

SAFETY DATA SHEET

According to EC 1907/2006 (REACH)

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Last modifications in sections : 2.1 - 2.2 - 3 - 5.2 - 8.1 - 9.1 - 11.1 - 12.1 - 12.2

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

1.1. Product identifier

SDS : 24997
Product code :
Supplier : POLYCHROMAL B.V.

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

Tradename : DURACOLOUR BLACK

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 : hazcom@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

Acute toxicity, oral	Category 4	H302
Acute toxicity, dermal	Category 3	H311
Skin irritation	Category 2	H315
Serious eye irritation	Category 2	H319
Acute toxicity, inhalation	Category 3	H331
* Hazardous to the aquatic environment - chronic	Category 3	H412

2.2. Label elements

(EC) No 1272/2008

Hazard pictogram(s)



Signal word : Danger !

Hazard statements

H302	Harmful if swallowed.
H311+H331	Toxic in contact with skin or if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
* H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P261.2	Avoid breathing vapours.
P264	Wash hands/skin thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
* P273	Avoid release to the environment.
P280.5	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTRE or doctor if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
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.
P311	Call a POISON CENTER or doctor/physician.
P321	Specific treatment.
P330	Rinse mouth.
P332+P313	If skin irritation occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P361+P364	Take off immediately all contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to a hazardous or special waste collection point.

Hazardous component(s) BUTOXYETHANOL, 2-
XANTHYLIUM DYE

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
BUTOXYETHANOL, 2-	111-76-2	603-014-00-0	≥90.0	GHS06
	203-905-0	01-2119475108-36		H302 Acute tox. 4
				H311 Acute tox. 3
				H315 Skin irrit. 2
				H319 Eye irrit. 2
			H331 Acute tox. 3	
* XANTHYLIUM DYE	97862-65-2	01-2120760870-52	≥1.0 - <10.0	GHS07
	308-114-5			GHS09
				H302 Acute tox. 4
				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	: Do not touch contaminated clothes with bare hands. Remove contaminated clothes immediately. Remove residue of the substance from the skin (f.i. rinse with plenty of water). In case of serious exposure bring victim as soon as possible to the hospital, in other cases call for a doctor.
Ingestion	: If the victim is conscious let him rinse the mouth with water. Do NOT let him drink. Bring victim as soon as possible to hospital.
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 irritating: redness, pain.

		: 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 irritating: sore throat, abdominal pain.
	general	: The substance may be absorbed after ingestion.
Inhalation	local	: The substance is with atomising irritating: sore throat, coughing.
	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 blood (haemolysis), the blood (anemia), 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, chromic oxides, sulphur 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.
- Take precautionary measures against static discharge.

Emergency procedure

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.

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.
Take precautionary measures against static discharge.

Local exhausting : Apply local exhaust.

**Storage code (on behalf of PGS : T1
15)**

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : See also any precautionary statements in section 2.2.
Store product away from ignition sources, dry, in a closed packaging, 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):	100 mg/m3	S	BUTOXYETHANOL, 2-	(Statutory threshold limit value)
TWA(15 minutes):	246 mg/m3	S	BUTOXYETHANOL, 2-	(Statutory threshold limit value)
*TWA(8 hours):	0.5 mg/m3		XANTHYLIUM DYE(as chromium)	(Statutory threshold limit value)
TWA(15 minutes):	1 mg/m3		XANTHYLIUM DYE(as chromium)	(Statutory threshold limit value)

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

TWA(8 hours):	98 mg/m3	S	BUTOXYETHANOL, 2-
TWA(15 minutes):	246 mg/m3	S	BUTOXYETHANOL, 2-
*TWA(8 hours):	0.5 mg/m3		XANTHYLIUM DYE(as chromium)

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

TWA(8 hours):	49 mg/m3	S	BUTOXYETHANOL, 2-
TWA(15 minutes):	196 mg/m3	S	BUTOXYETHANOL, 2-
*TWA(8 hours):	2 mg/m3		XANTHYLIUM DYE(as chromium, inhalable dust)

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

TWA(8 hours):	240 mg/m3	S	BUTOXYETHANOL, 2- [according to OSHA]
TWA(8 hours):	20 ppm		BUTOXYETHANOL, 2- [according to ACGIH]
*TWA(8 hours):	0.5 mg/m3		XANTHYLIUM DYE(as chromium) - [according to ACGIH]
*TWA(8 hours):	0.5 mg/m3		XANTHYLIUM DYE(as chromium) - [according to OSHA]

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

TWA(8 hours):	50 mg/m3	S	BUTOXYETHANOL, 2-
TWA(15 minutes):	246 mg/m3	S	BUTOXYETHANOL, 2-

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

TWA(8 hours):	49 mg/m3	S	BUTOXYETHANOL, 2-
TWA(15 minutes):	98 mg/m3	S	BUTOXYETHANOL, 2-
*TWA(8 hours):	0.5 mg/m3		XANTHYLIUM DYE(as chromium, inhalable dust)

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

TWA(8 hours):	98 mg/m3	S	BUTOXYETHANOL, 2-
TWA(15 minutes):	246 mg/m3	S	BUTOXYETHANOL, 2-

C=Ceiling; S=Skin

Remarks exposure limits :

none

DNEL (Derived No Effect Level)

Worker - Inhalation - Short term exposure - Systemic effects: 1091 mg/m3	BUTOXYETHANOL, 2-	Source	: ECHA
Worker - Inhalation - Short term exposure - Local effects: 246 mg/m3	BUTOXYETHANOL, 2-	Source	: ECHA
Worker - Dermal - Long term exposure - Systemic effects: 125 mg/kg bw/day	BUTOXYETHANOL, 2-	Source	: ECHA
Worker - Inhalation - Long term exposure - Systemic effects: 98 mg/m3	BUTOXYETHANOL, 2-	Source	: ECHA
Consumer - Dermal - Short term exposure - Systemic effects: 89 mg/kg bw/day	BUTOXYETHANOL, 2-	Source	: ECHA
Consumer - Inhalation - Short term exposure - Systemic effects: 426 mg/m3	BUTOXYETHANOL, 2-	Source	: ECHA
Consumer - Oral - Short term exposure - Systemic effects: 26.7 mg/kg bw/day	BUTOXYETHANOL, 2-	Source	: ECHA
Consumer - Inhalation - Short term exposure - Local effects: 147 mg/m3	BUTOXYETHANOL, 2-	Source	: ECHA
Consumer - Dermal - Long term exposure - Systemic effects: 75 mg/kg bw/day	BUTOXYETHANOL, 2-	Source	: ECHA
Consumer - Inhalation - Long term exposure - Systemic effects: 59 mg/m3	BUTOXYETHANOL, 2-	Source	: ECHA
Consumer - Oral - Long term exposure - Systemic effects: 6.3 mg/kg bw/day	BUTOXYETHANOL, 2-	Source	: ECHA
Worker - Dermal - Short term exposure - Systemic effects: 89 mg/kg bw/day	BUTOXYETHANOL, 2-	Source	: ECHA

PNEC (Predicted No Effect Concentration)

Fresh water: 8.8 mg/l	BUTOXYETHANOL, 2-	Source	: ECHA
Marine water: 0.88 mg/l	BUTOXYETHANOL, 2-	Source	: ECHA
Intermittent releases: 9.1 mg/l	BUTOXYETHANOL, 2-	Source	: ECHA
Fresh water sediment: 34.6 mg/kg	BUTOXYETHANOL, 2-	Source	: ECHA
Marine water sediment: 3.46 mg/kg	BUTOXYETHANOL, 2-	Source	: ECHA
Soil: 2.33 mg/kg	BUTOXYETHANOL, 2-	Source	: ECHA
Sewage Treatment Plant (STP): 463 mg/l	BUTOXYETHANOL, 2-	Source	: ECHA
Oral (food): 0.02 g/kg	BUTOXYETHANOL, 2-	Source	: ECHA

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	:	antistatic clothing antistatic footwear

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	liquid	
Colour	:	black	
Odour	:	specific	
Odour threshold (20°C; 1013 mbar)	:	0.491 mg/m3	BUTOXYETHANOL, 2-
pH	:	≥5 - ≤9	
Melting point/range	:	not traceable	
Boiling point/range	:	≥163 °C (1013 mbar)	
Flash point/range	:	>61 °C	
Vapor rate/range	:	not traceable	
Flammability (solid, gas)	:	data not available	
Explosive limits	:	LEL:≥1.1 vol.% - UEL:≤12.7 vol.%	
Vapour pressure	:	≤0.1 kPa (20 °C)	
Relative density	:	≥0.90 - ≤0.92 (water=1) (20 °C)	
Solubility in water	:	partial	
Log Po/w	:	0.81	BUTOXYETHANOL, 2- Method : OECD 107 Source : IUCLID
Autoignition temperature	:	>230 °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 chargement	:	yes

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

Avoid discharge of static electricity.

10.5. Incompatible materials

Hazardous reactions with	:	oxidizing substances, acids, alkaline solutions, by reaction with light metals releases hydrogen
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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: 470 mg/kg (ORL-RAT) BUTOXYETHANOL, 2- Source : IUCLID
 * LD-50: ≥526 mg/kg (ORL-RAT) XANTHYLIUM DYE Source : Supplier
 Harmful if swallowed.

Acute dermal toxicity

LD-50: 220 mg/kg (SKN-RBT) BUTOXYETHANOL, 2- Source : IUCLID
 Toxic in contact with skin.

Acute inhalation toxicity

LC-50: 2.216 mg/l/4H (IHL-RAT) BUTOXYETHANOL, 2- Source : IUCLID
 Toxic if inhaled.

Ames test

not traceable

Skin corrosion/irritation

Causes skin 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: 3 OSHA: no BUTOXYETHANOL, 2-
 * NTP: no IARC: 3 OSHA: no XANTHYLIUM DYE

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 irritating: redness, pain.
		:	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 irritating: sore throat, abdominal pain.
	general	:	The substance may be absorbed after ingestion.
Inhalation	local	:	The substance is with atomising irritating: sore throat, coughing.
	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 blood (haemolysis), the blood (anemia), the central nervous system.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

EC-50: ≥600 - ≤1000 mg/l/48H (Daphnia) BUTOXYETHANOL, 2-
 LC-50: 1250 mg/l/96H (Fish) BUTOXYETHANOL, 2- Source : IUCLID
 * LC-50: 1.45 mg/l/96H (Fish) XANTHYLIUM DYE Source : Supplier

12.2. Persistence and degradability

Biological oxygen demand : not traceable
Chemical oxygen demand : 2.2 g/g BUTOXYETHANOL, 2- Source : IUCLID
Biological/chemical oxygen demand ratio : not traceable
 * **Degradability** : not XANTHYLIUM DYE Source : Supplier

12.3. Bioaccumulative potential

Bioconcentration factor (BCF) : not traceable
Log Po/w : 0.81 BUTOXYETHANOL, 2- Method : OECD 107
 Source : IUCLID

12.4. Mobility in soil

Henry Constant : not traceable

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

ADR/RID : 2810
IMDG/IMO : 2810
IATA/ICAO : 2810

14.2. UN proper shipping name

ADR/RID : TOXIC LIQUID, ORGANIC, N.O.S.(BUTOXYETHANOL, 2-)
IMDG/IMO : TOXIC LIQUID, ORGANIC, N.O.S.(BUTOXYETHANOL, 2-)
IATA/ICAO : TOXIC LIQUID, ORGANIC, N.O.S.(BUTOXYETHANOL, 2-)

14.3. Transport hazard class(es)

ADR/RID : 6.1 IMDG/IMO : 6.1 IATA/ICAO : 6.1

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) : 60
EmS (IMDG/IMO) : F-A, S-A

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

H302 Harmful if swallowed.
H311 Toxic in contact with skin.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
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.

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.