

SAFETY DATA SHEET

According to EC 1907/2006 (REACH)

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

Revision date : 2018-03-10 Publication date : 2008-08-07

Last modifications in sections: 2.2

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

1.1. Product identifier

SDS : 24993

Product code

Supplier : POLYCHROMAL B.V.

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

Tradename : DURACOLOUR CYAN

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

2.2. Label elements

(EC) No 1272/2008

Hazard pictogram(s)



Signal word : Danger !

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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.

* 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.

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-

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-	111-76-2 203-905-0	603-014-00-0 01-2119475108-36	≥90.0	GHS06 H302 Acute tox. 4 H311 Acute tox. 3 H315 Skin irrit. 2 H319 Eye irrit. 2 H331 Acute tox. 3
DYE BLUE			<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.

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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, 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.

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

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8.1. **Control parameters**

Exposure limits:

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

TWA(8 hours): 100 mg/m3 S BUTOXYETHANOL, 2-TWA(15 minutes): 246 mg/m3 S BUTOXYETHANOL, 2-No TWA has been laid down.

DYE BLUE

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

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

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

TWA(8 hours): 49 mg/m3 BUTOXYETHANOL 2-TWA(15 minutes): 196 mg/m3 S BUTOXYETHANOL, 2-

TWA(8 hours): 1 mg/m3 DYE BLUE(as copper, inhalable dust)

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

TWA(8 hours): 240 mg/m3 BUTOXYETHANOL, 2-- [according to OSHA] TWA(8 hours): 20 ppm BUTOXYETHANOL, 2-- [according to ACGIH]

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

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

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

TWA(8 hours): 49 mg/m3 BUTOXYETHANOL, 2-TWA(15 minutes): S 98 mg/m3 BUTOXYETHANOL, 2-

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

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

C=Ceiling; S=Skin

Remarks exposure limits:

DNEL (Derived No Effect Level)

Worker - Inhalation - Short term exposure - Systemic effects: 1091 mg/m3

Worker - Inhalation - Short term exposure - Local effects: 246 mg/m3

Worker - Dermal - Long term exposure - Systemic effects: 125 mg/kg bw/day

Worker - Inhalation - Long term exposure - Systemic effects: 98 mg/m3

Consumer - Dermal - Short term exposure - Systemic effects: 89 mg/kg bw/day

Consumer - Inhalation - Short term exposure - Systemic effects: 426 mg/m3

Consumer - Oral - Short term exposure - Systemic effects: 26.7 mg/kg bw/day

Consumer - Inhalation - Short term exposure - Local effects: 147 mg/m3

Consumer - Dermal - Long term exposure - Systemic effects: 75 mg/kg bw/day

Consumer - Inhalation - Long term exposure - Systemic effects: 59 mg/m3

Consumer - Oral - Long term exposure - Systemic effects: 6.3 mg/kg bw/day

Worker - Dermal - Short term exposure - Systemic effects: 89 mg/kg bw/day

PNEC (Predicted No Effect Concentration)

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

8.2. **Exposure controls**

Advised personal protection:

Hands butyl rubber gloves

neoprene gloves

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

Eyes acid goggles

none (when sufficient exhausting) Inhalation

Skin antistatic clothing antistatic footwear (Statutory threshold limit value) (Statutory threshold limit value)

BUTOXYETHANOL, 2-Source BUTOXYETHANOL, 2-Source BUTOXYETHANOL 2-Source BUTOXYETHANOL, 2-ÉCHA Source BUTOXYETHANOL, 2-ECHA Source BUTOXYETHANOL, 2-FCHA Source BUTOXYETHANOL, 2-ECHA Source BUTOXYETHANOL, 2-Source : ECH BUTOXYETHANOL, 2-ECHA Source BUTOXYETHANOL 2-Source BUTOXYETHANOL, 2-Source : ECHA BUTOXYETHANOL, 2-: ECHA Source

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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) : 0.491 mg/m3 BUTOXYETHANOL, 2-

pH : ≥5 - ≤9 Melting point/range : not traceable Boiling point/range : ≥163 $^{\circ}$ C (1013 mbar) Flash point/range : >61 $^{\circ}$ C

Vapor rate/range : not traceable Flammability (solid, gas) : data not available

Explosive limits : LEL:≥1.1 vol.% - UEL:≤12.7 vol.%

Vapour pressure : \le 0.1 kPa (20 °C)

Relative density : $\geq 0.90 - \leq 0.92$ (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

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: >2.0 g/kg (ORL-RAT)
 DYE BLUE
 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.

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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-

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.

Source

: IUCLID

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-

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 traceable

12.3. Bioaccumulative potential

Bioconcentration factor : not traceable

(BCF)

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

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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.

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

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KHC Known Human Carcinogen

RAHC Reasonably Anticipated Human Carcinogen **IARC** International Agency for Research on Cancer **OSHA** Occupational Safety & Health Administration

ADR Accord européen rélatif 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 International Air Transport Association IATA **ICAO** International Civil Aviation Organization

EmS **Emergency Schedule**

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^{*} 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.