according to Regulation (EC) No. 1907/2006



FORYL LN DRP0150DE

Version 3.0 Revision Date 13.12.2016 Print Date 07.03.2017

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

1.1 Product identifier

Trade name : FORYL LN DRP0150DE

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

Use of the Sub- : Textile auxiliary

stance/Mixture

1.3 Details of the supplier of the safety data sheet

Company : Pulcra Chemicals GmbH

Isardamm 79 - 83 82538 Geretsried

Germany

Telephone : +49 8171 628-200

Responsible/issuing person : MSDS-DE@pulcrachem.com

1.4 Emergency telephone number

Telephone : GBK GmbH 24H Emergency Telephone Number

+49 6132 84463

: WHO Directory of poison centres www.who.int/ipcs/poisons/centre/en/

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Acute toxicity, Category 4 H302: Harmful if swallowed.

Serious eye damage, Category 1 H318: Causes serious eye damage.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H302 Harmful if swallowed.

H318 Causes serious eye damage.

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Precautionary statements : Prevention:

P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this

product.

P280 Wear eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/doctor if you feel unwell. Rinse

mouth.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously

with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a

POISON CENTER/doctor.

Disposal:

P501 Dispose of contents/ container to an ap-

proved waste disposal plant.

Hazardous components which must be listed on the label:

Alcohols, C9-11, ethoxylated

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Aqueous mixture of: polyglycol ether

Hazardous components

Chemical name	CAS-No.	Classification	Concentration
	EC-No.	(REGULATION (EC) No	[%]
	Registration number	1272/2008)	
Alcohols, C9-11, ethoxylated	68439-46-3	Acute Tox.4; H302	>= 70 - < 90
	Polymer	Eye Dam.1; H318	

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice : If you feel unwell, seek medical advice (show the label where

possible).

Show this safety data sheet to the doctor in attendance. Take off contaminated clothing and shoes immediately.

If inhaled : Move to fresh air.

If breathing is difficult, remove victim to fresh air and keep at

rest in a position comfortable for breathing.

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Call a physician immediately.

In case of skin contact : Wash with plenty of soap and water.

Cover wound with sterile dressing.

Take off contaminated clothing and shoes immediately.

Call a physician immediately.

In case of eye contact : If easy to do, remove contact lens, if worn.

Rinse immediately with plenty of water, also under the eyelids.

Get medical attention immediately.

If swallowed : IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

IF SWALLOWED: Immediately call a POISON

CENTER/doctor.

If a person vomits when lying on his back, place him in the

recovery position.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Product is compatible with standard fire-fighting agents.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: Do not use a solid water stream as it may scatter and spread

fire

Hazardous decomposition products formed under fire condi-

tions.

Exposure to decomposition products may be a hazard to

health.

5.3 Advice for firefighters

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if nec-

essary.

Further information : Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local cir-

cumstances and the surrounding environment.

In the event of fire and/or explosion do not breathe fumes. Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

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SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment.

Avoid contact with skin, eyes and clothing.

Remove all sources of ignition.

Immediately evacuate personnel to safe areas.

In the case of vapour formation use a respirator with an ap-

proved filter.

In the case of dust or aerosol formation use respirator with an

approved filter.

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Clean contaminated surface thoroughly.

6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Technical measures : Ground and bond container and receiving equipment.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : For personal protection see section 8.

Do not breathe vapours or spray mist. Avoid contact with skin and eyes.

Advice on protection against

fire and explosion

: Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety

practice.

Avoid contact with skin, eyes and clothing. When using do not eat, drink or smoke.

Wash hands before breaks and at the end of workday.

Wash contaminated clothing before re-use.

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Dust explosion class : Not applicable

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage

areas and containers

: Keep containers tightly closed in a dry, cool and well-

ventilated place.

Keep away from heat and sources of ignition.

Advice on common storage : Keep away from food and drink.

Keep away from oxidizing agents, strongly alkaline and strong-

ly acid materials in order to avoid exothermic reactions.

Storage class (TRGS 510) : 10, Combustible liquids

Storage temperature : 5 - 35 °C

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : For further information, refer to the product technical data

sheet.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Contains no substances with occupational exposure limit values.

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

No data available

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

Hand protection

Material : Protective gloves complying with EN 374.

Remarks : Choose gloves to protect hands against chemicals depending

on the concentration and quantity of the hazardous substance

and specific to place of work.

For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves

with the glove manufacturer.

Skin and body protection : Choose body protection according to the amount and concen-

tration of the dangerous substance at the work place.

Respiratory protection : In case of inadequate ventilation wear respiratory protection.

In case of mist, spray or aerosol exposure wear suitable per-

sonal respiratory protection and protective suit.

Suitable respiratory equipment:

according to Regulation (EC) No. 1907/2006



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Respirator with combination filter for vapour/particulate (EN

141)

See information supplied by the manufacturer.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : colourless
Odour : odourless

Odour Threshold : No data available

pH : 5,0 - 8,0, Concentration: 100 g/l

Method: ISO 976

Melting point/freezing point : No data available Initial boiling point and boiling : No data available

range

Flash point : > 100 °C

Method: ISO 2592

Evaporation rate : No data available
Upper explosion limit : No data available
Lower explosion limit : No data available
Vapour pressure : No data available
Relative density : No data available
Density : ca. 1 g/cm3 (20 °C)

Water solubility : soluble (20 °C)

Partition coefficient: n-

octanol/water

: No data available

Auto-ignition temperature : No data available
Thermal decomposition : No data available
Viscosity, kinematic : No data available
Explosive properties : No data available
Oxidizing properties : No data available

9.2 Other information

No data available

according to Regulation (EC) No. 1907/2006



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SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : Protect from contamination.

Oxidizing material can cause a reaction.

10.5 Incompatible materials

Materials to avoid : No data available

10.6 Hazardous decomposition products

Hazardous decomposition

products

: Build-up of dangerous/toxic fumes possible in cases of

fire/high temperature.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Acute oral toxicity : Acute toxicity estimate : 1.531 mg/kg

Method: Calculation method

Acute inhalation toxicity : No data available

Acute dermal toxicity : No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

No data available

according to Regulation (EC) No. 1907/2006



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Germ cell mutagenicity

Genotoxicity in vitro : No data available

Genotoxicity in vivo : No data available

Germ cell mutagenicity- As-

sessment

: No data available

Carcinogenicity

This information is not available.

Carcinogenicity - Assess-

ment

: No data available

Reproductive toxicity

Effects on foetal develop-

ment

: No data available

Reproductive toxicity - As-

sessment

: No data available

Teratogenicity - Assessment : No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Repeated dose toxicity

This information is not available.

Aspiration toxicity

No data available

Further information

This product is a mixture. Health hazard information is based on its components.

SECTION 12: Ecological information

12.1 Toxicity

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Toxicity to fish : LC50 (Fish): > 1 - 10 mg/l

Method: No information available. GLP: No information available.

Information taken from reference works and the literature.

Information refers to the main component.

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia magna (Water flea)): > 1 - 10 mg/l

Method: No information available. GLP: No information available.

Information taken from reference works and the literature.

Information refers to the main component.

Toxicity to algae : EC50 (algae): > 1 - 10 mg/l

Method: No information available. GLP: No information available.

Information taken from reference works and the literature.

Information refers to the main component.

Toxicity to fish (Chronic tox-

icity)

: NOEC: 1,5 mg/l Species: Fish

Method: No information available. GLP: No information available.

Information taken from reference works and the literature.

Information refers to the main component.

12.2 Persistence and degradability

Biodegradability : The total of the organic components contained in the product

achieve > 60% BOD/COD or CO2 liberation, or > 70% DOC reduction in tests for ease of degradability - threshold values

for 'readily degradable' (e.g. to OECD method 301).

The surfactant(s) contained in this product complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. Information given is based on data on the components and

the ecotoxicology of similar products.

Chemical Oxygen Demand

(COD)

: 2.421 mg/g

12.3 Bioaccumulative potential

Bioaccumulation : No data available

12.4 Mobility in soil

Mobility : Medium: Soil

No data available

12.5 Results of PBT and vPvB assessment

Assessment : This substance/mixture contains no components considered

to be either persistent, bioaccumulative and toxic (PBT), or

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very persistent and very bioaccumulative (vPvB) at levels of

0.1% or higher.

12.6 Other adverse effects

Additional ecological infor-

mation

: Information given is based on data on the components and

the ecotoxicology of similar products.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : In accordance with local and national regulations.

Do not dispose of waste into sewer.

Do not dispose of together with household waste.

Contaminated packaging : Empty containers should be taken to an approved waste han-

dling site for recycling or disposal. Dispose of as unused product.

SECTION 14: Transport information

14.1 UN number

ADR : Not dangerous goods
RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.2 UN proper shipping name

ADR : Not dangerous goods
RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.3 Transport hazard class

ADR : Not dangerous goods
RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.4 Packing group

ADR : Not dangerous goods
RID : Not dangerous goods
IMDG : Not dangerous goods
IATA : Not dangerous goods

14.5 Environmental hazards

ADR : Not dangerous goods RID : Not dangerous goods

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IMDG : Not dangerous goodsIATA : Not dangerous goods

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import

of dangerous chemicals

: Not applicable

REACH - Candidate List of Substances of Very High

Concern for Authorisation (Article 59).

: Not applicable

Regulation (EC) No 1005/2009 on substances that de-

plete the ozone layer

: Not applicable

Regulation (EC) No 850/2004 on persistent organic pol-

lutants

: Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Water contaminating class

(Germany)

: WGK 2 water endangering

Classification according VwVwS, Annex 4.

TA Luft List (Germany) : Total dust: Not applicable

: Inorganic substances in powdered form: Not applicable

: Inorganic substances in vapour or gaseous form: Not applica-

ble

Organic Substances: portionClass 1: < 0,01 %
Carcinogenic substances: portionClass 2: < 0,01 %

: Mutagenic: others: < 0,01 %

: Toxic to reproduction: Not applicable

15.2 Chemical safety assessment

A chemical safety assessment (Chemical Safety Assessment) is not required for this mixture.

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SECTION 16: Other information

Full text of H-Statements

H302 : Harmful if swallowed.

H318 : Causes serious eye damage.

Full text of other abbreviations

Acute Tox. : Acute toxicity

Eye Dam. : Serious eye damage

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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