



Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 02.02.2015

Version: 4

Revision: 02.02.2015

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** WATERSOLV NC**Article number:** EU12110**1.2 Relevant identified uses of the substance or mixture and uses advised against****Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

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

Product category

PC35 Washing and cleaning products (including solvent based products)

PC34 Textile dyes, finishing and impregnating products; including bleaches and other processing aids

Process category PROC13 Treatment of articles by dipping and pouring**Application of the substance / the mixture** Industrial cleaner**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

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SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

Eye Dam. 1 H318 Causes serious eye damage.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xn; Harmful

R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Xi; Irritant

R36: Irritating to eyes.

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- **Information concerning particular hazards for human and environment:**
The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- **Classification system:**
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

2.2 Label elements

- **Labelling according to Regulation (EC) No 1272/2008**
The substance is classified and labelled according to the CLP regulation.
- **Hazard pictograms**



GHS05 GHS08

- **Signal word** *Danger*

Hazard-determining components of labelling:

LAURETH-4

ethanediol

Laureth-7

2,2'-iminodiethanol

Hazard statements

H318 Causes serious eye damage.

H373 May cause damage to organs through prolonged or repeated exposure.

Precautionary statements

P260 Do not breathe vapours.

P280 Wear protective gloves / eye 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.

P310 Immediately call a POISON CENTER/doctor.

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

2.3 Other hazards

Results of PBT and vPvB assessment

· **PBT:** Not applicable.· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

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

Dangerous components:

CAS: 112-34-5 EINECS: 203-961-6 Reg.nr.: 01-2119475104-44-0000	2-(2-butoxyethoxy)ethanol ☒ Xi R36 ☒ Eye Irrit. 2, H319	25-50%
CAS: 107-21-1 EINECS: 203-473-3 Reg.nr.: 01-2119456816-28-xxxx	ethanediol ☒ Xn R22-48/22 ☒ STOT RE 2, H373 ☒ Acute Tox. 4, H302	10-25%
CAS: 102-71-6 EINECS: 203-049-8 Reg.nr.: 01-2119486482-31-xxxx	2,2',2''-nitrilotriethanol ☒ Xi R36 ☒ Eye Irrit. 2, H319	5-10%
CAS: 9002-92-0	LAURETH-4 ☒ Xi R41 ☒ N R50 ☒ Eye Dam. 1, H318 ☒ Skin Irrit. 2, H315	5-10%

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CAS: 61827-42-7	Laureth-7 Xn R22 Xi R38-41 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315	1-2.5%
CAS: 111-42-2 EINECS: 203-868-0 Reg.nr.: 01-2119488930-28-xxxx	2,2'-iminodiethanol Xn R22-48/22 Xi R38-41 STOT RE 2, H373 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315	1-2.5%

· **Ingredients according to Detergents Regulation 648/2004/EC**
 For the wording of the listed risk phrases refer to section 16.

Nonionic surfactants	5 - 15%
EDTA and salts thereof	< 5%
Perfumes (LIMONENE)	

SECTION 4: First aid measures

- **4.1 Description of first aid measures**
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:**
If skin irritation continues, consult a doctor.
Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **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:** No special measures required.

SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures** Not required.
- **6.2 Environmental precautions:** No special measures required.
- **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 item 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**
Ensure good ventilation/exhaustion at the workplace.
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:** No special requirements.
- **Information about storage in one common storage facility:** Not required.

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- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **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:**

112-34-5 2-(2-butoxyethoxy)ethanol (25-50%)

WEL (Great Britain) Short-term value: 101.2 mg/m³, 15 ppm
Long-term value: 67.5 mg/m³, 10 ppm

IOELV (European Union) Short-term value: 101.2 mg/m³, 15 ppm
Long-term value: 67.5 mg/m³, 10 ppm

107-21-1 ethanediol (10-25%)

WEL (Great Britain) Short-term value: 104** mg/m³, 40** ppm
Long-term value: 10* 52** mg/m³, 20** ppm
Sk *particulate **vapour

IOELV (European Union) Short-term value: 104 mg/m³, 40 ppm
Long-term value: 52 mg/m³, 20 ppm
Skin

- **DNELs**

112-34-5 2-(2-butoxyethoxy)ethanol

Dermal	DNEL Long term-systemic	10 mg/kg human/day (consumer) 20 mg/kg human/day (worker)
	DNEL Acute-local mg/m ³	50.6 mg/m ³ (consumer)
Inhalative	DNEL Long term local mg/m ³	34 mg/m ³ (consumer) 67.5 mg/m ³ (worker)
	DNEL Long term-systemic mg/m ³	34 mg/m ³ (consumer) 67.5 mg/m ³ (worker)

- **PNECs**

112-34-5 2-(2-butoxyethoxy)ethanol

PNEC Freshwater mg/L	1 mg/L (-)
PNEC Freshwater sediment	4 mg/Kg (-)
PNEC Intermittent release	3.9 (-)
PNEC Marine water sediment	0.4 mg/Kg (-)
PNEC Marinewater mg/L	0.1 mg/L (-)
PNEC Sewage treatment Plant mg/L	200 mg/L (-)

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

· 8.2 Exposure controls

- **Personal protective equipment:**

- **General protective and hygienic measures:**

Immediately remove all soiled and contaminated clothing

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

- **Respiratory protection:** Not required.

- **Protection of hands:**

- **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 374 part III 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

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· Eye protection:



Tightly sealed goggles

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Appearance:

Form:	Liquid
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.

· pH-value at 20 °C: 9.5

· Change in condition

Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	100 °C

· Flash point: > 100 °C

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 210 °C

· Decomposition temperature: Not determined.

· Self-igniting: Product is not selfigniting.

· Danger of explosion: Product does not present an explosion hazard.

· Explosion limits:

Lower:	0.7 Vol %
Upper:	53.0 Vol %

· Vapour pressure at 20 °C: 23 hPa

· Density at 20 °C: 1.018 g/cm³

· Relative density: Not determined.

· Vapour density: Not determined.

· Evaporation rate: Not determined.

· Solubility in / Miscibility with water:

Fully miscible.

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

· Viscosity:

Dynamic:	Not determined.
Kinematic:	Not determined.

· Solvent content:

Organic solvents:	62.2 %
EU-VOC:	729.7 g/l
EU-VOC	49.53 %
Swiss VOC:	41.52 %

Solids content: 0.3 %

· 9.2 Other information: No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity

· 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.

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- **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:**

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

112-34-5 2-(2-butoxyethoxy)ethanol

Oral	LD50	>2000 mg/kg (Rat)
Dermal	LD50	>2000 mg/kg (Rabbit)
	EC 50 / 48 h	>100 mg/ltr (Daphnia magna (water flea))
	EC 50 / 96 h	>100 mg/ltr (Selenastrum capricornutum (Algae))
	LC50 / 96 h	1300 mg/ltr (Lepomis Macrochirus (Bluegill Sunfish))

107-21-1 ethanediol

Oral	LD50	5840 mg/kg (Rat)
Dermal	LD50	9530 mg/kg (Rabbit)

61827-42-7 Laureth-7

Dermal	LD50	> 2000 mg/kg (Rat)
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111-42-2 2,2'-iminodiethanol

Oral	LD50	1600 mg/kg (Rat)
Dermal	LD50	12200 mg/kg (Rabbit)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:**
Strong caustic effect.
Irritating effect.
- **Sensitisation:** No sensitising effects known.
- **Additional toxicological information:**
The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Irritant

SECTION 12: Ecological information

- **12.1 Toxicity**

· **Aquatic toxicity:**

112-34-5 2-(2-butoxyethoxy)ethanol

OECD test 301 E	>70% (biodegradation in % after 28 days)
OECD test 302 B	100% (biodegradation in % after 28 days)

- **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, even in small quantities.
Danger to drinking water if even extremely 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** Must not be disposed together with household garbage. Do not allow product to reach sewage system.

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- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

SECTION 14: Transport information

- | | |
|---|-----------------|
| · 14.1 UN-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 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation": | - |

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **National regulations:**
- **Technical instructions (air):**

Class	Share in %
NK	50-75
- **Waterhazard class:** Water danger class 3 (Self-assessment): extremely 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.

- **Relevant phrases**
 - H302 Harmful if swallowed.
 - H315 Causes skin irritation.
 - H318 Causes serious eye damage.
 - H319 Causes serious eye irritation.
 - H373 May cause damage to organs through prolonged or repeated exposure.
 - R22 Harmful if swallowed.
 - R36 Irritating to eyes.
 - R38 Irritating to skin.
 - R41 Risk of serious damage to eyes.
 - R48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.
 - R50 Very toxic to aquatic organisms.
- **Department issuing MSDS:**
 - 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
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· 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)

VOCV: Lenkungsabgabe auf flüchtigen organischen Verbindungen, Schweiz (Swiss Ordinance on volatile organic compounds)

VOC: Volatile Organic Compounds (USA, EU)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2

· * Data compared to the previous version altered.

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