

Safety Data Sheet according to Regulation (EC) No. 878/2020

Date of Compilation/Revision: 30.01.2021.

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

1.1. Product identifiers Resin Tint

Type of substance: CLP Mixture

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

Solvent based highly pigmented cover ink. Ideal for coloring two-component resins.

1.3. Details of the supplier of the safety data sheet

Pentacolor Kft.

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

https://echa.europa.eu/documents/10162/23019181/emergency_phone_numbers_en.pdf/d911af43-4bcf-9371-a59d-a20736d91e7d

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

H336 May cause drowsiness or dizziness.

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008

Contains: isopropyl alcohol, ethyl methyl ketone, ethylene glycol monopropylether, EPGE

Hazard pictograms:



Signal Word: Danger

Hazard Statements:

H225 Highly flammable liquid and vapour

H319 Causes serious eye irritation

H336 May cause drowsiness or dizziness.

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.

In case of inadequate ventilation explosive mixtures can be formed. Vapors moderately irritate the mucous. In case of prolonged / repeated skin contact degreasing effect and dermatitis cause. May cause sensitization in susceptible persons.

SECTION 3: Composition/information on ingredients

3.2. Mixture

The mixture of the following hazardous substances with nonhazardous additions. (Resin, pigments) 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): isopropyl alcohol

concentration: 50-<70%%

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

Registration number : 01-2119457558-25-xxxx

Hazardous Substance(s): ethyl methyl ketone

concentration: 10 - < 20%

EC-No.: 201-159-0

CAS-No.: 78-93-3

Index-No. : 606-002-00-3

Classification according to Regulation (EC) No 1272/2008 : Flam Fam Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066

Registration number : 01-2119457290-43

Hazardous Substance(s): ethylene glycol monopropylether, EPGE

concentration: < 5%

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

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. If breathing is irregular or stopped, administer artificial respiration. 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. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Seek medical advice immediately.

EYE CONTACT

Rinse thoroughly with plenty of water for at least 15 minutes. Remove contact lenses. Subsequently seek the immediate attention of an ophthalmologist. Remove contact lenses.

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

May cause drowsiness or dizziness. Causes serious eye irritation.

High concentrations may cause narcotic effect.. After resorption: headache, dizziness, stupor, unconsciousness.

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.

Caution: In case of vomiting and gastric lavage, the substance may enter the lungs (aspiration)!

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

Highly flammable liquid and vapour.

The liquid evaporates quickly.

Vapors are heavier than air and along the floor spread.

Vapours form explosive mixtures with air.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing. .

Use water spray to cool unopened containers.

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

Move undamaged containers from immediate hazard area if it can be done safely.

Vapours form potentially explosive mixtures with air.

Heating will lead to increased pressure and risk of fracture.

You have to dispose of contaminated extinguishing water according to the regulations of the authorities.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

All ignition sources must be removed if safe to do so. Ensure adequate ventilation. Do not breathe vapour. Avoid contact with skin and eyes. Use personal protective equipment (see section 8.) The persons without protective equipment take out of the danger zone.

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Danger of explosion if liquid enters sewer system.

6.3. Methods and materials for containment and cleaning up

In case of spills of large quantities: Dam spills and pump to remove. Explosion protection required.

All deep places must be insulated. Absorb leftover product with non-flammable liquid-binding material (e.g. earth, sand, vermiculite or ground sand stone) and place in closed containers for disposal. Take precautionary measures against static discharge.

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. Wash hands before breaks and after work.

Remove contaminated clothing. Take measures to prevent the build up of electrostatic charge.

Vapours can form explosive mixtures with air.

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 away from heat and direct sunlight. Do not store together with combustible or self-igniting materials or any highly flammable solids. Keep away from oxidizing agents, acids, bases, alkaline earth metal. Keep out of reach of children. Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

See section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Components with workplace control parameters

CAS 67-63-0 Isopropyl alcohol: 200 ml/m³, 500 mg/m³ TRGS 900

CAS 78-93-3 ethyl methyl ketone:

Directive 2000/39/EC

8 hours limit value: 600 mg/m³ (200 ppm)

Short term limit value: 900 mg/m³ (300 ppm)

CAS 2807-30-9 ethylene glycol monopropylether

20 ml/m³, 86 mg/m³ TRGS 900

DNEL values:

Component	Use	Exposure route	Exposure frequency	Value
Isopropyl alcohol	Workers	skin	Long-term - systemic effects	888 mg/kg/day
	Workers	inhalation	Long-term - systemic effects	500 mg/m ³
	Consumers	skin	Long-term - systemic effects	319 mg/kg/day
	Consumers	inhalation	Long-term - systemic effects	89 mg/m ³
	Consumers	oral	Long-term - systemic effects	26 mg/kg/day
ethyl methyl ketone:	Workers	skin	Chronic effects	1161 mg/kg/day
	Workers	inhalation	Chronic effects	600 mg/kg
	Consumers	skin	Chronic effects	412 mg/m ³ /day
	Consumers	inhalation	Chronic effects	106 mg/kg
	Consumers	oral	Chronic effects	31 mg/kg/day
ethylene glycol monopropylether	Workers	skin	Long-term - systemic effects	3,4 mg/kg/day
	Workers	inhalation	Long-term - systemic effects	36 mg/m ³
	Consumers	skin	Long-term - systemic effects	2,2 mg/kg/day
	Consumers	inhalation	Long-term - systemic effects	7,7 mg/m ³
	Consumers	oral	Long-term - systemic effects	2,2 mg/kg/day

PNEC values:

Isopropyl alcohol

Fresh water: 140,9 mg/l

Sea-water: 140,9 mg/l

Intermittent releases: 140,9 mg/l

STP: 2.251 mg/L

Sediment: 552 mg/kg

Soil: 28 mg/kg

Oral: 160 mg/kg food

Ethyl methyl ketone:

Fresh water:: 55,8 mg/l

Sea-water: 55,8 mg/l

Freshwater desiment: 284,74 mg/kg

Marine sediment: 287,7 mg/kg

Soil: 22,5 mg/kg

Ethylene glycol monopropylether

Fresh water: 0,1 mg/l

Sea-water: 0,01 mg/l

Intermittent releases: 1 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. Avoid contact with eyes, skin, clothing and breathing of its vapours. Remove contaminated clothing. Avoid open flames. Keep away from sources of ignition. - No smoking. Wash hands before breaks and at the end of workday. When using do not eat, drink or smoke. Ensure eyewash and safety shower near the workplace.

Personal protective equipment**Eye/face protection**

Tightly sealed safety glasses according to EN 166.

Skin protection

Wear chemical-resistant gloves, nitrile rubber, butyl rubber, polychloroprene

Breakthrough time > 480 minute. Thickness: nitrile rubber: >= 0,35 mm, butyl rubber: >= 0,5 mm, polychloroprene: >= 0,5 mm, breakthrough time > 240 minute.

Unsuitable glove material: PVC (Polyvinylchloride), NR (Natural Rubber, Natural latex).

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 a filter cartridge according to or: The combined filter A-P2 or ABEK-P2 EN 14387 to use it.

Environmental exposure controls

Do not flush into surface water or sanitary sewer system.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

(a) Physical state liquid

(b) Colour according to specification

(c) Odour characteristic

(d) Melting point/freezing point not determined

(e) Boiling point or initial boiling point and boiling range not determined

(f) Flammability flammable liquid

(g) Lower and upper explosion limit not determined

(h) Flash point 12 C (DIN 51755) Isopropyl alcohol, -6 C ethyl methyl ketone (closed cup)

(i) Auto-ignition temperature not determined

(j) Decomposition temperature not determined

(k) pH not determined

(l) Kinematic viscosity not determined

- (m) Solubility partly soluble in water
- (n) Partition coefficient n-octanol/water (log value) not determined
- (o) Vapour pressure not determined
- (p) Density and/or relative density 0,85-0,93 g/cm³
- (q) Relative vapour density not determined
- (r) Particle characteristics not applicable

9.2. Other information

No data available

SECTION 10: Stability and reactivity**10.1. Reactivity**

Highly flammable liquid and vapour. Vapours form explosive mixtures with air.

10.2. Chemical stability

Under normal conditions there is no decomposition..

10.3. Possibility of hazardous reactions

Reacts with strong acids and strong oxidants. The liquid evaporates quickly. Vapors are heavier than air and floor spread. Vapors are explosive mixtures with air form. May backflash over large distances if ignited. Heating will lead to increased pressure and risk of fracture.

10.4. Conditions to avoid

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

Protect from temperatures above 35 ° C.

10.5. Incompatible materials

Strong acids, strong oxidizing agents. alkaline earth metal, aluminum, iron, amines.

Reacts with alkali at room temperature, less with alkaline metals and hydrogen develops. At higher temperature reacts more strongly.

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 hazard classes as defined in Regulation (EC) No 1272/2008**

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 drowsiness or dizziness.
- (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:**Acute toxicity, oral:****Isopropyl alcohol**

LD50 (oral, rat): 5840 mg/kg bw (OECD 401)

Ethyl methyl ketone:

LD50 (oral, rat):> 2000 mg / kg (literature data)

Ethylene glycol monopropylether

LD50 (oral, rat): 3089 mg/kg.

LD50 (oral, mouse): 1774 mg/kg.

Components:**Acute toxicity, inhalation:****Isopropyl alcohol**

LC50 (inhalation, rat, 6 h): > 25 mg/l (OECD 403)

Ethylene glycol monopropylether

LC50 (inhalation, rat, 6 h): > 2132 ppm (highest concentration available).

Components:**Acute toxicity, skin****Isopropyl alcohol**

LD50 (skin, rabbit): 13900 mg/kg bw (OECD 402)

Ethyl methyl ketone:

LD50 (dermal, rabbit): > 2000 mg / kg (literature data)

Ethylene glycol monopropylether

LD50 (skin, rabbit): 1337 mg/kg.

Other informations:

Symptoms: After inhalation: After resorption: headache, dizziness, stupor, unconsciousness. High concentrations of vapors irritate the eye and mucous membranes. Ingestion: Nausea, vomiting, stomach pain, gastrointestinal complaints, blood pressure. After taking large quantities: unconsciousness, coma, Respiratory paralysis (death). In case of ingestion or vomiting, there is a risk that penetrates the lungs. After resorption kidney and liver damage may occur. If skin contact: In case of prolonged / repeated skin contact has a degreasing effect and can cause dermatitis.

SECTION 12: Ecological information**12.1. Toxicity**

There are no data available on the preparation itself.

Components:**Isopropyl alcohol**

Aquatic toxicity: Toxicity to fish and plankton.

Growth inhibition test for algae: EC50 Green algae: 1.800 mg / L / 7d

Daphnia Toxicity:

EC50 Daphnia magna (large waterbird): 10,000 mg / L / 48h.

Fish toxicity: LC50 American Celle (Pimephales promelas): 9.640 mg / L / 96h.

Further information: Ground herbal toxicity: IK50 Lactuca sativa: 2.104 mg / kg / 3d.

Components:**Ethyl methyl ketone:**

Fish toxicity:

LC50 > 100 mg/l ((literature data) Leuciscus idus melanotus, 48 h

Daphnia Toxicity:

EC50 > 100 mg/l (literature data) Daphnia magna, 48 h

Algae Toxicity:

EC50 > 100 mg/l (literature data) Scenedesmus subspicatus, 72 h

Components:**Ethylene glycol monopropylether**

LC50 (fathead minnow, 96 h): > 91,3 mg/l.

LC50 (daphnia, 96 h): > 91,3 mg/l.

EC50 (flatworm, 72 h): > 91,3 mg/l.

12.2. Persistence and degradability**Components:**

Isopropyl alcohol: The product is readily biodegradable. Oxygen Demand: BOD 5: 53%, ThOD: 72%

Ethyl methyl ketone: The product is readily biodegradable.

Ethylene glycol monopropylether: No data

12.3. Bioaccumulative potential**Isopropyl alcohol:**

Bioaccumulation is not expected (log P (o / w) <1).

Ethyl methyl ketone:

No data available.

Ethylene glycol monopropylether:

No data available.

12.4. Mobility in soil

Isopropyl alcohol: No data available.

Ethyl methyl ketone:

Freely soluble in soil and low in adsorption capacity in soil.

Ethylene glycol monopropylether:

No data available.

12.5. Results of PBT and vPvB assessment

The ingredients are not PBT or vPvB substances.

12.6. Endocrine disrupting properties

The product does not contain substances identified as endocrine disrupters

12.7. 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**

Do not dispose of together with household waste. Discharge, treatment, or disposal may be subject to national, state, or local laws.

Recommendation: in compliance with special waste regulations, do so sent to an approved special waste incinerator / special waste depot. 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

Classification code: F1

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 Maritime transport in bulk according to IMO instruments

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.

Restrictions according to REACH Annex XVII.

The ingredients are not listed

List of substances subject to authorization (Annex XIV.)

The ingredients are not listed

SEVESO

7.b) Flammable liquids

Storage class: 3A Flammable liquids

The components of this product are included in the following notification lists; are exempted, or otherwise meet requirements: EINECS/ELINCS/NLP (EU), DSL/NDSL (Kanada), KECI (Dél-Korea), TSCA (USA).

The ingredients of this product are not included on California's 65 list

15.2. Chemical Safety Assessment

Chemical safety assessment has not been carried out.

SECTION 16: Other information

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
H336 May cause drowsiness or dizziness
EUH066 Repeated exposure may cause skin dryness or cracking

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

Flam. Liq. 2 H225 Based on the components data
Eye Irrit. 2 H319 Based on calculation method
STOT SE 3 H336 Based on calculation method

Data Sources:

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

Abbreviations:

Flam. Liq. Flammable Liquid
Eye Irrit. Eye Irritation
STOT SE Specific Target Organ Toxicity (single exposure)
Acute Tox. Acute Toxicity

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.