



# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 03.04.2009

Version 12

Revision: 03.04.2009

## 1 Identification of substance:

- **Product details:**
- **Trade name:** Develoclean
- **Article number:** 01159
- **Application of the substance / the preparation**  
Photochemicals  
Photographic developer (additive)  
Photographic fixer (additive)  
Reserved for industrial and professional use.
- **Manufacturer/Supplier:**  
ADEFO-CHEMIE GmbH  
Justus-von-Liebig-Str. 24-26  
D-63128 Dietzenbach  
Tel.: +49 6074 84239-0  
Fax: +49 6074 84239-63  
E-Mail: [service@adefo-chemie.de](mailto:service@adefo-chemie.de)  
[www.adefo-chemie.de](http://www.adefo-chemie.de)
- **Informing department:**  
Tel.: +49 6074 84239-0  
Fax: +49 6074 84239-63  
Competent person according to 1907/2006/EC, Annex II:  
E-Mail: [kr@calbe-chemie.de](mailto:kr@calbe-chemie.de)
- **Emergency information:** Tel.: 0700-24112112 (CAL)

## 2 Hazards identification

- **Hazard designation:** void
- **Information pertaining to particular dangers for man and environment** void
- **Classification system**  
The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

## 3 Composition/information on ingredients

- **Chemical characterization**
- **Description:** Mixture of the substances listed below with harmless additions.

- **Dangerous components:**

CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol	Xi, F; R 11-36-67	5.0-10%
	Nonylphenololigoglycerinether		5.0-10%
	Main component: water		80-90%

## 4 First aid measures

- **General information** No special measures required.
- **After inhalation** Supply fresh air.
- **After skin contact** The product is not skin irritating.

(Contd. on page 2)

GB



## Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 03.04.2009

Version 12

Revision: 03.04.2009

**Trade name: Develoclean**

(Contd. of page 1)

- **After eye contact**  
Rinse opened eye for several minutes under running water (> 15 min). Then consult doctor.
- **After swallowing**  
Rinse out mouth and then drink plenty of water.  
Seek medical treatment.
- **Information for doctor**
- **The following symptoms may occur:** No known symptoms to date.

### 5 Fire fighting measures

- **Suitable extinguishing agents**  
CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet.  
Use fire fighting measures that suit the environment.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards caused by the material, its products of combustion or resulting gases:**  
Formation of toxic gases is possible during heating or in case of fire.
- **Protective equipment:** Do not inhale explosion gases or combustion gases.

### 6 Accidental release measures

- **Person-related safety precautions:** Wear protective clothing.
- **Measures for environmental protection:**  
Do not allow to enter drainage system, surface or ground water.
- **Measures for cleaning/collecting:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose of contaminated material as waste according to item 13.
- **Additional information:**  
See Section 8 for information on personal protection equipment.  
See Section 13 for information on disposal.

### 7 Handling and storage

- **Handling**
- **Information for safe handling:** The lists that were valid during the compilation were used as basis.
- **Information about protection against explosions and fires:**  
No special measures required.  
The product is not flammable
- **Storage**
- **Requirements to be met by storerooms and containers:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:**  
Keep container tightly sealed.  
Store in a cool place.
- **Recommended storage temperature:** 5-30 °C
- **Storage class** LGK 12 (VCI-Concept)

GB

(Contd. on page 3)



## Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 03.04.2009

Version 12

Revision: 03.04.2009

Trade name: Develoclean

(Contd. of page 2)

### 8 Exposure controls and personal protection

- **Additional information about design of technical systems:** No further data; see item 7.

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

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

WEL	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm Long-term value: 999 mg/m <sup>3</sup> , 400 ppm
-----	--

- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures**  
The usual precautionary measures should be adhered to general rules for handling chemicals.
- **Breathing equipment:** Not required.
- **Protection of hands:**  
Protective gloves.  
The protective gloves to be used must comply with the specifications of the EC directive 89/686/EEC and the resultant standard EN 374.  
This recommendation applies only to the product stated in the Safety Data Sheet and supplied by us as well as to the purpose specified by us.  
Only use chemical-protective gloves with CE-labelling of category III.  
Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation
- **Material of gloves** Synthetic gloves
- **As protection from splashes gloves made of the following materials are suitable:**  
Synthetic gloves  
Value for permeation: Level:  
≥ 3 (60 min)
- **Not suitable are gloves made of the following materials:** Natural rubber, NR
- **Eye protection:** Safety glasses

### 9 Physical and chemical properties:

- **General Information**

<b>Form:</b>	Fluid
<b>Colour:</b>	Light brown
<b>Odour:</b>	Not characteristic

- **Change in condition**

<b>Melting point/Melting range:</b>	Not determined
<b>Boiling point/Boiling range:</b>	> 82 °C

- **Flash point:** Not applicable
- **Self-inflammability:** Product is not selfigniting.
- **Danger of explosion:** Product is not explosive.
- **Vapour pressure at 20 °C:** 23 mbar
- **Density at 20 °C** 1.024 g/cm<sup>3</sup>
- **Solubility in / Miscibility with Water:** miscible

(Contd. on page 4)

GB



# Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 03.04.2009

Version 12

Revision: 03.04.2009

**Trade name: Develoclean**

(Contd. of page 3)

· <b>pH-value at 20°C:</b>	7.3
· <b>Solvent content:</b>	
<b>Organic solvents:</b>	5.4 %
<b>Water:</b>	85.7 %
· <b>Solids content:</b>	2.6 %

## 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used according to specifications.
- **Dangerous reactions** No dangerous reactions known
- **Dangerous products of decomposition:** No dangerous decomposition products known

## 11 Toxicological information

- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritant effect.
- **Sensitization:** No sensitizing effect known.
- **Subacute to chronic toxicity:** No known symptoms to date.
- **Additional toxicological information:**  
The product is not subject to classification according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.  
This statement was deduced from the properties of the single components.

## 12 Ecological information:

- **Information about elimination (persistence and degradability):** Not determined
- **Behaviour in environmental systems:** Not determined
- **Mobility and bioaccumulation potential:** Not determined
- **Ecotoxicological effects:** Not determined
- **Acquatic toxicity:** Not determined
- **Behaviour in sewage processing plants:** Not determined
- **General notes:**  
Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water.  
Do not allow product to reach ground water, water bodies or sewage system.  
At present there are no ecotoxicological assessments.  
The product does not contain organically bounded halogens (AOX-free).

GB

(Contd. on page 5)



## Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 03.04.2009

Version 12

Revision: 03.04.2009

**Trade name: Develoclean**

(Contd. of page 4)

### 13 Disposal considerations

**Product:****Recommendation**

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Must be specially treated under adherence to official regulations.

**European waste catalogue**

09 01 01	water-based developer and activator solutions
----------	---

**Uncleaned packagings:****Recommendation:**

Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

Packagings that cannot be cleaned are to be disposed of in the same manner as the product. EAK-No. 15 01 10

**Recommended cleaning agent:** Water, if necessary with cleaning agent.

### 14 Transport information

**Land transport ADR/RID (cross-border)**

**ADR/RID-GGVS/E Class:** -

**Designation of goods:** -

**Maritime transport IMDG:**

**IMDG Class:** -

**Air transport ICAO-TI and IATA-DGR:**

**ICAO/IATA Class:** -

**Transport/Additional information:** Not dangerous according to the above specifications.

### 15 Regulatory information

**Designation according to EC guidelines:**

The product is not subject to identification regulations under EC Directives and the Ordinance on Hazardous Materials (GefStoffV).

**Special designation of certain preparations:**

Safety data sheet available for professional user on request.

**National regulations****Technical instructions (air):**

Class	Share in %
NK	5.4

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

### 16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

(Contd. on page 6)



## Safety Data Sheet

according to 1907/2006/EC, Article 31

Printing date 03.04.2009

Version 12

Revision: 03.04.2009

**Trade name: Develoclean**

(Contd. of page 5)

**· Relevant R-phrases**

- 11 Highly flammable.
- 36 Irritating to eyes.
- 67 Vapours may cause drowsiness and dizziness.

**· Recommended restriction of use** No public product, only for commercial use**· Sources**

applicable EEC directives:

- 1999/45/EC last change 2006/8/EC
  - 67/548/EC last change 2004/73/EC (29. ATP)
- Internal physical tests, MSDS of the ingredients

**· \* Data compared to the previous version altered.**

GB