word Danger

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Hazard statements

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.

H319 Causes serious eye irritation.

Precautionary statements

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

P211 Do not spray on an open flame or other ignition source.

P251 Do not pierce or burn, even after use.

P280 Wear eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

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

Additional information:

Contains 4-(4-hydroxy-4-methylpentyl)cyclohex-3-enecarbaldehyde. May produce an allergic reaction.

2.3 Other hazards The product does not contain any organic halogen compounds (AOX), nitrates, heavy metal compounds.**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:**

CAS: 64-17-5 EINECS: 200-578-6 Reg.nr.: 01-2119457610-43-xxxx	ethanol ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319	50-70%
CAS: 106-97-8 EINECS: 203-448-7 Reg.nr.: 01-2119474691-32-xxxx	butane (< 0.1% butadine) ⚠ Flam. Gas 1, H220 Press. Gas (Comp.), H280	10-25%
CAS: 74-98-6 EINECS: 200-827-9 Reg.nr.: 012119486944-21-xxxx	propane ⚠ Flam. Gas 1, H220 Press. Gas (Comp.), H280	5-10%
CAS: 75-28-5 EINECS: 200-857-2 Reg.nr.: 01-2119485395-27-xxxx	isobutane (<0.1% butadine) ⚠ Flam. Gas 1, H220 Press. Gas (Comp.), H280	1-2.5%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol ⚠ Flam. Liq. 2, H225 ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	2.5-5%
CAS: 90-43-7 EINECS: 201-993-5	biphenyl-2-ol ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410 ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	0.1-1%
CAS: 68439-50-9 NLP: 500-213-3 Reg.nr.: 01-2449487984-16-xxxx	Alcohol ethoxylate C12-C14 ⚠ Aquatic Acute 1, H400 ⚠ Eye Irrit. 2, H319 Aquatic Chronic 3, H412	0.1-1%

Ingredients according to Detergents Regulation 648/2004/EC 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.**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:** If skin irritation continues, consult a doctor.**After swallowing:** Seek immediate medical advice.**4.2 Most important symptoms and effects, both acute and delayed** No further relevant information available.**4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

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SECTION 5: Firefighting measures

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:** CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- **5.3 Advice for firefighters**
- **Protective equipment:** No special measures required.
- **Additional information** Cool endangered receptacles with water spray.

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:** Do not allow to enter sewers/ surface or ground water.
- **6.3 Methods and material for containment and cleaning up:** Ensure adequate ventilation.
- **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** Keep away from heat and direct sunlight.
- **Information about fire - and explosion protection:**
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**
Keep receptacle tightly sealed.
Protect from heat and direct sunlight.
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical facilities:** No further data; see item 7.
- **8.1 Control parameters**

· **Ingredients with limit values that require monitoring at the workplace:**

64-17-5 ethanol (50-70%)

WEL (Great Britain) Long-term value: 1920 mg/m³, 1000 ppm

106-97-8 butane (< 0.1% butadiene) (10-25%)

WEL (Great Britain) Short-term value: 1810 mg/m³, 750 ppm
Long-term value: 1450 mg/m³, 600 ppm
Carc (if more than 0.1% of buta-1,3-diene)

67-63-0 propan-2-ol (2.5-5.0%)

WEL (Great Britain) Short-term value: 1250 mg/m³, 500 ppm
Long-term value: 999 mg/m³, 400 ppm

1310-73-2 sodium hydroxide (0%)

WEL (Great Britain) Short-term value: 2 mg/m³

· **DNELs**

64-17-5 ethanol

Oral	DNEL Long term-systemic	87 mg/kg human/day (consumer)
Dermal	DNEL Long term-systemic	206 mg/kg human/day (consumer)

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Inhalative	DNEL Long term-systemic mg/m3	343 mg/kg human/day (worker)
		114 mg/m3 (consumer)
	DNEL Long term local mg/m3	950 mg/m3 (worker)
		950 mg/m3 (consumer)
		1,900 mg/m3 (worker)

67-63-0 propan-2-ol

Oral	DNEL Long term-systemic	26 mg/kg human/day (consumer)
Dermal	DNEL Long term-systemic	319 mg/kg human/day (consumer)
		888 mg/kg human/day (worker)
Inhalative	DNEL Long term-systemic mg/m3	89 mg/m3 (consumer)
		500 mg/m3 (worker)

· PNECs**64-17-5 ethanol**

PNEC Freshwater mg/L	0.96 mg/L (-)
PNEC Marinewater mg/L	0.79 mg/L (-)
PNEC Freshwater sediment	3.6 mg/Kg (-)
PNEC Marine water sediment	2.9 mg/Kg (-)
PNEC Intermittent release	2.75 (-)
PNEC Soil	0.63 mg/Kg (-)
PNEC Sewage treatment Plant mg/L	580 mg/L (-)

67-63-0 propan-2-ol

PNEC Freshwater mg/L	140.9 mg/L
PNEC Marinewater mg/L	140.9 mg/L
PNEC Freshwater sediment	552 mg/Kg
PNEC Marine water sediment	552 mg/Kg
PNEC Intermittent release	140.9
PNEC Soil	28 mg/Kg

· Additional information: The lists valid during the making were used as basis.**· 8.2 Exposure controls****· 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.

Avoid contact with the eyes.

· Protection of hands:

Protective gloves

· Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

The determined penetration times according to EN 16523-1:2015 are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

· Not suitable are gloves made of the following materials: Strong material gloves**· Eye protection:**

Tightly sealed goggles

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SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Aerosol
Colour:	Colourless
Odour:	Like alcohol
Odour threshold:	Not determined.

· pH-value: Not determined.

· Change in condition

Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range:	78 °C

· Flash point: <0 °C

· Flammability (solid, gas): Not applicable.

· Ignition temperature: 365 °C

· Decomposition temperature: Not determined.

· Auto-ignition temperature: Product is not selfigniting.

· Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

· Explosion limits:

Lower:	1.7 Vol %
Upper:	15 Vol %

· Vapour pressure at 20 °C: 59 hPa

· Density at 20 °C: 0.89 g/cm³

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not applicable.

· Solubility in / Miscibility with water:

Fully miscible.

· Partition coefficient: n-octanol/water: Not determined.

· Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

· 9.2 Other information: No further relevant information available.

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: No dangerous reactions known.

· 10.4 Conditions to avoid: No further relevant information available.

· 10.5 Incompatible materials: No further relevant information available.

· 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on toxicological effects

· Acute toxicity: Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

64-17-5 ethanol

Oral	LD50	7,060 mg/kg (Rat)
Inhalative	LC50 / 4 h	20,000 mg/l (Rat)
	EC 50 / 48 h	10,800 mg/ltr (Daphnia magna (water flea))

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67-63-0 propan-2-ol

Oral	LD50	>5,000 mg/kg (Rat)
Dermal	LD50	6,290 mg/kg (rab)
Inhalative	LC50 / 4 h	46-73 mg/l (Rat)
	LC50/ 8 h	12,000-19,000 mg/m3 (Rat)
	LC50 / 96 h	9,640 mg/ltr (fish)
		>1,400 mg/ltr (Lepomus gobbosus (Zonnebaars))
		6,550 mg/ltr (Pimephales promelas)
	EC50 / 24 h	>1,000 mg/ltr (Daphnia magna (water flea))
	EC 50 / 48 h	2,285-13,299 mg/ltr (Daphnia magna (water flea))

90-43-7 biphenyl-2-ol

Oral	LD50	2,000 mg/kg (Rat)
Dermal	LD50	>2,000 mg/kg (Rat)

68439-50-9 Alcohol ethoxylate C12-C14

Dermal	LD50	2,000 mg/kg (Rat)
	LC50	>0.1 mg/l (fish)

- **Primary irritant effect:**
- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation**
Causes serious eye irritation.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard** Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

- **12.1 Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **12.2 Persistence and degradability** No further relevant information available.
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Other adverse effects** No further relevant information available.

SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**
- **Recommendation** Disposal must be made according to official regulations
- **Uncleaned packaging:**
- **Recommendation:** Disposal in accordance with administrative provisions

SECTION 14: Transport information

- **14.1 UN-Number**
- **ADR, IMDG, IATA**

UN1950

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· 14.2 UN proper shipping name

· ADR 1950 AEROSOLS
 · IMDG AEROSOLS
 · IATA AEROSOLS, flammable

· 14.3 Transport hazard class(es)

· ADR



· Class 2 5F Gases.
 · Label 2.1

· IMDG, IATA



· Class 2.1
 · Label 2.1

· 14.4 Packing group

· ADR, IMDG, IATA Void

· 14.5 Environmental hazards:

· Marine pollutant: No

· 14.6 Special precautions for user

· Hazard identification number (Kemler code):

· EMS Number:

· Stowage Code

Warning: Gases.

-

F-D,S-U

SW1 Protected from sources of heat.

SW22 For AEROSOLS with a maximum capacity of 1 litre:

Category A. For AEROSOLS with a capacity above 1 litre:

Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.

SG69 For AEROSOLS with a maximum capacity of 1 litre:

Segregation as for class 9. Stow "separated from" class 1 except for division 1.4.

For AEROSOLS with a capacity above 1 litre:

Segregation as for the appropriate subdivision of class 2.

For WASTE AEROSOLS:

Segregation as for the appropriate subdivision of class 2.

· Segregation Code

· 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable.

· Transport/Additional information:

· ADR

· Limited quantities (LQ)

· Excepted quantities (EQ)

1L

Code: E0

Not permitted as Excepted Quantity

· Transport category

2

· Tunnel restriction code

D

· IMDG

· Limited quantities (LQ)

· Excepted quantities (EQ)

1L

Code: E0

Not permitted as Excepted Quantity

· UN "Model Regulation":

UN 1950 AEROSOLS, 2.1

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SECTION 15: Regulatory information

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

Reg. (EC) n. 1272/2008 - CLP;
 Reg. (EC) n. 1907/2006 – Reach;
 Reg. (EC) n. 2015/830 annex II of REACH;
 Reg. (EC) n. 648/04 (Detergents);
 Reg. (EC) n. 528/12 (Biocides BPR);
 Reg. (EC) n. 1223/2009 (Cosmetics);
 Dir. 06/08 ADR – RID - IMDG - IATA;
 Dir. 47/08 (Aerosols); Dir. 12/18 (Seveso III);
 Dir. 2008/98/CE and Reg. (EC) n.1357/2014 (Waste management)

· Directive 2012/18/EU

- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category** P3a FLAMMABLE AEROSOLS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 150 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

· National regulations:

· Technical instructions (air):

Class	Share in %
NK	50-75

· **Waterhazard class:** Water hazard class 2 (Self-assessment): hazardous for water.

· **15.2 Chemical safety assessment:** A Chemical Safety Assessment has 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

H220 Extremely flammable gas.
 H225 Highly flammable liquid and vapour.
 H280 Contains gas under pressure; may explode if heated.
 H302 Harmful if swallowed.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H336 May cause drowsiness or dizziness.
 H400 Very toxic to aquatic life.
 H410 Very toxic to aquatic life with long lasting effects.
 H412 Harmful to aquatic life with long lasting effects.

· Department issuing SDS:

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 NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710
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 IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61
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· Contact:

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 IT: Tel: +39 069 266 91 Fax: +39 06.927 470 61
 UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 GHS: Globally 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)
 DNEL: Derived No-Effect Level (REACH)
 PNEC: Predicted No-Effect Concentration (REACH)

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LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1: Flammable gases – Category 1
Aerosol 1: Aerosols – Category 1
Press. Gas (Comp.): Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
Acute Tox. 4: Acute toxicity - oral – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3
 . *** Data compared to the previous version altered.**

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Annex: Exposure scenario

· **Short title of the exposure scenario**

For the finished product.

ZEPYNAMIC A EU

ZEPYNAMIC AC EU

CONDIBAT EU

· **Sector of Use** SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

· **Product category** PC28 Perfumes, fragrances

· **Process category** PROC7 Industrial spraying

· **Description of the activities / processes covered in the Exposure Scenario** See section 1 of the annex to the Safety Data Sheet.

· **Conditions of use**

· **Duration and frequency** 5 workdays/week.

· **Physical parameters**

· **Physical state** Aerosol

· **Concentration of the substance in the mixture** The substance is main component.

· **Used amount per time or activity** According to directions for use.

· **Other operational conditions**

· **Other operational conditions affecting environmental exposure** No special measures required.

· **Other operational conditions affecting worker exposure**

Take precautionary measures against static discharge.

Keep away from sources of ignition - No smoking.

Avoid contact with eyes.

· **Other operational conditions affecting consumer exposure** Keep out of the reach of children.

· **Other operational conditions affecting consumer exposure during the use of the product** Not applicable.

· **Risk management measures**

· **Worker protection**

· **Organisational protective measures** No special measures required.

· **Technical protective measures**

Provide explosion-proof electrical equipment.

Ensure that suitable extractors are available on processing machines

· **Personal protective measures**

The usual precautionary measures are to be adhered to when handling chemicals.

Avoid contact with the eyes.

Tightly sealed goggles

· **Measures for consumer protection**

Ensure adequate labelling.

Keep locked up and out of the reach of children.

· **Environmental protection measures**

· **Water** No special measures required.

· **Disposal measures**

Disposal in accordance with administrative provisions

Ensure that waste is collected and contained.

· **Disposal procedures** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Waste type** Partially emptied and uncleaned packaging

· **Exposure estimation**

· **Consumer** Not relevant for this Exposure Scenario.

· **Guidance for downstream users** No further relevant information available.