SAFETY DATA SHEET

According to EC 1907/2006 (REACH)

Date last verification : 2017-05-29
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Publication date : 2001-01-25

Version number : 6.0

Last modifications in sections : 2 - 3

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

1.1. Product identifier

SDS : 16776
Supplier : POLYCHROMAL B.V.

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

Tradename : DURACLEAN

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

General description : SOLVENT
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 2747588
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
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.
H336	May cause drowsiness or dizziness.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241	Use explosion-proof electrical/ventilating/lighting equipment.
P261.2	Avoid breathing vapours.
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.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
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	≥98.0	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

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	:	The substance may be absorbed via the skin.
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.
		:	The vapour is intoxicating: sleepiness, dizziness.
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

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 15) : F1

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 well ventilated area, in a closed packaging, away from ignition sources or heatsources.

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 ºC; 1013 mbar)**			
TWA(8 hours):	375 mg/m3	S	1-METHOXY-2-PROPANOL	(Statutory threshold limit value)
TWA(15 minutes):	563 mg/m3	S	1-METHOXY-2-PROPANOL	(Statutory threshold limit value)
TWA(8 hours):	19 mg/m3		METHOXYPROPANOL, 2-	
applicable to:	**Belgium (20 ºC; 1013 mbar)**			
TWA(8 hours):	375 mg/m3	S	1-METHOXY-2-PROPANOL	
TWA(15 minutes):	568 mg/m3	S	1-METHOXY-2-PROPANOL	
applicable to:	**Germany (20 ºC; 1013 mbar)**			
TWA(8 hours):	370 mg/m3		1-METHOXY-2-PROPANOL	

TWA(15 minutes):	740 mg/m3		1-METHOXY-2-PROPANOL
TWA(8 hours):	19 mg/m3	S	METHOXYPROPANOL, 2-
TWA(15 minutes):	152 mg/m3	S	METHOXYPROPANOL, 2-

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

TWA(8 hours):	184 mg/m3		1-METHOXY-2-PROPANOL- [according to ACGIH]
TWA(15 minutes):	369 mg/m3		1-METHOXY-2-PROPANOL- [according to ACGIH]

applicable to: Sweden (20 ºC; 1013 mbar)

TWA(8 hours):	190 mg/m3	S	1-METHOXY-2-PROPANOL
TWA(15 minutes):	568 mg/m3	S	1-METHOXY-2-PROPANOL

applicable to: Switzerland (20 ºC; 1013 mbar)

TWA(8 hours):	360 mg/m3		1-METHOXY-2-PROPANOL
TWA(15 minutes):	720 mg/m3		1-METHOXY-2-PROPANOL
TWA(8 hours):	19 mg/m3	S	METHOXYPROPANOL, 2-
TWA(15 minutes):	152 mg/m3	S	METHOXYPROPANOL, 2-

applicable to: European Union (20 ºC; 1013 mbar)

TWA(8 hours):	375 mg/m3	S	1-METHOXY-2-PROPANOL
TWA(15 minutes):	568 mg/m3	S	1-METHOXY-2-PROPANOL

C=Ceiling; S=Skin

Remarks exposure limits :

none

DNEL (Derived No Effect Level)

Worker - Inhalation - Short term exposure - Local effects: 553.5 mg/m3	1-METHOXY-2-PROPANOL	**Source** : ECHA
Worker - Inhalation - Long term exposure - Systemic effects: 369 mg/m3	1-METHOXY-2-PROPANOL	**Source** : ECHA
Worker - Dermal - Long term exposure - Systemic effects: 183 mg/kg bw/day	1-METHOXY-2-PROPANOL	**Source** : ECHA
Consumer - Inhalation - Long term exposure - Systemic effects: 43.9 mg/m3	1-METHOXY-2-PROPANOL	**Source** : ECHA
Consumer - Dermal - Long term exposure - Systemic effects: 78 mg/kg bw/day	1-METHOXY-2-PROPANOL	**Source** : ECHA
Consumer - Oral - Long term exposure - Systemic effects: 33 mg/kg bw/day	1-METHOXY-2-PROPANOL	**Source** : ECHA

PNEC (Predicted No Effect Concentration)

Fresh water: 10 mg/l	1-METHOXY-2-PROPANOL	**Source** : ECHA
Intermittent releases: 100 mg/l	1-METHOXY-2-PROPANOL	**Source** : ECHA
Marine water: 1 mg/l	1-METHOXY-2-PROPANOL	**Source** : ECHA
Fresh water sediment: 52.3 mg/kg	1-METHOXY-2-PROPANOL	**Source** : ECHA
Marine water sediment: 5.2 mg/kg	1-METHOXY-2-PROPANOL	**Source** : ECHA
Soil: 4.59 mg/kg	1-METHOXY-2-PROPANOL	**Source** : ECHA
Sewage Treatment Plant (STP): 100 mg/l	1-METHOXY-2-PROPANOL	**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	:	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	: transparent		
Odour	: ether-like		
Odour threshold (20ºC; 1013 mbar)	: 36.86 mg/m3	1-METHOXY-2-PROPANOL	
pH	: ≥4 - ≤7		
Melting point/range	: ≥-97 ºC - ≤-95 ºC		
Boiling point/range	: ≥117 ºC - ≤125 ºC (1013 mbar)		
Flash point/range	: ≥30 ºC - ≤35 ºC		
Vapor rate/range	: 0.7 (BuAc=1)		
Flammability (solid, gas)	: data not available		
Explosive limits	: LEL:≥1.5 vol.% - UEL:≤13.7 vol.%		
Vapour pressure	: ≥1.15 - ≤1.45 kPa (20 ºC)		
Relative density	: ≥0.917 - ≤0.930 (water=1) (20 ºC)		
Solubility in water	: complete		
Log Po/w	: -0.4	1-METHOXY-2-PROPANOL	**Source** : Chemicalcards
Autoignition temperature	: ≥270 ºC - ≤290 ºC		
Decomposition temperature	: not traceable		
Viscosity	: ≥1.7 - ≤3.8 mPa.s (20 ºC)		

Dust explosions possible in air : not applicable
Oxidising properties : no

9.2. Other information

Solubility in fat : not traceable
Electrostatic chargement : no (30.E6 pS/m)
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 : In contact with air peroxides can be formed.

10.4. Conditions to avoid

Data not available.

10.5. Incompatible materials

Hazardous reactions with : oxidizing substances, strong acids, strong alkaline solutions, aluminium

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

Acute dermal toxicity
LD-50: 13 g/kg (SKN-RBT) 1-METHOXY-2-PROPANOL **Source** : IUCLID

Acute inhalation toxicity
LC-50: >6 mg/l/4H (IHL-RAT) 1-METHOXY-2-PROPANOL **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
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	1-METHOXY-2-PROPANOL
NTP: no	IARC: no	OSHA: no	METHOXYPROPANOL, 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.
	general	:	The substance may be absorbed via the skin.
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.
		:	The vapour is intoxicating: sleepiness, dizziness.
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: ≥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

12.2. Persistence and degradability

Biological oxygen demand	: not traceable			
Chemical oxygen demand	: not traceable			
Biological(5)/chemical oxygen demand ratio	: 0	1-METHOXY-2-PROPANOL		
Degradability	: readily	1-METHOXY-2-PROPANOL	**Method**	: OECD 301E
			Source	: IUCLID

12.3. Bioaccumulative potential

Bioconcentration factor (BCF)	: <2	1-METHOXY-2-PROPANOL	**Source**	: IUCLID
Log Po/w	: -0.4	1-METHOXY-2-PROPANOL	**Source**	: Chemicalcards

12.4. Mobility in soil

Henry Constant	: 1.38E-6 atm m3/mol	1-METHOXY-2-PROPANOL	**Source**	: Merck

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	: 3092
IMDG/IMO	: 3092
IATA/ICAO	: 3092

14.2. UN proper shipping name

ADR/RID	: 1-METHOXY-2-PROPANOL
IMDG/IMO	: 1-METHOXY-2-PROPANOL
IATA/ICAO	: 1-METHOXY-2-PROPANOL

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

- The component(s), as mentioned in section 3, are registered in the Toxic Substances Control Act Inventory (TSCA-USA).

15.2. Chemical safety assessment

- An extended Safety Data Sheet (eSDS) is available.

SECTION 16: Other information

Remarks on SDS : none

Overview relevant H-sentences from all components in section 3

H226	Flammable liquid and vapour.
H315	Causes skin irritation.
H318	Causes serious eye damage.
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.