

Safety Data Sheet according to Regulation (EC) No 830/2015

Date of Compilation/Revision: 12.09.2014./15.08.2017.

SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifiers: Media Ink

Type of substance: CLP Mixture

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

Ink for hobby purposes of adults

1.3 Details of the supplier of the safety data sheet:

Pentacolor Ltd.

1103 Budapest, Gyömrői út 86.

tel.: +36-1-260-7477

fax: +36-1-262-1345

e-mail: info@pentacolor.hu

For product safety information please contact: info@pentacolor.hu

1.4 Emergency telephone number:

Egészségügyi Toxikológiai Tájékoztató Szolgálat

Address: 1096, Budapest, Nagyvárad tér 2., Hungary

tel: 06/80/20 11 99 (green number), 06/1/ 476 64 64 (during working hours)

SECTION 2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture: Classification according to Regulation (EC) No 1272/2008

Flammable Liquid- Category 2

H225 Highly flammable liquid and vapour

Eye Irritation - Category 2

H319 Causes serious eye irritation

STOT SE 3

H335 May cause respiratory irritation

2.2. Label elements:

Labelling according to Regulation (EC) No 1272/2008

Contains: ethanol, isobutyl methyl ketone, 2-(propyloxy)ethanol

Hazard pictograms:



Signal Word: Danger

Hazard Statements:

H225 Highly flammable liquid and vapour

H319 Causes serious eye irritation

H335 May cause respiratory irritation

EUH066 Repeated exposure may cause skin dryness or cracking

Precautionary Statements

P102 Keep out of reach of children

P210 Keep away from heat/sparks/open flames/hot surfaces – No smoking

P243 Take precautionary measures against static discharge

P261 Avoid breathing dust/fume/gas/mist/vapours/spray

P304+340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

P305+P351+P338 IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing

2.3 Other hazards:

The ingredients are not PBR or vPvB substances.

Vapours may form explosive mixtures with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixture:**

Ethanol solution with nonhazardous additions. (Resin, Mica, Solvent dyes) The details below includes all impurities and by-products that contribute to the product classification or that have an occupational exposure limits.

Hazardous Substance(s): ethanol

concentration: 40-65%

EC-No.: 200-578-6

CAS-No.: 64-17-5

Index-No. : 603-002-00-5

Classification according to Regulation (EC) No 1272/2008 : Flam. Liq. 2 H225, Eye Irrit. 2 H319

Hazardous Substance(s): Isobutyl methyl ketone

concentration: 10- 30%

EC-No.: 203-550-1

CAS-No.: 108-10-1

Index-No. : 606-004-00-4

Classification according to Regulation (EC) No 1272/2008 : Flam Fam Liq. 2 H225, Acute Tox. 4 H332, Eye Irrit. 2 H319, STOT SE 3 H335, EUH066

Registration number : 01-2119473980-30

Hazardous Substance(s): 2-(propyloxy)ethanol

concentration: 0-12%

EC-No.: 220-548-6

CAS-No.: 2807-30-9

Index-No. : 603-095-00-2

Classification according to Regulation (EC) No 1272/2008 : Flam. Liq. 3 H226, Acute Tox. 4 * H312, Eye Irrit. 2 H319

Hazardous Substance(s): isopropyl alcohol

concentration: 1-2%

EC-No.: 200-661-7

CAS-No.: 67-63-0

Index-No. : 603-117-00-0

Classification according to Regulation (EC) No 1272/2008 : Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336

Refer to Section 16 for full details of the risk phrases, hazard statements and Notas.

SECTION 4. FIRST AID MEASURES**4.1 Description of necessary first-aid measures:**

In event of emergency assess the danger before taking action. Do not put yourself at risk of injury. If in doubt, contact emergency.

INHALATION

If breathed in, move person into fresh air. In the event of loss of consciousness, the injured person must be affixed in a stable position, in case of complaints seek medical advice

SKIN CONTACT

Wash off with soap and plenty of water. Take off immediately all contaminated clothing. In case of symptoms consult a doctor.

INGESTION

After accidentally ingestion of the substance, rinse the mouth thoroughly.

Never give anything by mouth to an unconscious person. In case of symptoms consult a doctor.

EYE CONTACT

Rinse thoroughly with plenty of water for at least 15 minutes. In case of symptoms consult a doctor.

4.2 Most important symptoms and effects, both acute and delayed:

High concentrations may cause narcotic effect. In case of unconsciousness consult a doctor.

Causes serious eye irritation

See Section 11 for more detailed information on health effects and symptoms.

4.3 Indication of immediate medical attention and special treatment needed:

Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES**5.1 Extinguishing media****Suitable extinguishing media**

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Not to be used : High power water jet.

5.2 Special hazards arising from the substance or mixture

Carbon dioxide, carbon monoxide

5.3 Advice for firefighters

Wear self-contained breathing apparatus and protective clothing. .

Vapours form explosive mixtures with air.

Use water spray to cool unopened containers.

SECTION 6. ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation. Stop the spillage if safe to do

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Remove all sources of ignition. Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For personal protection see section 8.

For disposal see section 13.

SECTION 7. HANDLING AND STORAGE**7.1 Precautions for safe handling**

Avoid contact with skin and eyes. Provide good ventilation of working area.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge. Keep out of reach of children. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep out of reach of children. Keep away from food, drink and animal feedingstuffs.

7.3 Specific end uses

See section 1.2

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

Ethyl alcohol: 500 ml/m³, 960 mg/m³ (TRGS 900), 1000 ppm TWA

Isopropyl alcohol: 200 ml/m³, 500 mg/m³ (TRGS 900)

Isobutyl methyl ketone 208 mg/m³ (50 ppm) TWA, 416 mg/m³ (100 ppm) STEL

2-(propyloxy)ethanol: 25 ppm TWA, 20 ml/m³, 86 mg/m³ (TRGS 900)

DNEL values:

Component	Use	Exposure route	Exposure frequency	Value
Isobutyl methyl ketone	Worker	inhalation	acute	208 mg/m ³ /15 min.
	Worker	skin	chronic	11,8 mg/kg/day
	Worker	inhalation	chronic and local	83 mg/m ³
	Consumer	inhalation	acute and local	155,2 mg/m ³
	Consumer	skin	chronic	4,2 mg/kg/day
	Consumer	inhalation	chronic and local	14,7 mg/m ³
	Consumer	oral	chronic	4,2 mg/kg/day
2-(propiloxi)ethanol	Worker	dermal	long term (repeated)	3,4 mg/kg/day
	Worker	inhalation	long term (repeated)	36 mg/m ³
	Consumer	dermal	long term (repeated)	2,2 mg/kg/nap
	Consumer	inhalation	long term (repeated)	7,7 mg/m ³
	Consumer	oral	long term (repeated)	2,2 mg/kg/nap

PNEC values:

Isobutyl methyl ketone

Fresh water: 0,6 mg/l

Sea-water: 0,06 mg/l

STP: 10 mg/l

Freshwater sediment: 8,27 mg/kg

Marine sediment: 0,83 mg/kg

Soil: 1,3 mg/kg

2-(propiloxi)ethanol

Fresh water: 0,1 mg/l

Sea-water: 0,01 mg/l

STP: 10 mg/l

Freshwater desiment: 0,594 mg/kg (dry)

Marine sediment: 0,0594 mg/kg (dry)

Soil: 0,0602 mg/kg (dry)

8.2 Exposure controls

Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. When using do not eat, drink or smoke.

Personal protective equipment

Eye/face protection

Wear eye/face protection such as chemical splash proof goggles or face shield. (EN 166)

Skin protection

Wear chemical-resistant gloves. nitrile rubber, butyl rubber. Breakthrough time > 480 minute.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time. The selection of the suitable gloves does not only depend on the material, Account should be taken of the use of the product during special circumstances, eg. cuts, abrasions risk and the fact, that the breakthrough time established during the tests may be considerably shorter due to several factors. (eg. temperature)

Body Protection

Impervious clothing, Flame retardant antistatic protective clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

If there is a risk of inhalation use an organic vapor filter (EN 141)

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

- a) Appearance Form: liquid
Colour: according to specification
- b) Odour: pungent
- c) Odour Threshold: no data available
- d) pH: 5
- e) Melting point/freezing point Melting point/range: no data available
- f) Initial boiling point and boiling range: no data available
- g) Flash point: ethanol: 9.7 - 13 C (101.3 - 101.325 kPa, ECHA), isobutyl methyl ketone 14 C, (DIN 51755)
- h) Evaporation rate: no data available
- i) Flammability (solid, gas): not applicable (liquid)
- j) Upper/lower flammability or explosive limits
Upper explosion limit: no data available
Lower explosion limit: no data available
- k) Vapour pressure: no data available
- l) Vapour density: no data available
- m) Relative density: 0,89 g/cm³
- n) Water solubility: insoluble
- o) Partition coefficient: noctanol/water no data available
- p) Autoignition temperature: no data available
- q) Decomposition temperature: no data available
- r) Viscosity: no data available
- s) Explosive properties: no data available
- t) Oxidizing properties: no data available

9.2 Other safety information

No data available

SECTION 10. STABILITY AND REACTIVITY**10.1 Reactivity**

Vapours form explosive mixtures with air.

10.2 Chemical stability

Stable when applying the recommended regulations for storage and handling.

10.3 Possibility of hazardous reactions

Ethanol: In presence of strong oxidizing agents increased danger of explosion and fire.

Methyl isobutyl ketone can form explosive peroxides.

10.4 Conditions to avoid

Heat, flames and sparks. Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide.

SECTION 11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

There are no data available on the preparation itself.

- (a) acute toxicity: Based on available data, the classification criteria are not met
- (b) skin corrosion/irritation: Based on available data, the classification criteria are not met
- (c) serious eye damage/irritation: Causes serious eye irritation
- (d) respiratory or skin sensitisation: Based on available data, the classification criteria are not met
- (e) germ cell mutagenicity: Based on available data, the classification criteria are not met
- (f) carcinogenicity: Based on available data, the classification criteria are not met
- (g) reproductive toxicity: Based on available data, the classification criteria are not met
- (h) STOT-single exposure: May cause respiratory irritation.
- (i) STOT-repeated exposure: Based on available data, the classification criteria are not met
- (j) aspiration hazard: Based on available data, the classification criteria are not met

Components:**Ethanol:****Acute toxicity**

LD50 Oral - rat - 3450 mg/kg

Ethanol: poisoning symptoms: dizziness, double vision, nausea

LC50 Inhalation - rat - 10 h - 20000 ppm

LD50 Oral – mouse – 7060 mg/kg

isopropyl alcohol

LD50 Oral rat-h >2000 mg/kg

LD50 Dermal rabbit – h: >2000 mg/kg

isobutyl methyl ketone

LD50 Oral - rat - > 2000 mg/kg

LD50 Dermal – rat - > 2000 mg/kg

LC50 Inhalation – rat - > 2-20 mg/l, 4 h

2-(propiloxy)ethanol

LD50 Oral –rat -: 3089 mg/kg.

LD50 Oral- mouse -: 1774 mg/kg.

LC50 Inhalation – rat – 6 h - > 2132 ppm (highest available concentration)

LD50 Dermal/hour/rabbit - 1337 mg/kg

Skin corrosion/irritation

Ethanol: mild irritation,

2-(propiloxy)ethanol: no data,

isobutyl methyl ketone: Mild irritating effect. (rabbit)

Serious eye damage/eye irritation

Ethanol: strong irritation (rabbit),

2-(propiloxy)ethanol: strong irritation (rabbit)

isobutyl methyl ketone: Irritating effect. (rabbit)

isopropyl alcohol: not irritating

Respiratory or skin sensitization

No sensitizing effects known.

Germ cell mutagenicity

Ethanol: genetic changes can occur.

2-(propiloxy)ethanol: no data

isobutyl methyl ketone: non mutagen

Carcinogenicity

Ethanol: no data

2-(propiloxy)ethanol: no data.

isobutyl methyl ketone: no data.

isopropyl alcohol: not carcinogenic

Reproductive toxicity

Ethanol: the consumption of ethanol during pregnancy can affect the unborn child, resulting in spontaneous miscarriage, birth defects, or developmental problems may result.

2-(propiloxy)ethanol: no data

isobutyl methyl ketone: no data.

Specific target organ toxicity - single exposure

Ethanol: the substance irritates the eyes and respiratory system, high concentration of steam inhalation may cause irritation to the eyes and respiratory tract, effects on the central nervous system.

2-(propiloxy)ethanol- no data

isobutyl methyl keton: no data

Specific target organ toxicity - repeated exposure

Ethanol: no data

2-(propiloxy)etanol- no data

isobutyl methyl keton: no data

Aspiration hazard

no data available

Potential health effects

Ethanol: chronic ingestion may cause a cirrhosis of the liver, effect on the nervous system and affects the glands function

Isopropyl alcohol: May affect the upper respiratory tract and the central nervous system

SECTION 12. ECOLOGICAL INFORMATION

12.1 Toxicity

There are no data available on the preparation itself.

Components:

Ethanol : LC50: 9000 mg/l 24h

2-(propyloxy)ethanol

Acute Aquatic Effects Data:

96 h LC-50 (fathead minnow): > 91.3 mg/l NOEC: 91.3 mg/l

96 h LC-50 (daphnia): > 91.3 mg/l NOEC: 91.3 mg/l

96 h LC-50 (flatworm): > 91.3 mg/l NOEC: 91.3 mg/l

Isobutyl methyl ketone

Pimephales promelas: >100 mg/l; 96 óra (literature data)

Daphnia EC50 Daphnia magna and other aquatic invertebrates: >100 mg/l; 48 óra (literature data)

Algae EC50 Desmodesmus subspicatus: >100 mg/l; (literature data)

12.2 Persistence and degradability

Components:

ethanol: immediately biodegradable

Isobutyl methyl ketone: > 70 %, 7 days OECD 301 E

2-(propiloxy)etanol- no data

12.3 Bioaccumulative potential

Components:

ethanol: no data available

12.4 Mobility in soil

no data available

12.5 Results of PBT and vPvB assessment

The ingredients are not PBR or vPvB substances.

12.6 Other adverse effects

no data available

General notes:

Water hazard class 1 (German Regulation) (Self-assessment): less hazardous for water

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product

Discharge, treatment, or disposal may be subject to national, state, or local laws. Incinerate. Since emptied containers retain product residue, follow label warnings even after container is emptied.

Contaminated packaging

Dispose of as unused product.

SECTION 14. TRANSPORT INFORMATION

14.1 UN number 1263

14.2 UN proper shipping name PAINT

14.3 Transport hazard class(es) 3



Label(s): 3
 Road Tunnel Restrictions: D/E
 Transport category (1.1.3.6.): 2 (max. 333 L)
 Limited Quantity (LQ): 5 L

14.4 Packing group II

14.5 Environmental hazards No

14.6 Special precautions for user Flammable Liquid.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable to the product being shipped.

SECTION 15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

According to the local regulation.

15.2 Chemical Safety Assessment

Chemical safety assessment has not been carried out.

SECTION 16. OTHER INFORMATION

Data Sources:

The previously-classified hazardous materials list
 Internet database of chemical substances
 Safety data sheets of components

The classification was prepared according to the 1272/2008/EK Regulation:

Flam. Liq. 2 H225 Based on the component data
 Eye Irrit. 2 H319 based on calculation method
 STOT SE 3 H335 based on calculation method

LIST OF RELEVANT H-PHRASES IN SECTION 3

Hazard Statements:

H225 Highly flammable liquid and vapour
 H226 Flammable liquid and vapour
 H312 Harmful in contact with skin
 H319 Causes serious eye irritation
 H332 Harmful if inhaled
 H335 May cause respiratory irritation
 H336 May cause drowsiness or dizziness
 EUH066 Repeated exposure may cause skin dryness or cracking

Changes from the previous version: Item 2-16.

Abbreviations:

Flam. Liq. 2 Flammable Liquid- Category 2
 Eye Irrit. 2 Eye Irritation-Category 2
 STOT SE 3 Specific Target Organ Toxicity (single exposure), Category 3

EK / EU European community/European union
 EGK European Economic Community
 DNEL Derived No Effect Level

PNEC Predicted No Effect Concentration

CLP Regulation on Classification, Labelling and Packaging of Substances and Mixtures /

CAS Chemical Abstracts Service

UN / ENSZ United Nations

ADN Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route

RID Règlement international concernant le transport des marchandises dangereuses par chemin de fer

IMDG International Maritime Code for Dangerous Goods

MARPOL International Convention for the Prevention of Pollution From Ships

IBC Intermediate Bulk Container

IATA International Air Transport Association

ICAO International Civil Aviation Organization

PBT Persistent, Bioaccumulative, Toxic

vPvB very Persistent, very Bioaccumulative

This product Safety Data Sheet provides health, safety, and regulatory information. The information contained in this Safety Data Sheet is based on data available to us at the date of issue, and is provided in good faith, and believed to be accurate and reliable at the date of issue, however, no warranty, express or implied is provided. The product is to be used in applications consistent. For any other uses, exposures should be evaluated so that the appropriate handling practices and training programs can be established to ensure safe working conditions and operations. It is the buyer's/user's responsibility to satisfy itself that the product is suitable for the intended use, and to ensure that its activities comply with all federal, state, provincial, or local laws and regulations. Regulatory requirements are subject to change and may differ between European Member States and Nations. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information.