SAFETY DATA SHEET

According to EC 1907/2006 (REACH)

Date last verification : 2017-05-29
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Version number : 4.0

Last modifications in sections : 2 - 3

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

1.1. Product identifier

SDS : 24789
Supplier : POLYCHROMAL B.V.

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

Tradename : POROPRINT YW01B

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

General description : PRINTING INK
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 27 41 645
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

Not classified according to GHS classification.

2.2. Label elements

(EC) No 1272/2008

Label : not applicable

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
DIPROPYLENE GLYCOL MONOMETHYL ETHER	34590-94-8 / 252-104-2	01-2119450011-60 / 01-2119991100-47	≥80.0	
ETHYLCELLULOSE	9004-57-3		<10.0	

Component	CAS-no. / EC-no.	Index No. / Registration no.	Percentage(%)	Label
DYE YELLOW (N; R51/53)	Confidential / Confidential		<2.5	GHS09 H411 Aquatic chronic 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 residue substance as soon as possible from the skin (f.i. rinse with plenty of water).
Ingestion : If the victim is conscious let him rinse the mouth with water. Do NOT let him drink. In case of general disorders call for a doctor.
Inhalation : Bring the victim into the fresh air as soon as possible, let rest and if necessary call for a doctor.
Eyes : Rinse for a long time with plenty of water. In case of eye-sight disturbances consult a doctor.

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

Skin	local	:	The substance is prickling: redness.
		:	Degreasing: in case of sustained contact a rough, dry skin, eczema.
	general	:	Probably no absorbtion worth mentioning.
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 prickling: redness.
Remarks symptoms		:	The substance has an effect on: the liver, the kidneys, the nervous system.

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, nitrous oxides, chromium(III)oxides

5.3. Advice for firefighters

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

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Precautions
Use protective equipment. See section 8.

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 : Under normal circumstances not applicable.

Storage code (on behalf of PGS 15) : none

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : See also any precautionary statements in section 2.2.
Store product protected from the sun, protected from proximity to other sources of heat, dry, in a closed packaging, in a well ventilated area.

Storage temperature : <40 °C

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):	300 mg/m3			DIPROPYLENE GLYCOL MONOMETHYL ETHER	(Statutory threshold limit value)
No TWA has been laid down.				ETHYLCELLULOSE	
TWA(8 hours):	0.5 mg/m3			DYE YELLOW (N; R51/53)(as chromium)	(Statutory threshold limit value)
TWA(15 minutes):	1 mg/m3			DYE YELLOW (N; R51/53)(as chromium)	(Statutory threshold limit value)
applicable to:	**Belgium (20 °C; 1013 mbar)**				
TWA(8 hours):	308 mg/m3		S	DIPROPYLENE GLYCOL MONOMETHYL ETHER	
TWA(8 hours):	0.5 mg/m3			DYE YELLOW (N; R51/53)(as chromium)	
applicable to:	**Germany (20 °C; 1013 mbar)**				
TWA(8 hours):	310 mg/m3			DIPROPYLENE GLYCOL MONOMETHYL ETHER	
applicable to:	**United States of America (25 °C; 1013 mbar)**				
TWA(8 hours):	606 mg/m3		S	DIPROPYLENE GLYCOL MONOMETHYL ETHER-[according to ACGIH]	
TWA(15 minutes):	910 mg/m3		S	DIPROPYLENE GLYCOL MONOMETHYL ETHER-[according to ACGIH]	
TWA(8 hours):	600 mg/m3		S	DIPROPYLENE GLYCOL MONOMETHYL ETHER-[according to OSHA]	
TWA(8 hours):	0.5 mg/m3			DYE YELLOW (N; R51/53)(as chromium) - [according to ACGIH]	
TWA(8 hours):	0.5 mg/m3			DYE YELLOW (N; R51/53)(as chromium) - [according to OSHA]	
applicable to:	**Sweden (20 °C; 1013 mbar)**				
TWA(15 minutes):	450 mg/m3	C	S	DIPROPYLENE GLYCOL MONOMETHYL ETHER	
TWA(8 hours):	300 mg/m3		S	DIPROPYLENE GLYCOL MONOMETHYL ETHER	
applicable to:	**Switzerland (20 °C; 1013 mbar)**				
TWA(8 hours):	300 mg/m3			DIPROPYLENE GLYCOL MONOMETHYL ETHER	
TWA(15 minutes):	300 mg/m3			DIPROPYLENE GLYCOL MONOMETHYL ETHER	
TWA(8 hours):	0.5 mg/m3			DYE YELLOW (N; R51/53)(as chromium, inhalable dust)	
applicable to:	**China (20 °C; 1013 mbar)**				
TWA(8 hours):	600 mg/m3		S	DIPROPYLENE GLYCOL MONOMETHYL ETHER	
TWA(15 minutes):	900 mg/m3		S	DIPROPYLENE GLYCOL MONOMETHYL ETHER	
applicable to:	**European Union (20 °C; 1013 mbar)**				
TWA(8 hours):	308 mg/m3		S	DIPROPYLENE GLYCOL MONOMETHYL ETHER	

C=Ceiling; S=Skin

Remarks exposure limits :
none

DNEL (Derived No Effect Level)

Worker - Inhalation - Long term exposure - Systemic effects: 308 mg/m3
DIPROPYLENE GLYCOL MONOMETHYL ETHER
Source : ECHA

Worker - Dermal - Long term exposure - Systemic effects: 283 mg/kg bw/day
DIPROPYLENE GLYCOL MONOMETHYL ETHER
Source : ECHA

Consumer - Inhalation - Long term exposure - Systemic effects: 37.2 mg/m3 — DIPROPYLENE GLYCOL MONOMETHYL ETHER — **Source** : ECHA

Consumer - Dermal - Long term exposure - Systemic effects: 121 mg/kg bw/day — DIPROPYLENE GLYCOL MONOMETHYL ETHER — **Source** : ECHA

Consumer - Oral - Long term exposure - Systemic effects: 36 mg/kg bw/day — DIPROPYLENE GLYCOL MONOMETHYL ETHER — **Source** : ECHA

PNEC (Predicted No Effect Concentration)

Fresh water: 19 mg/l	DIPROPYLENE GLYCOL MONOMETHYL ETHER	**Source** : ECHA
Marine water: 1.9 mg/l	DIPROPYLENE GLYCOL MONOMETHYL ETHER	**Source** : ECHA
Fresh water sediment: 70.2 mg/kg	DIPROPYLENE GLYCOL MONOMETHYL ETHER	**Source** : ECHA
Marine water sediment: 7.02 mg/kg	DIPROPYLENE GLYCOL MONOMETHYL ETHER	**Source** : ECHA
Soil: 2.74 mg/kg	DIPROPYLENE GLYCOL MONOMETHYL ETHER	**Source** : ECHA
Intermittent releases: 190 mg/l	DIPROPYLENE GLYCOL MONOMETHYL ETHER	**Source** : ECHA
Sewage Treatment Plant (STP): 4168 mg/l	DIPROPYLENE GLYCOL MONOMETHYL ETHER	**Source** : ECHA

8.2. Exposure controls

Advised personal protection :

Hands	:	butyl rubber gloves
Breakthrough time	:	For information: consult the supplier of the gloves.
Eyes	:	safety 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

Physical state	: liquid			
Colour	: yellow			
Odour	: ether-like			
Odour threshold (20ºC; 1013 mbar)	: 6160 mg/m3	DIPROPYLENE GLYCOL MONOMETHYL ETHER		
pH	: ≥5 - ≤9			
Melting point/range	: not traceable			
Boiling point/range	: >180 ºC (1013 mbar)			
Flash point/range	: >74 ºC			
Vapor rate/range	: not traceable			
Flammability (solid, gas)	: data not available			
Explosive limits	: LEL:≥1.1 vol.% - UEL:≤14.0 vol.%			
Vapour pressure	: ≤0.06 kPa (20 ºC)			
Relative density	: ≥0.96 - ≤0.98 (water=1) (20 ºC)			
Solubility in water	: partial			
Log Po/w	: -0.064	DIPROPYLENE GLYCOL MONOMETHYL ETHER	**Source**	: IUCLID
	5.83	ETHYLCELLULOSE	**Source**	: Easi View
Autoignition temperature	: >205 ºC			
Decomposition temperature	: not traceable			
Viscosity	: not traceable			
Dust explosions possible in air	: not applicable			
Oxidising properties	: no			

9.2. Other information

Solubility in fat	:	not traceable
Electrostatic chargement	:	not traceable
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	:	Data not available.

10.4. Conditions to avoid

Data not available.

10.5. Incompatible materials

Hazardous reactions with : oxidizing substances, strong acids, isocyanates

10.6. Hazardous decomposition products

Hazardous decomposition products at heating : none

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute oral toxicity

LD-50: 5.23 g/kg (ORL-RAT)	DIPROPYLENE GLYCOL MONOMETHYL ETHER	**Source**	: IUCLID
LD-50: >5.0 g/kg (ORL-RAT)	ETHYLCELLULOSE	**Source**	: SAX
LD-50: >5.0 g/kg (ORL-RAT)	DYE YELLOW (N; R51/53)	**Source**	: Supplier

Acute dermal toxicity

LD-50: ≥13 - <14 g/kg (SKN-RBT)	DIPROPYLENE GLYCOL MONOMETHYL ETHER	**Source**	: IUCLID
LD-50: >5.0 g/kg (SKN-RBT)	ETHYLCELLULOSE	**Source**	: SAX

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
The substance or mixture is not classified for serious eye damage/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	DIPROPYLENE GLYCOL MONOMETHYL ETHER
NTP: no	IARC: no	OSHA: no	ETHYLCELLULOSE
NTP: no	IARC: 3	OSHA: no	DYE YELLOW (N; R51/53)

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	:	Probably no absorbtion worth mentioning.
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 prickling: redness.
Remarks symptoms		:	The substance has an effect on: the liver, the kidneys, the nervous system.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

LC-50: >10000 mg/l/96H (Fish)	DIPROPYLENE GLYCOL MONOMETHYL ETHER	**Source**	: IUCLID
EC-50: >100 mg/l/48H (Daphnia)	DIPROPYLENE GLYCOL MONOMETHYL ETHER	**Source**	: Supplier
IC-50: >100 mg/l/72H (Algae)	DIPROPYLENE GLYCOL MONOMETHYL ETHER	**Source**	: Supplier

12.2. Persistence and degradability

Biological oxygen demand : not traceable
Chemical oxygen demand : 0.0020 g/g DIPROPYLENE GLYCOL MONOMETHYL ETHER **Source** : IUCLID

Biological/chemical oxygen demand ratio	: not traceable			
Degradability	: readily	DIPROPYLENE GLYCOL MONOMETHYL ETHER	**Source**	: Merck

12.3. Bioaccumulative potential

Bioconcentration factor (BCF)	: <100	DIPROPYLENE GLYCOL MONOMETHYL ETHER	**Source**	: IUCLID
Log Po/w	: -0.064	DIPROPYLENE GLYCOL MONOMETHYL ETHER	**Source**	: IUCLID
	5.83	ETHYLCELLULOSE	**Source**	: Easi View

12.4. Mobility in soil

Henry Constant	: 1.6E-7 atm m3/mol	DIPROPYLENE GLYCOL MONOMETHYL ETHER	**Source**	: Supplier
	3.55E-11 atm m3/mol	ETHYLCELLULOSE	**Source**	: Easi View

12.5. Results of PBT and vPvB assessment

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

H411	Toxic to aquatic life with long lasting effects.

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	Chemical Abstracts Service
TGG = TWA	Time Weighted Average
LEL	Lower Explosive Limit
UEL	Upper Explosive Limit
NTP	National Toxicology Program
KHC	Known Human Carcinogen
RAHC	Reasonably Anticipated Human Carcinogen
IARC	International Agency for Research on Cancer
OSHA	Occupational Safety & Health Administration
ADR	Accord européen relatif au transport international des marchandises Dangereuses par Route
RID	Règlement concernant le transport international ferroviaire des marchandises dangereuses
UN	United Nations
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
EmS	Emergency Schedule

* Point to alterations with regard to the previous version.