

# Safety data sheet

## according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2025

Version number 8 (replaces version 7)

Revision: 24.07.2025

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

· **1.1 Product identifier**

· **Trade name:** DRY ZETA

· **Article number:** G04-010/011

· **UFI:** S660-D05J-E00E-91VE

· **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** PC35 Washing and cleaning products (including solvent based products)

· **Application of the substance / the mixture** Spotting agent for industrial laundry

· **Uses advised against** Any use other than those identified is not recommended.

· **1.3 Details of the supplier of the safety data sheet**

· **Manufacturer/Supplier:**

G.B.M. Elettrochimica s.r.l.

via Fiumicino S. Mauro 120/130 - 47039 Savignano sul Rubicone (FC)

tel. 0541/930058 - Fax 0541/810218

www.gbmprodottichimici.it - E-mail gbm@prodottichimici.it

· **Further information obtainable from:** info@gbmprodottichimici.it

· **1.4 Emergency telephone number:** G.B.M. Elettrochimica srl - Tel. +39 0541 930058 (office hours)

### 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.



GHS08 health hazard

Repr. 2

H361d Suspected of damaging the unborn child.

STOT RE 1

H372 Causes damage to organs through prolonged or repeated exposure.

Asp. Tox. 1

H304 May be fatal if swallowed and enters airways.



GHS05 corrosion

Eye Dam. 1

H318 Causes serious eye damage.



GHS09 environment

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2

H315 Causes skin irritation.

(Contd. on page 2)

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## according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2025

Version number 8 (replaces version 7)

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Trade name: DRY ZETA

(Contd. of page 1)

### · 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



#### · Signal word *Danger*

#### · Hazard-determining components of labelling:

Ethoxylated alcohol

Idrocarburi, C9-C12, isoalcani, ciclici, aromatici (2-25%)

toluene

butanol

#### · Hazard statements

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H361d Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H304 May be fatal if swallowed and enters airways.

H411 Toxic to aquatic life with long lasting effects.

#### · Precautionary statements

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

P233 Keep container tightly closed.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

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

P301+P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

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.

P370+P378 In case of fire: Use CO<sub>2</sub>, powder or water spray to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

#### · Additional information:

Product contains: Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9.

### · 2.3 Other hazards

#### · Results of PBT and vPvB assessment

##### · PBT:

According to the available data, the product does not contain any PBT substances in a proportion  $\geq 0.1\%$ .

##### · vPvB: According to the available data, the product does not contain vPvB substances in a proportion $\geq 0.1\%$ .

#### · Determination of endocrine-disrupting properties

The substance/mixture does not contain components considered to have endocrine disrupting properties according to Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or more;

(Contd. on page 3)

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2025

Version number 8 (replaces version 7)

Revision: 24.07.2025

Trade name: DRY ZETA

(Contd. of page 2)

### SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Mixture of substances listed below with nonhazardous additions.

· **Dangerous components:**

CAS: 9194-46-0 Reg.nr.: 01-2119458049-33	Idrocarburi, C9-C12, isoalcani, ciclici, aromatici (2-25%) ☠ STOT RE 1, H372; Asp. Tox. 1, H304; ☠ Aquatic Chronic 2, H411	25-40%
CAS: 69011-36-5 Reg.nr.: Esentato	Ethoxylated alcohol ☠ Eye Dam. 1, H318; ☠ Acute Tox. 4, H302 ATE: LD50 oral: 500 mg/kg	15-25%
CAS: 67-63-0 EINECS: 200-661-7 Index number: 603-117-00-0 Reg.nr.: 01-2119457558-25-	propan-2-ol ☠ Flam. Liq. 2, H225; ☠ Eye Irrit. 2, H319; STOT SE 3, H336	15-25%
CAS: 111-76-2 EINECS: 203-905-0 Index number: 603-014-00-0 Reg.nr.: 01-2119475108-36-xxxx	2-butoxyethanol ☠ Acute Tox. 3, H331; ☠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319 ATE: LD50 oral: 1,200 mg/kg LC50/4 h inhalative: 3 mg/l	5-15%
CAS: 108-88-3 EINECS: 203-625-9 Index number: 601-021-00-3 Reg.nr.: 01-2119471310-51	toluene ☠ Flam. Liq. 2, H225; ☠ Repr. 2, H361d; STOT RE 2, H373; Asp. Tox. 1, H304; ☠ Skin Irrit. 2, H315; STOT SE 3, H336	5-15%
CAS: 123-86-4 EINECS: 204-658-1 Index number: 607-025-00-1 Reg.nr.: 01-2119485493-29-	n-butyl acetate ☠ Flam. Liq. 3, H226; ☠ STOT SE 3, H336, EUH066	5-15%
CAS: 78-83-1 EINECS: 201-148-0 Index number: 603-108-00-1 Reg.nr.: 01-2119484609-23-0008	butanol ☠ Flam. Liq. 3, H226; ☠ Eye Dam. 1, H318; ☠ Skin Irrit. 2, H315; STOT SE 3, H335-H336	2-5%
CAS: 79-20-9 EINECS: 201-185-2 Index number: 607-021-00-X	methyl acetate ☠ Flam. Liq. 2, H225; ☠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	1-2%
CAS: 67-64-1 EINECS: 200-662-2 Index number: 606-001-00-8 Reg.nr.: 01-2119471330-49-	acetone ☠ Flam. Liq. 2, H225; ☠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	1-2%
CAS: 141-78-6 EINECS: 205-500-4 Index number: 607-022-00-5 Reg.nr.: 01-2119475103-46	ethyl acetate ☠ Flam. Liq. 2, H225; ☠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066	1-2%

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

(Contd. on page 4)

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2025

Version number 8 (replaces version 7)

Revision: 24.07.2025

Trade name: DRY ZETA

(Contd. of page 3)

#### SECTION 4: First aid measures

##### · 4.1 Description of first aid measures

##### · **General information:**

Rescue workers must wear the protective equipment described in section 8.2 of this safety data sheet.

· **IF INHALATED:** In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.

##### · **After swallowing:**

If ingested do not induce vomiting, seek medical assistance showing the safety data sheet or the hazard label

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

Eyes: corrosive, corneal damage, irritation

Skin: irritation

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

If any symptoms appear and/or if in doubt, contact a physician and provide this MSDS.

#### SECTION 5: Firefighting measures

##### · 5.1 Extinguishing media

##### · **Suitable extinguishing agents:**

carbon dioxide, foam, chemical powder. For product spills and leaks that have not ignited, water spray can be used to disperse flammable vapours and protect persons engaged in stopping the leak.

##### · **For safety reasons unsuitable extinguishing agents:**

Do not use water jets. Water is not effective in extinguishing a fire, however, it can be used to cool closed containers

exposed to flame, preventing bursts and explosions

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

In case of fire, the following can be released:

Carbon monoxide (CO)

Nitrogen oxides (NOx)

Under certain fire conditions, traces of other toxic gases cannot be excluded.

##### · 5.3 Advice for firefighters

##### · **Protective equipment:**

As in any fire, wear self-contained breathing apparatus and appropriate protective clothing including gloves and eye / face protection.

See Section 8 for information on personal protection equipment.

##### · **Additional information**

Do not inhale gases resulting from explosions and fires. Cool containers with jets of water to prevent decomposition of the product and the development of substances potentially hazardous to health.

#### SECTION 6: Accidental release measures

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

Wear protective equipment. Keep unprotected persons away.

See Section 8 for information on personal protection equipment.

##### · **For non-emergency personnel**

Provide adequate ventilation and move away from the danger area. For personal protection, see section 8.

##### · **For emergency responders**

The intervention personnel must wear appropriate personal protective equipment (overalls, gloves, goggles and dust mask). Keep non-emergency personnel away from the affected area.

(Contd. on page 5)

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2025

Version number 8 (replaces version 7)

Revision: 24.07.2025

Trade name: DRY ZETA

(Contd. of page 4)

- **6.2 Environmental precautions:**  
Inform respective authorities in case of seepage into water course or sewage system.  
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).  
Send for recovery or disposal in suitable receptacles.  
Dispose contaminated material as waste according to section 13.  
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**  
Prevent formation of aerosols.  
Ensure good ventilation/exhaustion at the workplace.  
Avoid contact with eyes and skin.
- **Information about fire - and explosion protection:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.  
Emergency cooling must be available in case of nearby fire.
- **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:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in cool, dry conditions in well sealed receptacles.
- **7.3 Specific end use(s)** No further data; see section 1.2.

### SECTION 8: Exposure controls/personal protection

- **8.1 Control parameters**

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

**CAS: 67-63-0 propan-2-ol (15-25%)**

OEL	Short-term value: 400 ppm
	Long-term value: 200 ppm
	Skin

**CAS: 111-76-2 2-butoxyethanol (5-15%)**

OEL	Short-term value: 246 mg/m <sup>3</sup> , 50 ppm
	Long-term value: 98 mg/m <sup>3</sup> , 20 ppm
	Skin, IOELV

**CAS: 108-88-3 toluene (5-15%)**

OEL	Short-term value: 384 mg/m <sup>3</sup> , 100 ppm
	Long-term value: 192 mg/m <sup>3</sup> , 50 ppm
	Skin, IOELV

(Contd. on page 6)

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2025

Version number 8 (replaces version 7)

Revision: 24.07.2025

**Trade name: DRY ZETA**

(Contd. of page 5)

**CAS: 123-86-4 n-butyl acetate (5-15%)**

OEL Short-term value: 723 mg/m<sup>3</sup>, 150 ppm  
 Long-term value: 241 mg/m<sup>3</sup>, 50 ppm  
 IOELV

**CAS: 78-83-1 butanol (2-5%)**

OEL Long-term value: 700 mg/m<sup>3</sup>, 150 ppm

**CAS: 34590-94-8 Dipropylene glycol monomethyl ether (2-5%)**

OEL Long-term value: 308 mg/m<sup>3</sup>, 50 ppm  
 Skin, IOELV

**CAS: 79-20-9 methyl acetate (1-2%)**

OEL Short-term value: 760 mg/m<sup>3</sup>, 250 ppm  
 Long-term value: 610 mg/m<sup>3</sup>, 200 ppm

**CAS: 67-64-1 acetone (1-2%)**

OEL Long-term value: 1210 mg/m<sup>3</sup>, 500 ppm  
 IOELV

**CAS: 141-78-6 ethyl acetate (1-2%)**

OEL Short-term value: 1468 mg/m<sup>3</sup>, 400 ppm  
 Long-term value: 734 mg/m<sup>3</sup>, 200 ppm  
 IOELV

· **Regulatory information** OEL: 2024 CoP for the Safety, Health and Welfare at Work

· **DNELs****CAS: 67-63-0 propan-2-ol**

Oral	Long term, systemic effect	26 mg/kg bw/day (general population)
Dermal	Long term, systemic effect	319 mg/kg bw/day (general population) 888 mg/kg bw/day (professional workers)
Inhalative	Long term, systemic effect	89 mg/m <sup>3</sup> (general population) 500 mg/m <sup>3</sup> (professional workers)

**CAS: 111-76-2 2-butoxyethanol**

Oral	Long term, systemic effect	6.3 mg/kg bw/day (general population)
Dermal	Long term, systemic effect	75 mg/kg bw/day (general population) 125 mg/kg bw/day (professional workers)
Inhalative	Short term, local effect	147 mg/m <sup>3</sup> (general population) 246 mg/m <sup>3</sup> (professional workers)
	Short term, systemic effect	426 mg/m <sup>3</sup> (general population) 652 mg/m <sup>3</sup> (professional workers)
	Long term, systemic effect	59 mg/m <sup>3</sup> (general population) 98 mg/m <sup>3</sup> (professional workers)
	Lungo termine, effetti sistemici	67.5 mg/Kg bw/day (professional workers)

**CAS: 123-86-4 n-butyl acetate**

Inhalative	Long term (repeated)	102 mg/m <sup>3</sup> (general population) 480 mg/m <sup>3</sup> (professional workers)
	Long term, local effect	859 mg/m <sup>3</sup> (general population) 960 mg/m <sup>3</sup> (professional workers)

(Contd. on page 7)

**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 24.07.2025

Version number 8 (replaces version 7)

Revision: 24.07.2025

**Trade name: DRY ZETA**

(Contd. of page 6)

**CAS: 34590-94-8 Dipropylene glycol monomethyl ether**

Oral	Long term, systemic effect	1.67 mg/kg bw/day (general population)
Dermal	Long term, systemic effect	15 mg/kg bw/day (general population)
		65 mg/kg bw/day (professional workers)
Inhalative	Long term, systemic effect	37.2 mg/m <sup>3</sup> (general population)
		308 mg/m <sup>3</sup> (professional workers)

**CAS: 67-64-1 acetone**

Dermal	Long term, systemic effect	186 mg/kg bw/day (professional workers)
Inhalative	Short term, local effect	2,420 mg/m <sup>3</sup> (professional workers)
	Long term, local effect	1,210 mg/m <sup>3</sup> (professional workers)

**CAS: 141-78-6 ethyl acetate**

Dermal	Long term, systemic effect	37 mg/kg (general population)
		63 mg/kg (professional workers)
Inhalative	Short term (acute)	734 mg/m <sup>3</sup> (general population)
	Short term, local effect	734 mg/m <sup>3</sup> (general population)
		1,468 mg/m <sup>3</sup> (professional workers)
	Short term, systemic effect	1,468 mg/m <sup>3</sup> (professional workers)
	Long term, local effect	367 mg/m <sup>3</sup> (general population)
		734 mg/m <sup>3</sup> (professional workers)
	Long term, systemic effect	367 mg/m <sup>3</sup> (general population)
		734 mg/m <sup>3</sup> (professional workers)

**· PNECs****CAS: 67-63-0 propan-2-ol**

PNEC	140.9 mg/l (freshwater)
	140.9 mg/l (fresh water sediments)
	140.9 mg/l (intermittent releases)
	140.9 mg/l (marine water)
	552 mg/l (marine water sediments)
	28 mg/l (soil)
	2,251 mg/l (sewage treatment plant)

**CAS: 111-76-2 2-butoxyethanol**

PNEC	34.6 mg/kg (fresh water sediments)
	3.46 mg/kg (marine water sediments)
	2.33 mg/kg (soil)
PNEC	8.8 mg/l (freshwater)
	9.1 mg/l (intermittent releases)
	0.88 mg/l (marine water)
	463 mg/l (sewage treatment plant)

**CAS: 34590-94-8 Dipropylene glycol monomethyl ether**

PNEC	19 mg/l (freshwater)
	190 mg/l (intermittent releases)
	1.9 mg/l (marine water)

(Contd. on page 8)

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2025

Version number 8 (replaces version 7)

Revision: 24.07.2025

**Trade name: DRY ZETA**

(Contd. of page 7)

PNEC	4.168 mg/l (sewage treatment plant) 70.2 mg/kg dw (fresh water sediments) 7.02 mg/kg dw (marine water sediments) 2.74 mg/kg dw (soil)
<b>CAS: 67-64-1 acetone</b>	
PNEC	30.4 mg/kg (fresh water sediments) 3.04 mg/kg (marine water sediments)
PNEC	10.6 mg/l (freshwater) 21 mg/l (intermittent releases) 1.06 mg/l (marine water) 100 mg/l (sewage treatment plant)
<b>CAS: 141-78-6 ethyl acetate</b>	
PNEC	1.15 mg/kg (fresh water sediments) 0.115 mg/kg (marine water sediments)
PNEC	0.24 mg/l (freshwater) 0.024 mg/l (marine water) 650 mg/l (sewage treatment plant)

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

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the eyes and skin.

· **Respiratory protection:**

The use of respiratory protective equipment is necessary if the technical measures taken are not sufficient to limit the worker's exposure to the threshold values considered.

Use appropriate respiratory protection (EN 14387:2008)

Filter AX

· **Hand protection**

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



Protective gloves

· **Material of gloves**

Neoprene gloves

Nitrile rubber, NBR

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**

Breakthrough time: > = 480 min - Material thickness: > = 0.7 mm

Breakthrough time: > = 60 min - Material thickness: > = 0.5 mm

Breakthrough time: > = 30 min - Material thickness: > = 0.2 mm

(Contd. on page 9)

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2025

Version number 8 (replaces version 7)

Revision: 24.07.2025

**Trade name: DRY ZETA**

(Contd. of page 8)

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

- **Environmental exposure controls** Observe safety measures related to the environment; refer to Section 6.2.

### SECTION 9: Physical and chemical properties

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

- **General Information**

· <b>Physical state</b>	Liquid
· <b>Colour:</b>	Yellow
· <b>Odour:</b>	Aromatic
· <b>Odour threshold:</b>	Not determined.
· <b>Melting point/freezing point:</b>	Not relevant for product characterisation.
· <b>Boiling point or initial boiling point and boiling range</b>	55 °C
· <b>Flammability</b>	Flammable.
· <b>Lower and upper explosion limit</b>	
· <b>Lower:</b>	1.1 Vol % Not applicable (the product has no explosive properties).
· <b>Upper:</b>	12 Vol % Not applicable (the product has no explosive properties).
· <b>Flash point:</b>	>21 °C
· <b>Auto-ignition temperature:</b>	240 °C
· <b>Decomposition temperature:</b>	Not determined as not relevant for product characterisation.
· <b>pH</b>	Not applicable.
· <b>Viscosity:</b>	
· <b>Kinematic viscosity</b>	Not determined.
· <b>Dynamic:</b>	Not determined.
· <b>Solubility</b>	
· <b>water:</b>	Soluble.
· <b>Partition coefficient n-octanol/water (log value)</b>	Not determined.
· <b>Vapour pressure at 20 °C:</b>	43 hPa
· <b>Density and/or relative density</b>	
· <b>Density:</b>	Not determined.
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.

- **9.2 Other information**

· <b>Appearance:</b>	
· <b>Form:</b>	Liquid
· <b>Important information on protection of health and environment, and on safety.</b>	
· <b>Ignition temperature:</b>	Product is not selfigniting.
· <b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

(Contd. on page 10)

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2025

Version number 8 (replaces version 7)

Revision: 24.07.2025

Trade name: DRY ZETA

(Contd. of page 9)

· **Evaporation rate**

Not determined.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity** No hazardous reactions when stored and handled according to instructions
- **10.2 Chemical stability** The product is stable under normal conditions of use and storage
- **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**  
Excessive temperature variations, below 15 ° C and above 35 ° C  
Avoid exposing the product to high temperatures. Keep the product away from open flames. Avoid humidity.
- **10.5 Incompatible materials:** Avoid contact with acids and oxidants.
- **10.6 Hazardous decomposition products:**  
When heated or in case of fire can release gases and vapors which are dangerous to health.  
carbon monoxide, carbon dioxide  
Nitrogen oxides (NOx)

### SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

· **LD/LC50 values relevant for classification:**

#### ATE (Acute Toxicity Estimates)

Oral	LD50	2,149 mg/kg
Inhalative	LC50/4 h	23.7 mg/l

#### CAS: 69011-36-5 Ethoxylated alcohol

Oral	LD50	500 mg/kg (ATE) 500 mg/kg (rat)
------	------	------------------------------------

#### CAS: 67-63-0 propan-2-ol

Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4 h	27.2 mg/l (mouse) (Esposizione 4 h) 72.6 mg/l (rat) (Esposizione 4 h)

#### CAS: 111-76-2 2-butoxyethanol

Oral	LD50	1,200 mg/kg (ATE)
		1,200 mg/kg (mouse)
		1,776 mg/kg (rat)
		mg/kg (rabbit)
Dermal	LD50	1,000-2,000 mg/kg (rat)
Inhalative	LC50/4 h	3 mg/l (ATE)
		11 mg/l (rat)

#### CAS: 108-88-3 toluene

Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)

(Contd. on page 11)

**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 24.07.2025

Version number 8 (replaces version 7)

Revision: 24.07.2025

**Trade name: DRY ZETA**

(Contd. of page 10)

Inhalative	LC50/4 h	5,320 mg/l (mouse)
<b>CAS: 123-86-4 n-butyl acetate</b>		
Oral	LD50	13,100 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rabbit)
Inhalative	LC50/4 h	>21 mg/l (rat)
<b>CAS: 78-83-1 butanol</b>		
Oral	LD50	2,460 mg/kg (rat)
Dermal	LD50	3,400 mg/kg (rabbit)
<b>CAS: 34590-94-8 Dipropylene glycol monomethyl ether</b>		
Oral	LD50	5,660 mg/kg (rat)
Dermal	LD50	9,500 mg/kg (rab)
<b>CAS: 79-20-9 methyl acetate</b>		
Oral	LD50	3,705 mg/kg (rabbit)
<b>CAS: 67-64-1 acetone</b>		
Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)
<b>CAS: 141-78-6 ethyl acetate</b>		
Oral	LD50	5,620 mg/kg (rabbit)
Dermal	LD50	>20,000 mg/kg /bw (rat)
Inhalative	LC50/4 h	1,600 mg/l (rat)

- **Primary irritant effect:**

- **Skin corrosion/irritation** Causes skin irritation.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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** Suspected of damaging the unborn child.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Causes damage to organs through prolonged or repeated exposure.
- **Aspiration hazard** May be fatal if swallowed and enters airways.

- **11.2 Information on other hazards**

- **Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or more;

## SECTION 12: Ecological information

- **12.1 Toxicity**

- **Aquatic toxicity:**

**CAS: 69011-36-5 Ethoxylated alcohol**

EC50	1-10 mg/l (algae) (durata 72 h)
	1-10 mg/l (daphnia) (durata 48 h)

**CAS: 67-63-0 propan-2-ol**

CL50	1,400 mg/l (fish) (Esposizione 96 h)
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(Contd. on page 12)

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2025

Version number 8 (replaces version 7)

Revision: 24.07.2025

**Trade name: DRY ZETA**

(Contd. of page 11)

EC50	2,285 mg/l (daphnia) (Esposizione 48 h)
<b>CAS: 67-64-1 acetone</b>	
CL50	8,120 mg/l (fish) (Esposizione 96 h)
EC50	6,098 mg/l (daphnia) (Esposizione 48 h)
<b>CAS: 141-78-6 ethyl acetate</b>	
CL50	230 mg/l /96h (fish)
EC50	165 mg/l /48h (crustaceans)

- **12.2 Persistence and degradability**

Easily biodegradable

The surfactants contained in the product correspond to the legislation on the environmental compatibility of detergents and are biodegradable.

- **Other information:** The product is easily biodegradable.

- **12.3 Bioaccumulative potential** Non significant accumulation in organisms

- **12.4 Mobility in soil** No further relevant information available.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:**

According to the available data, the product does not contain any PBT substances in a proportion  $\geq 0.1\%$ .

- **vPvB:** According to the available data, the product does not contain vPvB substances in a proportion  $\geq 0.1\%$ .

- **12.6 Endocrine disrupting properties**

The substance/mixture does not contain components considered to have endocrine disrupting properties according to Article 57(f) of REACH or Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or more;

- **12.7 Other adverse effects**

- **Remark:** Toxic for fish

- **Additional ecological information:**

- **General notes:**

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

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.

Also poisonous for fish and plankton in water bodies.

Toxic for aquatic organisms

## SECTION 13: Disposal considerations

- **13.1 Waste treatment methods**

- **Recommendation**

Do not discard the product or its packaging. Do not empty into drains. Recycle the product. When recycling is not possible, dispose through an authorized company in compliance with the local or national regulations.

The assignment of the waste code is the user's responsibility, after determining the properties of the waste and the process generating it and after discussing it with the authorities responsible for disposal.

- **Uncleaned packaging:**

- **Recommendation:**

Empty the containers before disposal. Do not reuse the emptied containers. Send the empty containers to recycling or to an authorized company in compliance with local and national regulations.

- **Recommended cleansing agents:** Water.

(Contd. on page 13)

**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 24.07.2025



Version number 8 (replaces version 7)

Revision: 24.07.2025

Trade name: DRY ZETA

(Contd. of page 12)

### SECTION 14: Transport information

<ul style="list-style-type: none"> <li>· <b>14.1 UN number or ID number</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	UN1993	
<ul style="list-style-type: none"> <li>· <b>14.2 UN proper shipping name</b></li> <li>· <b>ADR</b></li> <li>· <b>IMDG</b></li> <li>· <b>IATA</b></li> </ul>	1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL), TOLUENE), ENVIRONMENTALLY HAZARDOUS  FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL), TOLUENE), MARINE POLLUTANT  FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL), TOLUENE)	
<ul style="list-style-type: none"> <li>· <b>14.3 Transport hazard class(es)</b></li> <li>· <b>ADR, IMDG</b></li> </ul>	 <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	3 Flammable liquids. 3
<ul style="list-style-type: none"> <li>· <b>IATA</b></li> </ul>	 <ul style="list-style-type: none"> <li>· <b>Class</b></li> <li>· <b>Label</b></li> </ul>	3 Flammable liquids. 3
<ul style="list-style-type: none"> <li>· <b>14.4 Packing group</b></li> <li>· <b>ADR, IMDG, IATA</b></li> </ul>	III	
<ul style="list-style-type: none"> <li>· <b>14.5 Environmental hazards:</b></li> <li>· <b>Marine pollutant:</b></li> <li>· <b>Special marking (ADR):</b></li> </ul>	Product contains environmentally hazardous substances: Idrocarburi, C9-C12, isoalcani, ciclici, aromatici (2-25%) Yes Symbol (fish and tree) Symbol (fish and tree)	
<ul style="list-style-type: none"> <li>· <b>14.6 Special precautions for user</b></li> <li>· <b>Hazard identification number (Kemler code):</b></li> <li>· <b>EMS Number:</b></li> <li>· <b>Stowage Category</b></li> </ul>	Warning: Flammable liquids. 33 F-E, <u>S</u> -E A	
<ul style="list-style-type: none"> <li>· <b>14.7 Maritime transport in bulk according to IMO instruments</b></li> </ul>	Not applicable.	
<ul style="list-style-type: none"> <li>· <b>Transport/Additional information:</b></li> </ul>		
<ul style="list-style-type: none"> <li>· <b>ADR</b></li> <li>· <b>Limited quantities (LQ)</b></li> <li>· <b>Excepted quantities (EQ)</b></li> <li>· <b>Transport category</b></li> </ul>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml 3	

(Contd. on page 14)

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2025

Version number 8 (replaces version 7)

Revision: 24.07.2025

Trade name: DRY ZETA

(Contd. of page 13)

· <b>Tunnel restriction code</b>	D/E
· <b>IMDG</b>	
· <b>Limited quantities (LQ)</b>	1L
· <b>Excepted quantities (EQ)</b>	Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· <b>UN "Model Regulation":</b>	UN 1993 FLAMMABLE LIQUID, N.O.S. (ISOPROPANOL (ISOPROPYL ALCOHOL), TOLUENE), 3, III, ENVIRONMENTALLY HAZARDOUS

### SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**  
Safety data sheet prepared in accordance with Regulation 1907/2006/EC Article 31, Regulation (EU) No 878/2020 as subsequent amendments.
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category**  
E2 Hazardous to the Aquatic Environment  
P5c FLAMMABLE LIQUIDS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3, 48

- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

- **REGULATION (EU) 2019/1148**

- **Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))**

None of the ingredients is listed.

- **Annex II - REPORTABLE EXPLOSIVES PRECURSORS**

CAS: 67-64-1 acetone

- **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**
- H225 Highly flammable liquid and vapour.
- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H331 Toxic if inhaled.

(Contd. on page 15)

## Safety data sheet

### according to Regulation (EC) No 1907/2006, Article 31

Printing date 24.07.2025

Version number 8 (replaces version 7)

Revision: 24.07.2025

**Trade name: DRY ZETA**

(Contd. of page 14)

- H335 May cause respiratory irritation.
- H336 May cause drowsiness or dizziness.
- H361d Suspected of damaging the unborn child.
- H372 Causes damage to organs through prolonged or repeated exposure.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.
- EUH066 Repeated exposure may cause skin dryness or cracking.

• **Classification according to Regulation (EC) No 1272/2008**

As required by Regulation 1272/2008/CE art. 9, the classification of this compound is based on the calculation method taken from the data of the single substances therein and from the experimental data of this compound where available (viewable in sections 9, 11 and 12 in this document).

Procedure used for the classification of the mixture

Flam. Liq. 3, H226 - According to experimental data

Asp. Tox. 1, H304 - Calculation method

Skin Irrit. 2, H315 - Calculation method

Eye Dam. 1, H318 - Calculation method

Repr. 2, H361d - Calculation method

Aquatic Chronic 2, H411 - Calculation method

• **Version number of previous version: 7**

• **Abbreviations and acronyms:**

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (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. 2: Flammable liquids – Category 2

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. 2: Reproductive toxicity – Category 2

STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

STOT RE 1: Specific target organ toxicity (repeated exposure) – Category 1

STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Asp. Tox. 1: Aspiration hazard – Category 1

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

• **Sources**

-Safety data sheets and data sheets of raw material suppliers.

-ECHA (EU), registered substances database.

-ECHA (EU), C&L inventory database.

-ECHA (EU), SVHC candidate substances.

-IARC (F), International Agency for Research on Cancer.

-ISS (I), Istituto Superiore di Sanità, Hazardous Substances Database.

-ACGIH (USA), American Conference of Governmental Industrial Hygienists.

-INRS (F), Institut National de Recherche et de Sécurité : Les Mélanges Explosifs.

-Ministry of the Environment (I), Ecotoxicological database on chemicals.

-IFA (D), Institut für Arbeitsschutz, GESTIS database on hazardous substances.

-ILO, International Labour Organization, International Chemical Safety Cards database.

(Contd. on page 16)

**Safety data sheet**  
**according to Regulation (EC) No 1907/2006, Article 31**

Printing date 24.07.2025

Version number 8 (replaces version 7)

Revision: 24.07.2025

**Trade name: DRY ZETA**

(Contd. of page 15)

- OECD, Organisation for Economic Co-operation and Development, eChemPortal database.
- WHO, World Health Organization, Chemical Safety Information database. -TOXNET (USA), Toxicology Data Network database.
- ATSDRC (USA), Agency for Toxic Substances & Disease Registry database.
- SCOEL Opinion for crystalline free silica (respirable dust), 2003.
- SCOEL Opinion for the presence of hexavalent chromium in cement, 2002.

-IE-