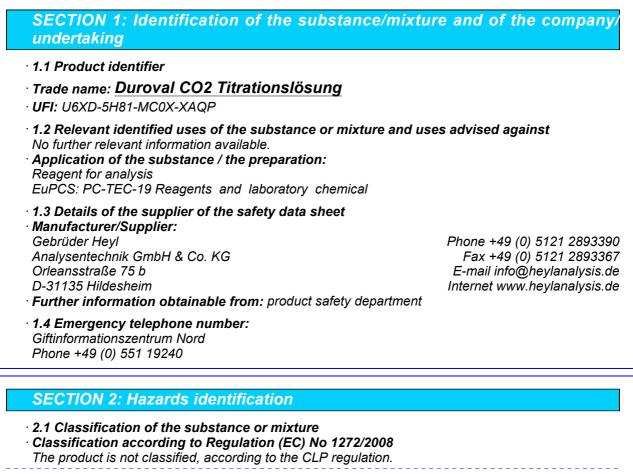


Safety data sheet according to 1907/2006/EC

Printing date 24.02.2022

Version number 11 (replaces version 10)

Revision: 24.02.2022



- · 2.2 Label elements
- · Labelling according to Regulation (EC) No 1272/2008 Void
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · Labelling of packages where the contents do not exceed 125 ml
- · Hazard pictograms Void
- · Signal word Void
- · Hazard statements Void
- · 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 according to Regulation (EC) No

1272/2008. Water CAS 7732-18-5

sodium hydroxide CAS 1310-73-2 < 0,2%

- · Dangerous components: Void
- · SVHC Not applicable.
- Additional information: For the wording of the listed hazard phrases refer to section 16.

(Contd. on page 2)

DE EN



Safety data sheet according to 1907/2006/EC

Version number 11 (replaces version 10)

Revision: 24.02.2022

Trade name: Duroval CO2 Titrationslösung

(Contd. of page 1)

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:

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. Then consult a doctor. After swallowing:

· After swallowing:

A person vomiting while laying on their back should be turned onto their side. Rinse out mouth and then drink plenty of water. Seek medical treatment.

- **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.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture
- No further relevant information available.
- 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 personal protection equipment.
- . 6.2 Environmental precautions: 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 of the material collected according to regulations. Clean the affected area carefully; suitable cleaners are:

Warm water

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.

- · Information about fire and explosion protection: No special measures required.
- · 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 foodstuffs.
- Further information about storage conditions: Keep container tightly sealed.

Protect from heat and direct sunlight.

(Contd. on page 3)



Safety data sheet according to 1907/2006/EC

Version number 11 (replaces version 10)

Revision: 24.02.2022

Trade name: Duroval CO2 Titrationslösung

(Contd. of page 2) Store receptacle in a well ventilated area. · Recommended storage temperature: 15 - 25 °C Storage class: Storage class 12: Non-combustible liquids that cannot be assigned to any other storage class (TRGS 510) · 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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. • Additional information: The lists valid during the making were used as basis. · 8.2 Exposure controls · Appropriate engineering controls No further data; see item 7. · Individual protection measures, such as personal protective equipment General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals. Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Do not eat, drink, smoke or sniff while working. Respiratory protection: Use suitable respiratory protective device when aerosol or mist is formed. Filter: Type P 2 Hand protection Wear gloves according to EN 374. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Check protective gloves prior to each use for their proper condition. Preventive skin protection by use of skin-protecting agents is recommended. After use of gloves apply skin-cleaning agents and skin cosmetics. 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. · 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. · For the permanent contact gloves made of the following materials are suitable: Nitrile rubber, NBR Recommended thickness of the material: $\geq 0.12 \text{ mm}$ Value for the permeation: Level = 6 (> 480 min) • As protection from splashes gloves made of the following materials are suitable: Nitrile rubber, NBR Recommended thickness of the material: $\geq 0.12 \text{ mm}$ Value for the permeation: Level = 6 (> 480 min) • Eye/face protection Goggles according to EN 166 recommended during refilling · Body protection: Protective work clothing DE EN

(Contd. on page 4)



Safety data sheet according to 1907/2006/EC

Version number 11 (replaces version 10)

Revision: 24.02.2022

Trade name: Duroval CO2 Titrationslösung

(Contd. of page 3)

0 1 Information on basic physical and abor	nical properties		
9.1 Information on basic physical and chen General Information	nicai properties		
Physical state	Fluid		
Colour:	Colourless		
Odour:	Odourless		
Odour threshold:	Not determined.		
Melting point/freezing point:	Undetermined.		
Boiling point or initial boiling point and			
boiling range	Undetermined.		
Flammability	Not applicable.		
Lower and upper explosion limit			
Lower:	Not determined.		
Upper:	Not determined.		
Flash point:	Undetermined.		
Ignition temperature:	Not determined.		
Decomposition temperature:	Not determined.		
pH at 20 °C	ca. 13		
Viscosity:			
Kinematic viscosity	Not determined.		
Dynamic: Solubility	Not determined.		
Solubility	Fully missible		
water: Partition coofficient n octanol/water (log	Fully miscible.		
Partition coefficient n-octanol/water (log	Not determined.		
value) Vapour pressure:	Not determined.		
Density and/or relative density			
Density and/or relative density Density at 20 °C:	1 g/cm³		
Relative density	Not determined.		
Vapour density	Not determined.		
9.2 Other information			
Important information on protection of hea	lth		
and environment, and on safety.			
Auto-ignition temperature:	Product is not selfigniting.		
Explosive properties:	Product does not present an explosion hazard.		
Change in condition			
Evaporation rate	Not determined.		
Information with regard to physical haza	ard		
classes			
Explosives	Void		
Flammable gases	Void		
Aerosols	Void		
Oxidising gases	Void		
Gases under pressure	Void		
Flammable liquids	Void		
Flammable solids	Void		
Self-reactive substances and mixtures	Void		
Pyrophoric liquids Byrophoric solids	Void		
Pyrophoric solids Self-heating substances and mixtures	Void Void		
Self-neating substances and mixtures Substances and mixtures, which emit	volu		
flammable gases in contact with water	Void		
Oxidising liquids	void Void		
Oxidising inquids Oxidising solids	Void Void		
	v olu		



Safety data sheet according to 1907/2006/EC

Version number 11 (replaces version 10)

Revision: 24.02.2022

Trade name: Duroval CO2 Titrationslösung

		(Contd. of page 4)
 Corrosive to metals Desensitised explosives 	Void 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** 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 hazard classes as defined in Regulation (EC) No 1272/2008

- Acute toxicity Based on available data, the classification criteria are not met.
- Skin corrosion/irritation Based on available data, the classification criteria are not met.

• Serious eye damage/irritation Based on available data, the classification criteria are not met.

· 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 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.

· 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

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.
- · 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: Not hazardous for water.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation Disposal must be made according to official regulations.

(Contd. on page 6)



Safety data sheet according to 1907/2006/EC

Version number 11 (replaces version 10)

Revision: 24.02.2022

Trade name: Duroval CO2 Titrationslösung

(Contd. of page 5)

- Uncleaned packaging:
- Recommendation:
- Packagings that may not be cleansed are to be disposed of in the same manner as the product. 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 Void · 14.2 UN proper shipping name · ADR, ADN, IMDG, IATA Void · 14.3 Transport hazard class(es) · ADR, ADN, IMDG, IATA · Class Void 14.4 Packing group · ADR, IMDG, IATA Void · 14.5 Environmental hazards: · Marine pollutant: No · 14.6 Special precautions for user Not applicable. · 14.7 Maritime transport in bulk according to IMO instruments Not applicable. Transport/Additional information: Not dangerous according to the above specifications. **UN "Model Regulation":** Void

SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- 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
- None of the ingredients is listed.
- Regulation (EC) No 273/2004 on drug precursors None of the ingredients is listed.
- Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
- None of the ingredients is listed.

(Contd. on page 7)

DE_EN-



Safety data sheet according to 1907/2006/EC

Version number 11 (replaces version 10)

Revision: 24.02.2022

Trade name: Duroval CO2 Titrationslösung

(Contd. of page 6)

· National regulations:

· Waterhazard class: Generally not hazardous for water.

· 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.

- · Department issuing SDS: product safety department
- Date of previous version: 06.04.2020
- · Version number of previous version: 10
- 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)
 PBT: Persistent, Bioaccumulative and Toxic
 SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bioaccumulative

* Data compared to the previous version altered.

DE EN-