

# SAFETY DATA SHEET

According to EC 1907/2006 (REACH)

Date last verification	: 2018-03-10
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Version number : 10.1

Last modifications in sections : 2.2

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

#### 1.1. Product identifier

SDS Prode Supp	uct code llier	: 24995 : : POLYCHROMAL B.V.
		Postbus 8043 1802 KA Alkmaar The Netherlands TEL:+31 72 5670799 FAX:+31 72 5624095
Trade	ename	: DURACOLOUR YELLOW
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	
Acute toxicity, dermal	
Skin irritation	

Category 4	H302
Category 3	H311
Category 2	H315
Category 2	H319
Category 3	H331

#### 2.2. Label elements

Serious eye irritation Acute toxicity, inhalation

(EC) No 1272/2008

Hazard pictogram(s)



Signal word : Danger !

Hazard state H302 H311+H3 H315 H319	Harmful if sw 31 Toxic in conta Causes skin	ict with skin or if inhaled.		
* Precaution	ary statements			
P261.2	Avoid breathi	ng vapours.		
P264	Wash hands/	skin thoroughly after handling.		
P270	Do not eat, d	rink or smoke when using this product.		
P271	Use only outo	loors or in a well-ventilated area.		
P280.5		ve gloves/protective clothing/eye protection/face protection.		
* P301+P3		VED: Call a POISON CENTRE or doctor if you feel unwell.		
P302+P3		Wash with plenty of soap and water.		
P304+P3		Remove person to fresh air and keep comfortable for breathing.		
P305+P3		Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.		
50.00	Continue rins	0		
P311		N CENTER or doctor/physician.		
P321	Specific treat			
P330	Rinse mouth.			
P332+P3		n occurs: Get medical advice/attention.		
P337+P3		n persists: Get medical advice/attention.		
P361+P3 P403+P2		ediately all contaminated clothing and wash it before reuse.		
P403+P2 P405		tore in a well-ventilated place. Keep container tightly closed. tore locked up.		
P501		up. Intents/container to a hazardous or special waste collection point.		
FJUT	Dispose of co			
Hazardous o	omponent(s) BUTC	DXYETHANOL, 2-		
Remarks on	labelling none			

# 2.3. Other hazards

If applicable: see section 6.1 and section 7.1.

Component	CAS-no. EC-no.	Index No. Registration no.	— Percentage(%)	Label	
BUTOXYETHANOL, 2-	<u>111-76-2</u> 203-905-0	603-014-00-0 01-2119475108-36	≥90.0	GHS06 H302 H311 H315 H319 H331	Acute tox. 4 Acute tox. 3 Skin irrit. 2 Eye irrit. 2 Acute tox. 3

DYE YELLOW

<10.0

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	: 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.

#### 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. 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 m	bar)	
TWA(8 hours): 100 mg/m3	S	BUTOXYETHANOL, 2-	(Statutory thre
TWA(15 minutes): 246 mg/m3	S	BUTOXYETHANOL, 2-	(Statutory three
TWA(8 hours): 0.5 mg/m3 TWA(15 minutes): 1 mg/m3		DYE YELLOW(as chromium)	(Statutory thre (Statutory thre
		DYE YELLOW(as chromium)	
applicable to: Belgium (20 °C; 10 TWA(8 hours): 98 mg/m3	13 mbar) S		
TWA(3 hours): 98 mg/m3	S	BUTOXYETHANOL, 2- BUTOXYETHANOL, 2-	
TWA(8 hours): 0.5 mg/m3	C	DYE YELLOW(as chromium)	
applicable to: Germany (20 °C; 1	013 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		DYE YELLOW(as chromium, inhalable dust)	
applicable to: United States of A	merica (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 TWA(8 hours): 0.5 mg/m3		DYE YELLOW(as chromium) - [according to ACGIH] DYE YELLOW(as chromium) - [according to OSHA]	
· · · · -	<b>1</b> 2 mala an)		
applicable to: Sweden (20 °C; 10 TWA(8 hours): 50 mg/m3	13 mbar) S	BUTOXYETHANOL, 2-	
TWA(0 hours): 246 mg/m3	S	BUTOXYETHANOL, 2-	
		2010/12/10/02,2	
applicable to: Switzerland (20 °C TWA(8 hours): 49 mg/m3	s iuis mbar) S	BUTOXYETHANOL, 2-	
TWA(15 minutes): 98 mg/m3	S	BUTOXYETHANOL, 2-	
TWA(8 hours): 0.5 mg/m3		DYE YELLOW(as chromium, inhalable dust)	
applicable to: European Union (2	20 °C: 1013 m	bar)	
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 expo	sure - System	ic effects: 1091 mg/m3	BUTOXYETHANOL, 2-
Worker - Inhalation - Short term expo			Source : ECHA BUTOXYETHANOL, 2-
		<b>U</b>	Source : ECHA BUTOXYETHANOL, 2-
Worker - Dermal - Long term exposu			Source : ECHA
Worker - Inhalation - Long term expo	sure - Systemi	c effects: 98 mg/m3	BUTOXYETHANOL, 2- Source : ECHA
Consumer - Dermal - Short term expo	osure - System	nic effects: 89 mg/kg bw/day	BUTOXYETHANOL, 2- Source : ECHA
Consumer - Inhalation - Short term ex	xposure - Syst	emic effects: 426 mg/m3	BUTOXYETHANOL, 2-
Consumer - Oral - Short term exposu	re - Systemic	effects: 26.7 mg/kg bw/day	Source : ECHA BUTOXYETHANOL, 2-
Consumer - Inhalation - Short term e			Source : ECHA BUTOXYETHANOL, 2-
		-	Source : ECHA
Consumer - Dermal - Long term expo	sure - System	iic effects: 75 mg/kg bw/day	BUTOXYETHANOL, 2- Source : ECHA
Consumer - Inhalation - Long term ex	posure - Syste	emic effects: 59 mg/m3	BUTOXYETHANOL, 2- Source : ECHA
Consumer - Oral - Long term exposu	re - Systemic e	effects: 6.3 mg/kg bw/day	BUTOXYETHANOL, 2- Source : ECHA
Worker - Dermal - Short term exposu	re - Systemic e	effects: 89 mg/kg bw/day	BUTOXYETHANOL, 2-
			Source : ECHA
PNEC (Predicted No Effect Concentration)			Courses 5000
Fresh water: 8.8 mg/l		BUTOXYETHANOL, 2- BUTOXYETHANOL, 2-	Source : ECHA Source : ECHA
Marine water: 0.88 mg/l Intermittent releases: 9.1 mg/l		BUTOXYETHANOL, 2- 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
Sowage Treatment Plant (STP): 463	ma/l	BUTOXYETHANOL, 2-	Source : ECHA

(Statutory threshold limit value) (Statutory threshold limit value) (Statutory threshold limit value) (Statutory threshold limit value)

#### 8.2. **Exposure controls**

#### Advised personal protection :

Oral (food): 0.02 g/kg

Sewage Treatment Plant (STP): 463 mg/l

Hands	:	butyl rubber gloves
		neoprene gloves
Breakthrough time	:	For information: consult the supplier of the gloves.
Eyes	:	acid goggles

BUTOXYETHANOL, 2-

BUTOXYETHANOL, 2-

: ECHA

: ECHA

Source

Source

Inhalation Skin none (when sufficient exhausting)

antistatic clothing

antistatic footwear

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

# 9.1. Information on basic physical and chemical properties

Physical state	: liquid	
Colour	: yellow	
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	: ≥0.92 - ≤0.94 (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

### 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) LD-50: >2.0 g/kg (ORL-RAT) Harmful if swallowed.	BUTOXYETHANOL, 2- DYE YELLOW	Source : IUCLID Source : Supplier
Acute dermal toxicity LD-50: 220 mg/kg (SKN-RBT) Toxic in contact with skin.	BUTOXYETHANOL, 2-	Source : IUCLID

LC-50: 2.216 mg/l/4H (IHL-RAT) 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: not traceable	IARC: 3	OSHA: not traceable	DYE YELLOW

#### 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.

: not traceable

#### Specific target organ toxicity-repeated exposure

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

#### Aspiration hazard

Symptoms

The substance or mixture is not classified for aspiration hazard.

Oymptoma		
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	i	: 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

Degradability

<b>Ecotoxicity</b> EC-50: ≥600 - ≤1000 mg/l/48H (Daphnia) LC-50: 1250 mg/l/96H (Fish) EC-50: >100 mg/l/48H (Daphnia)	BUTOXYETHANOL, 2- BUTOXYETHANOL, 2- DYE YELLOW	Source : IUCLID Source : Supplier
12.2. Persistence and degradability		
Biological oxygen demand: not traceableChemical oxygen demand: 2.2 g/gBiological/chemical oxygen: not traceabledemand ratio: 100 traceable	BUTOXYETHANOL, 2-	Source : IUCLID

# 12.3. Bioaccumulative potential

12.3. Bioaccumulative	e potential			
Bioconcentration factor (BCF)	: not traceable			
Log Po/w	: 0.81	BUTOXYETHANOL, 2-	Method Source	: OECD 107 : 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

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

: none

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

#### 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.