

# **SAFETY DATA SHEET**

According to EC 1907/2006 (REACH)

Date last verification : 2017-05-29 Version number : 5.0

Revision date : 2017-05-29 Publication date : 2004-01-26

Last modifications in sections: 2 - 3

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

### 1.1. Product identifier

**SDS** : 21617

**Supplier** : POLYCHROMAL B.V.

Postbus 8043 1802 KA Alkmaar The Netherlands TEL:+31 72 5670799 FAX:+31 72 5624095

Tradename : POROPRINT PENETRATING RETARDER

Chemical name : ETHYL DIGLYCOL

 CAS number
 : 111-90-0

 EC-number
 : 203-919-7

 REACH registration number
 : 01-2119475105-42

Formula : C<sub>2</sub>H<sub>5</sub>O(CH<sub>2</sub>)<sub>2</sub>O(CH<sub>2</sub>)<sub>2</sub>OH

Molecular weight : 134.20

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

Use : Various

Uses advised against : Data not available.

## 1.3. Details of the supplier of the safety data sheet

Supplier safety data sheet : Philips Electronics Nederland B.V., Philips Environment & Safety, High Tech Campus 37, 5656 AE

Eindhoven, Tel. +31 (0)40 2747588

Responsible department : dangerous.goods@philips.com

## 1.4. Emergency telephone number

Emergency telephone number : +31 (0)497-598315

# \* SECTION 2: Hazards identification

# 2.1. Classification of the substance or mixture

(EC) No 1272/2008

Serious eye irritation Category 2 H319

## 2.2. Label elements

(EC) No 1272/2008

Hazard pictogram(s)



Signal word: Warning

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**Hazard statements** 

H319 Causes serious eye irritation.

**Precautionary statements** 

P264 Wash hands/skin thoroughly after handling. P280 3 Wear eye protection/face 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

P337+P313 If eye irritation persists: Get medical advice/attention.

ETHYL DIGLYCOL Hazardous component(s)

Remarks on labelling none

#### 2.3. Other hazards

If applicable: see section 6.1 and section 7.1

# **SECTION 3: Composition/information on ingredients**

Component	CAS-no. EC-no.	Index No. Registration no.	- Percentage(%)	Label	
ETHYL DIGLYCOL	111-90-0 203-919-7	01-2119475105-42	_ 100.0	GHS07 H319	Eye irrit. 2

For the full text of the H-sentences mentioned in this section, see section 16.

# **SECTION 4: First aid measures**

#### 4.1. Description of first aid measures

Skin Remove contaminated clothes as soon as possible. Remove residue substance as soon as possible (e.g. rinse with plenty

of water). In case of a serious exposure call for a doctor.

Ingestion If victim is conscious let him rinse the mouth with water. Do NOT let him drink. In case of general disorders bring victim into

the hospital, otherwise call for a doctor.

Inhalation Bring victim into the fresh air as soon as possible and let rest. In case of severe exposure call for a doctor. In case of

breathing problems, loose squeezing clothes and if victim is conscious bring victim in high sitting position. In case of

stagnation of breathing give IMMEDIATELY oxygen and transport to hospital as soon as possible.

Eyes Rinse for a long time with plenty of water. In case of eye-sight disturbances bring victim immediately into the hospital, in

other cases call for a doctor

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

Skin The substance is prickling: redness.

Degreasing: in case of sustained contact a rough, dry skin, eczema.

general The substance may be absorbed via the skin. Ingestion

The substance is prickling: sore throat. local

general The substance may be absorbed after ingestion. Inhalation The substance is with atomising prickling: sore throat. local The substance may be absorbed after inhalation. general

Eves local The substance is irritating: redness, pain.

Remarks symptoms The substance has an effect on: the liver, the kidneys, the central nervous system, the

the male genitalia.

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

For advice on further treatment contact a (national) poison center.

# **SECTION 5: Firefighting measures**

#### 5.1. **Extinguishing media**

### Suitable fire-extinguisher

carbon dioxide, extinguishing powder, water spray, alcohol resistant foam

#### Unsuitable fire-extinguisher

not traceable

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

Hazardous decomposition products in fire : carbon monoxide

#### 5.3. Advice for firefighters

In the event of fire, wear protective clothing and use breathing apparatus that is independent of the ambient air.

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# **SECTION 6: Accidental release measures**

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

#### **Precautions**

Use protective equipment. See section 8.

Read label before use.

#### **Emergency procedure**

Is not to be expected.

### 6.2. Environmental precautions

Remainder material or uncleaned empty packagings have to be incinerated in a proper installation or dumped on an approved landfill, in accordance with local and national legislation.

# 6.3. Methods and material for containment and cleaning up

### Spillage procedure

Absorb the liquid in appropriate absorbent (e.g. Powersorb, dry sand, diatomite, vermiculite etc.), shovel the mixture into plastic bags and remove to the central depot for hazardous waste.

#### 6.4. Reference to other sections

See section 8 for appropriate personal protection.

See section 13 for additional information on waste treatment.

# **SECTION 7: Handling and storage**

# 7.1. Precautions for safe handling

Observe label precautions.

Do not eat, drink or smoke in work areas. Remove contaminated clothing and protective equipment. Wash hands after leaving the work area.

Local exhausting : Depends on processing circumstances, but at least good room ventilation.

Storage code (on behalf of PGS: none

15)

## 7.2. Conditions for safe storage, including any incompatibilities

**Storage conditions** : See also any precautionary statements in section 2.2.

Store product in a closed packaging, cool, dry, under inert gas, in a well ventilated area.

# 7.3. Specific end use(s)

Data not available.

# **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

#### **Exposure limits:**

applicable to: The Netherlands (20 °C; 1013 mbar)

TWA(8 hours): 180 mg/m3 S ETHYL DIGLYCOL

applicable to: Sweden (20 °C; 1013 mbar)

TWA(15 minutes): 170 mg/m3 C S ETHYL DIGLYCOL TWA(8 hours): 80 mg/m3 S ETHYL DIGLYCOL

applicable to: Switzerland (20 °C; 1013 mbar)

TWA(8 hours): 50 mg/m3 ETHYL DIGLYCOL(as inhalable dust)
TWA(15 minutes): 100 mg/m3 ETHYL DIGLYCOL(as inhalable dust)

C=Ceiling; S=Skin

#### Remarks exposure limits:

none

### **DNEL (Derived No Effect Level)**

Worker - Inhalation - Long term exposure - Systemic effects: 37 mg/m3

ETHYL DIGLYCOL
Source : Chemicalcards

Worker - Dermal - Long term exposure - Systemic effects: 50 mg/kg bw/day

ETHYL DIGLYCOL

Source : Chemicalcards

PNEC (Predicted No Effect Concentration)

Fresh water: 0.74 mg/l ETHYL DIGLYCOL Source : Chemicalcards Marine water: 0.074 mg/l ETHYL DIGLYCOL Source : Chemicalcards Intermittent releases: 10 mg/l ETHYL DIGLYCOL Source : Chemicalcards

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### 8.2. Exposure controls

Advised personal protection:

Hands : butyl rubber gloves neoprene gloves

Breakthrough time : For information: consult the supplier of the gloves.

Eyes : acid goggles

Inhalation : none (when sufficient exhausting)

Skin : protective clothing (such as: apron, coverall, boots)

# **SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

Melting point/range :  $\geq -80 \, ^{\circ}\text{C} - \leq -76 \, ^{\circ}\text{C}$ Apparent melting point : not applicable

**Boiling point/range** : ≥195 °C - ≤203 °C (1013 mbar)

Flash point/range : ≥93 °C - ≤96 °C Vapor rate/range : not traceable Flammability (solid, gas) : data not available

**Explosive limits** : LEL:≥1.2 vol.% - UEL:≤23.5 vol.%

Vapour pressure : 0.01 kPa (20 °C)

**Relative density** : ≥0.990 - ≤0.999 (water=1) (20 °C)

Solubility in water : complete
Log Po/w : -0.80
Autoignition temperature : ≥202 °C - ≤218 °C

Decomposition temperature : not traceable
Viscosity : 3.9 mPa.s (25 °C)
Dust explosions possible in air : not applicable

Oxidising properties : no

### 9.2. Other information

Solubility in fat : not traceable Electrostatic chargement : not traceable Critical temperature : not applicable

General : Product is hydroscopic.

# **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

See section 10.2 - 10.6.

#### 10.2. Chemical stability

The substance or mixture is stable under normal conditions. See also section 10.4.

## 10.3. Possibility of hazardous reactions

Reactions with water : no

Other hazardous conditions : In contact with air peroxides may be formed.

# 10.4. Conditions to avoid

Data not available.

# 10.5. Incompatible materials

Hazardous reactions with : oxidizing substances, strong acids, strong alkaline solutions, light metals, acid chlorides,

acid anhydrides, oxygen, see info. section 10.3 SDS

Source

: IUCLID

### 10.6. Hazardous decomposition products

Hazardous decomposition products at heating : none

## **SECTION 11: Toxicological information**

# 11.1. Information on toxicological effects

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Acute oral toxicity

LD-50: 5.5 g/kg (ORL-RAT) ETHYL DIGLYCOL Source : Easi View

Acute dermal toxicity

LD-50: 8.5 g/kg (SKN-RBT) ETHYL DIGLYCOL Source : Easi View

Acute inhalation toxicity

There are no data available.

Ames test

not traceable

Skin corrosion/irritation

The substance or mixture is not classified for skin corrosion/-irritation.

Serious eye damage/irritation

Causes serious eye irritation

Respiratory or skin sensitisation

The substance or mixture is not classified for respiratory or skin sensitisation.

Germ cell mutagenicity

The substance or mixture is not classified for germ cell mutagenicity.

Carcinogenicity

The substance or mixture is not classified for carcinogenicity.

Additional information regarding carcinogenicity (NTP, IARC, OSHA)

NTP: no IARC: no OSHA: no ETHYL DIGLYCOL

Reproductive toxicity

The substance or mixture is not classified for reproductive toxicity.

Specific target organ toxicity-single exposure

The substance or mixture is not classified for specific target organ toxicity-single exposure.

Specific target organ toxicity-repeated exposure

The substance or mixture is not classified for specific target organ toxicity-repeated exposure.

Aspiration hazard

The substance or mixture is not classified for aspiration hazard.

**Symptoms** 

Skin local : The substance is prickling: redness.

: Degreasing: in case of sustained contact a rough, dry skin, eczema.

general : The substance may be absorbed via the skin.

Ingestion local : The substance is prickling: sore throat.

general : The substance may be absorbed after ingestion.

Inhalation local : The substance is with atomising prickling: sore throat. general : The substance may be absorbed after inhalation.

Eyes local : The substance is irritating: redness, pain.

Remarks symptoms : The substance has an effect on: the liver, the kidneys, the central nervous system, the

the male genitalia.

# **SECTION 12: Ecological information**

# 12.1. Toxicity

**Ecotoxicity** 

LC-50: 13400 mg/l/96H (Fish) ETHYL DIGLYCOL **Source** : IUCLID EC-50: ≥3940 - ≤4670 mg/l/48H (Daphnia) ETHYL DIGLYCOL **Source** : IUCLID

12.2. Persistence and degradability

Biological oxygen demand : not traceable

Chemical oxygen demand : 1.74 g/g ETHYL DIGLYCOL Source : IUCLID Biological/chemical oxygen : not traceable

Biological/chemical oxygen demand ratio

Degradability : not traceable

Degradability . Not traceable

12.3. Bioaccumulative potential

Bioconcentration factor : not traceable

(BCF)

Log Po/w : -0.80 ETHYL DIGLYCOL Source : IUCLID

12.4. Mobility in soil

Henry Constant : not traceable

## 2.5. Results of PBT and vPvB assessment

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Data not available.

#### 12.6. Other adverse effects

Remarks on ecotoxicity : none

# **SECTION 13: Disposal considerations**

#### 13.1. Waste treatment methods

Remainder material or uncleaned empty packagings have to be incinerated in a proper installation or dumped on an approved landfill, in accordance with local and national legislation.

# **SECTION 14: Transport information**

#### 14.1. UN number

Not subject to Transport-regulation Dangerous Substances

### 14.2. UN proper shipping name

Not subject to Transport-regulation Dangerous Substances

### 14.3. Transport hazard class(es)

Not subject to Transport-regulation Dangerous Substances

## 14.4. Packing group

Not subject to Transport-regulation Dangerous Substances

#### 14.5. Environmental hazards

Marine pollutant : no

### 14.6. Special precautions for user

Not subject to Transport-regulation Dangerous Substances

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Data not available.

# **SECTION 15: Regulatory information**

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

- The component(s), as mentioned in section 3, are registered in the Toxic Substances Control Act Inventory (TSCA-USA).

### 15.2. Chemical safety assessment

Data not available.

# **SECTION 16: Other information**

Remarks on SDS : none

#### Overview relevant H-sentences from all components in section 3

H319 Causes serious eye irritation.

# Training advice

Provide adequate information, instruction and training for operators.

# A key or legend to abbreviations and acronyms used in the safety data sheet

REACH Registration, Evaluation and Authorisation of CHemicals

GHS Globally Harmonised System of Classification and Labelling of Chemicals

CAS
TGG = TWA
LEL
UEL
VTP
NTP
NATION
TIME Weighted Average
Lower Explosive Limit
Upper Explosive Limit
NTP
National Toxicology Program
KHC
Known Human Carcinogen

RAHC Reasonably Anticipated Human Carcinogen IARC International Agency for Research on Cancer

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OSHA Occupational Safety & Health Administration

**ADR** Accord européen relatif au transport international des marchandises Dangereuses par Route Règlement concernant le transport international ferroviaire des marchandises dangereuses RID

**United Nations** UN

International Maritime Dangerous Goods International Maritime Organization **IMDG** IMO IATA International Air Transport Association International Civil Aviation Organization ICAO

**Emergency Schedule** EmS

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<sup>\*</sup> Point to alterations with regard to the previous version.

The information provided in this Safety Data Sheet is believed to be correct as of the date issued. Philips Electronics Nederland B.V. makes no warranty as to its contents, nor as to its fitness for any particular purpose or use.