

SAFETY DATA SHEET

According to EC 1907/2006 (REACH)

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Version number : 7.0

Last modifications in sections : 2 - 3

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

1.1. Product identifier

SDS : 24828
Supplier : POLYCHROMAL B.V.
 Postbus 8043
 1802 KA Alkmaar
 The Netherlands
 TEL:+31 72 5670799
 FAX:+31 72 5624095

Tradename : COPYCOLOUR BE05B

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

Flammable liquid	Category 3	H226
Serious eye irritation	Category 2	H319
Specific target organ toxicity — single exposure	Category 3	H336

2.2. Label elements

(EC) No 1272/2008

Hazard pictogram(s)



Signal word : Warning

Hazard statements

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ventilating/lighting equipment.
P243 Take precautionary measures against static discharge.
P261.2 Avoid breathing vapours.
P264 Wash hands/skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280.7 Wear protective gloves/eye protection/face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P337+P313 If eye irritation persists: Get medical advice/attention.
P403+P233+P235 Store in a well-ventilated place. Keep container tightly closed. Keep cool.
P405 Store locked up.
P501 Dispose of contents/container to a hazardous or special waste collection point.

Hazardous component(s) 1-METHOXY-2-PROPANOL

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
1-METHOXY-2-PROPANOL	107-98-2 203-539-1	603-064-00-3 01-2119457435-35	≥60.0	GHS02 GHS07 H226 Flam. liq. 3 H336 STOT SE 3
METHOXYPROPANOL, 2-	1589-47-5 216-455-5	603-106-00-0	<0.3	GHS02 GHS05 GHS07 GHS08 H226 Flam. liq. 3 H315 Skin irrit. 2 H318 Eye dam. 1 H335 STOT SE 3 H360D Repr. 1B
DIPROPYLENE GLYCOL MONOMETHYL ETHER	34590-94-8 252-104-2	01-2119450011-60 01-2119991100-47	≥10.0	
BUTOXYETHANOL, 2-	111-76-2 203-905-0	603-014-00-0 01-2119475108-36	<11.0	GHS06 H302 Acute tox. 4 H311 Acute tox. 3 H315 Skin irrit. 2 H319 Eye irrit. 2 H331 Acute tox. 3
DYE BLUE			<15.0	

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	local	: The substance is prickling: redness.
	general	: Degreasing: in case of sustained contact a rough, dry skin, eczema.
Ingestion	local	: The substance may be absorbed via the skin.
	general	: The substance is prickling: sore throat.
Inhalation	local	: The substance may be absorbed after ingestion.
	general	: The substance is with atomising prickling: sore throat.
Eyes	local	: The substance may be absorbed after inhalation.
	general	: The vapour is intoxicating: sleepiness, dizziness.
Remarks symptoms		: The substance is irritating: redness, pain.
		: The substance has an effect on: the liver, the kidneys, the central 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, sulphur oxides, copper 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.
Read label before use.

Emergency procedure

Risk of explosion! Acute risk to health! IMMEDIATELY evacuate and close off the danger zone. Notify expert!

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. Uncleaned empty packagings may contain inflammable and/or explosive mixtures.

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 : F1
15)

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, cool, dry, in a closed packaging, in a well ventilated area, away from ignition sources or heat sources.

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):	375 mg/m ³	S	1-METHOXY-2-PROPANOL	(Statutory threshold limit value)
TWA(15 minutes):	563 mg/m ³	S	1-METHOXY-2-PROPANOL	(Statutory threshold limit value)
TWA(8 hours):	19 mg/m ³		METHOXYPROPANOL, 2-	
TWA(8 hours):	300 mg/m ³		DIPROPYLENE GLYCOL MONOMETHYL ETHER	(Statutory threshold limit value)
TWA(8 hours):	100 mg/m ³	S	BUTOXYETHANOL, 2-	(Statutory threshold limit value)
TWA(15 minutes):	246 mg/m ³	S	BUTOXYETHANOL, 2-	(Statutory threshold limit value)
No TWA has been laid down.				
DYE BLUE				

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

TWA(8 hours):	375 mg/m ³	S	1-METHOXY-2-PROPANOL
TWA(15 minutes):	568 mg/m ³	S	1-METHOXY-2-PROPANOL
TWA(8 hours):	308 mg/m ³	S	DIPROPYLENE GLYCOL MONOMETHYL ETHER
TWA(8 hours):	98 mg/m ³	S	BUTOXYETHANOL, 2-
TWA(15 minutes):	246 mg/m ³	S	BUTOXYETHANOL, 2-

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

TWA(8 hours):	370 mg/m ³		1-METHOXY-2-PROPANOL
TWA(15 minutes):	740 mg/m ³		1-METHOXY-2-PROPANOL
TWA(8 hours):	19 mg/m ³	S	METHOXYPROPANOL, 2-
TWA(15 minutes):	152 mg/m ³	S	METHOXYPROPANOL, 2-
TWA(8 hours):	310 mg/m ³		DIPROPYLENE GLYCOL MONOMETHYL ETHER
TWA(8 hours):	49 mg/m ³	S	BUTOXYETHANOL, 2-
TWA(15 minutes):	196 mg/m ³	S	BUTOXYETHANOL, 2-
TWA(8 hours):	1 mg/m ³		DYE BLUE(as copper, inhalable dust)

applicable to: United States of America (25 °C; 1013 mbar)

TWA(8 hours):	184 mg/m ³		1-METHOXY-2-PROPANOL- [according to ACGIH]
TWA(15 minutes):	369 mg/m ³		1-METHOXY-2-PROPANOL- [according to ACGIH]
TWA(8 hours):	606 mg/m ³	S	DIPROPYLENE GLYCOL MONOMETHYL ETHER- [according to ACGIH]
TWA(15 minutes):	910 mg/m ³	S	DIPROPYLENE GLYCOL MONOMETHYL ETHER- [according to ACGIH]
TWA(8 hours):	600 mg/m ³	S	DIPROPYLENE GLYCOL MONOMETHYL ETHER- [according to OSHA]
TWA(8 hours):	98.5 mg/m ³		BUTOXYETHANOL, 2- [according to ACGIH]
TWA(8 hours):	240 mg/m ³	S	BUTOXYETHANOL, 2- [according to OSHA]

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

TWA(8 hours):	190 mg/m ³	S	1-METHOXY-2-PROPANOL
TWA(15 minutes):	568 mg/m ³	S	1-METHOXY-2-PROPANOL
TWA(15 minutes):	450 mg/m ³	C	DIPROPYLENE GLYCOL MONOMETHYL ETHER
TWA(8 hours):	300 mg/m ³	S	DIPROPYLENE GLYCOL MONOMETHYL ETHER
TWA(8 hours):	50 mg/m ³	S	BUTOXYETHANOL, 2-
TWA(15 minutes):	246 mg/m ³	S	BUTOXYETHANOL, 2-

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

TWA(8 hours):	360 mg/m ³		1-METHOXY-2-PROPANOL
TWA(15 minutes):	720 mg/m ³		1-METHOXY-2-PROPANOL
TWA(8 hours):	19 mg/m ³	S	METHOXYPROPANOL, 2-
TWA(15 minutes):	152 mg/m ³	S	METHOXYPROPANOL, 2-
TWA(8 hours):	300 mg/m ³		DIPROPYLENE GLYCOL MONOMETHYL ETHER
TWA(15 minutes):	300 mg/m ³		DIPROPYLENE GLYCOL MONOMETHYL ETHER
TWA(8 hours):	49 mg/m ³	S	BUTOXYETHANOL, 2-
TWA(15 minutes):	98 mg/m ³	S	BUTOXYETHANOL, 2-

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

TWA(8 hours):	600 mg/m ³	S	DIPROPYLENE GLYCOL MONOMETHYL ETHER
TWA(15 minutes):	900 mg/m ³	S	DIPROPYLENE GLYCOL MONOMETHYL ETHER

applicable to: European Union (20 °C; 1013 mbar)

TWA(8 hours):	375 mg/m ³	S	1-METHOXY-2-PROPANOL
TWA(15 minutes):	568 mg/m ³	S	1-METHOXY-2-PROPANOL
TWA(8 hours):	308 mg/m ³	S	DIPROPYLENE GLYCOL MONOMETHYL ETHER

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: liquid		
Colour	: blue		
Odour	: specific		
Odour threshold (20°C; 1013 mbar)	: 36.86 mg/m ³ 6160 mg/m ³ 0.491 mg/m ³	1-METHOXY-2-PROPANOL DIPROPYLENE GLYCOL MONOMETHYL ETHER BUTOXYETHANOL, 2-	
pH	: ≥4 - ≤9		
Melting point/range	: not traceable		
Boiling point/range	: >117 °C (1013 mbar)		
Flash point/range	: ≥21 °C - ≤55 °C		
Vapor rate/range	: not traceable		
Flammability (solid, gas)	: data not available		
Explosive limits	: LEL:≥1.1 vol.% - UEL:≤13.7 vol.%		
Vapour pressure	: ≤1.45 kPa (20 °C)		
Relative density	: ≥0.96 - ≤0.98 (water=1) (20 °C)		
Solubility in water	: partial		
Log Po/w	: -0.4 -0.064 0.81	1-METHOXY-2-PROPANOL DIPROPYLENE GLYCOL MONOMETHYL ETHER BUTOXYETHANOL, 2-	Source : Chemicalcards Source : IUCLID Method : OECD 107 Source : IUCLID
Autoignition temperature	: >205 °C		
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 charge	: not traceable
General	: Product is hygroscopic.

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, isocyanates, light metals, acids, alkaline solutions

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 g/kg (ORL-RAT)	1-METHOXY-2-PROPANOL	Source	: IUCLID
LD-50: 5.23 g/kg (ORL-RAT)	DIPROPYLENE GLYCOL MONOMETHYL ETHER	Source	: IUCLID
LD-50: 470 mg/kg (ORL-RAT)	BUTOXYETHANOL, 2-	Source	: IUCLID
LD-50: >2.0 g/kg (ORL-RAT)	DYE BLUE	Source	: Supplier
Acute dermal toxicity			
LD-50: 13 g/kg (SKN-RBT)	1-METHOXY-2-PROPANOL	Source	: IUCLID

LD-50: ≥13 - <14 g/kg (SKN-RBT)	DIPROPYLENE GLYCOL MONOMETHYL ETHER	Source	: IUCLID
LD-50: 220 mg/kg (SKN-RBT)	BUTOXYETHANOL, 2-	Source	: IUCLID
Acute inhalation toxicity			
LC-50: >6 mg/l/4H (IHL-RAT)	1-METHOXY-2-PROPANOL	Source	: IUCLID
LC-50: 2.216 mg/l/4H (IHL-RAT)	BUTOXYETHANOL, 2-	Source	: IUCLID
Ames test			
negative	1-METHOXY-2-PROPANOL	Source	: IUCLID

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	1-METHOXY-2-PROPANOL
NTP: no	IARC: no	OSHA: no	METHOXYPROPANOL, 2-
NTP: no	IARC: no	OSHA: no	DIPROPYLENE GLYCOL MONOMETHYL ETHER
NTP: no	IARC: 3	OSHA: no	BUTOXYETHANOL, 2-

Reproductive toxicity

The substance or mixture is not classified for reproductive toxicity.

Specific target organ toxicity-single exposure

May cause drowsiness or dizziness.

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.
Ingestion	general	:	The substance may be absorbed via the skin.
	local	:	The substance is prickling: sore throat.
Inhalation	general	:	The substance may be absorbed after ingestion.
	local	:	The substance is with atomising prickling: sore throat.
	general	:	The substance may be absorbed after inhalation.
Eyes		:	The vapour is intoxicating: sleepiness, dizziness.
	local	:	The substance is irritating: redness, pain.
Remarks symptoms		:	The substance has an effect on: the liver, the kidneys, the central nervous system.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

LC-50: ≥4600 - ≤10000 mg/l/96H (Fish)	1-METHOXY-2-PROPANOL	Source	: IUCLID
EC-50: >500 mg/l/48H (Daphnia)	1-METHOXY-2-PROPANOL	Source	: Chemicalcards
IC-50: >1000 mg/l/72H (Algae)	1-METHOXY-2-PROPANOL	Source	: Merck
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
EC-50: ≥600 - ≤1000 mg/l/48H (Daphnia)	BUTOXYETHANOL, 2-		
LC-50: 1250 mg/l/96H (Fish)	BUTOXYETHANOL, 2-	Source	: IUCLID

12.2. Persistence and degradability

Biological oxygen demand	: not traceable		
Chemical oxygen demand	: 0.0020 g/g	DIPROPYLENE GLYCOL MONOMETHYL ETHER	Source : IUCLID
	: 2.2 g/g	BUTOXYETHANOL, 2-	Source : IUCLID
Biological(5)/chemical oxygen demand ratio	: 0	1-METHOXY-2-PROPANOL	
Degradability	: readily	1-METHOXY-2-PROPANOL	Method : OECD 301E
	: readily	DIPROPYLENE GLYCOL MONOMETHYL ETHER	Source : IUCLID
			Source : Merck

12.3. Bioaccumulative potential

Bioconcentration factor (BCF)	: <2	1-METHOXY-2-PROPANOL	Source	: IUCLID
	<100	DIPROPYLENE GLYCOL MONOMETHYL ETHER	Source	: IUCLID
Log Po/w	: -0.4	1-METHOXY-2-PROPANOL	Source	: Chemicalcards
	-0.064	DIPROPYLENE GLYCOL MONOMETHYL ETHER	Source	: IUCLID
	0.81	BUTOXYETHANOL, 2-	Method	: OECD 107
			Source	: IUCLID

12.4. Mobility in soil

Henry Constant	: 1.38E-6 atm m3/mol	1-METHOXY-2-PROPANOL	Source	: Merck
	1.6E-7 atm m3/mol	DIPROPYLENE GLYCOL MONOMETHYL ETHER	Source	: Supplier

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. Uncleaned empty packagings may contain inflammable and/or explosive mixtures.

SECTION 14: Transport information

14.1. UN number

ADR/RID : 1210
 IMDG/IMO : 1210
 IATA/ICAO : 1210

14.2. UN proper shipping name

ADR/RID : PRINTING INK
 IMDG/IMO : PRINTING INK
 IATA/ICAO : PRINTING INK

14.3. Transport hazard class(es)

ADR/RID : 3 IMDG/IMO : 3 IATA/ICAO : 3

14.4. Packing group

ADR/RID : III IMDG/IMO : III IATA/ICAO : III

14.5. Environmental hazards

Marine pollutant : no

14.6. Special precautions for user

Hazard identification number (ADR/RID) : 30
 EmS (IMDG/IMO) : F-E, S-D

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

- Data not available.

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

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H311	Toxic in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H360D	May damage the unborn child.

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.

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.