

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

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

### **1.1 Product identifiers: Media Ink Diluent**

Type of substance: CLP Mixture

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

Diluent for Media 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](mailto:info@pentacolor.hu)

For product safety information please contact: [info@pentacolor.hu](mailto: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

Eye Irritation - Category 2

STOT SE 3

H225 Highly flammable liquid and vapour

H319 Causes serious eye irritation

H335 May cause respiratory irritation

### **2.2. Label elements:**

#### **Labelling according to Regulation (EC) No 1272/2008**

Contains: ethanol, isobutyl methyl ketone

#### **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:**

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: 60-75%

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: 25- 40%

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): 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 the case of complaints get medical attention.

**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..

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

**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**

Use personal protective equipment recommended in 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 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/m<sup>3</sup>, 960 mg/m<sup>3</sup> (TRGS 900), 1000 ppm TWA

Isopropyl alcohol: 200 ml/m<sup>3</sup>, 500 mg/m<sup>3</sup> (TRGS 900)

Isobutyl methyl ketone 208 mg/m<sup>3</sup> (50 ppm) TWA, 416 mg/m<sup>3</sup> (100 ppm) STEL

**DNEL values:**

<b>Component</b>	<b>Use</b>	<b>Exposure route</b>	<b>Exposure frequency</b>	<b>Value</b>
Isobutyl methyl ketone	Worker	inhalation	acute	208 mg/m <sup>3</sup> /15 min.
	Worker	skin	chronic	11,8 mg/kg/day
	Worker	inhalation	chronic and local	83 mg/m <sup>3</sup>
	Consumer	inhalation	acute and local	155,2 mg/m <sup>3</sup>
	Consumer	skin	chronic	4,2 mg/kg/day
	Consumer	inhalation	chronic and local	14,7 mg/m <sup>3</sup>
	Consumer	oral	chronic	4,2 mg/kg/day

**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

**8.2 Exposure controls**

**Appropriate engineering controls**

Handle in accordance with good industrial hygiene and safety practice. Ensure adequate ventilation. 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) (EN 374)

**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)

**Environmental exposure controls:**

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

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

a) Appearance Form: liquid

Colour: colourless

b) Odour: pungent

c) Odour Threshold: not determined

d) pH: ca. 5

e) Melting point/freezing point Melting point/range: no data available

f) Initial boiling point and boiling range: not determined

- 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: not determined
- m) Relative density: 0,8 g/cm<sup>3</sup>
- n) Water solubility: no data available
- o) Partition coefficient: noctanol/water not determined
- p) Autoignition temperature: not determined
- q) Decomposition temperature: not determined
- 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

**Skin corrosion/irritation**

Ethanol: mild irritation,

isobutyl methyl ketone: Mild irritating effect.(rabbit)

**Serious eye damage/eye irritation**

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.

isobutyl methyl ketone: non mutagen

isopropyl alcohol: non mutagen

**Carcinogenicity**

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.

isobutyl methyl ketone: no data.

isopropyl alcohol: not cause reproductive toxicity

**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.

isobutyl methyl ketone: no data

isopropyl alcohol: May cause drowsiness or dizziness

**Specific target organ toxicity - repeated exposure**

Ethanol: Repeated exposure may cause skin dryness or cracking

isobutyl methyl ketone: no data

isopropyl alcohol: no data

**Aspiration hazard**

Ethanol: no data

isobutyl methyl ketone: no data

isopropyl alcohol: no data

**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

**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:** Readily biodegradable. (REACH)

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

**2.3 Bioaccumulative potential**

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 RELATED MATERIAL**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:**

H 225 Highly flammable liquid and vapour  
H 319 Causes serious eye irritation  
H 332 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  
Acute Tox. 4 Acute Toxicity Category 4

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

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