

SAFETY DATA SHEET Acc to Regulation (EU) 1907/2006 (REACH) INK 76000-00018

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name : 76000-00018 Ink, invisible, UV-blue- fluorescent ink

Use of the substance/preparation: Ink for industrial ink jet printers (CIJ-printers)

Supplier : Paul Leibinger GmbH & Co. KG

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2. COMPOSITION / INFORMATION ON INGREDIENTS

2.1 Classification of the mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Acute oral toxicity

Serious Eye Damage/Eye Irritation

Category 4

Category 1

Physical hazards: Flammable liquids

Category 2

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard pictograms





Signal word: Danger

Hazard statements:

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H225 Highly flammable liquid and vapour.

Precautionary statements

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray

P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing

P280 - Wear eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/ attention

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

P233 - Keep container tightly closed

2.3 Other hazards

No information available.

3. HAZARDS IDENTIFICATION

3.1 Description of the mixture

Mixture of organic solvents consisting of substances listed below with non-hazardous additions.

3.1.2 Hazardous ingredients

Component	EC No	CAS No.	%[Weight]	GHS Classification
Methyl propyl ketone	203-528-1	107-87-9	40-50	Flam. Liq. 2 (H225) Acute Tox. 4 (H302) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)
Ethyl alcohol	200-578-6	64-17-5	20-30	Flam. Liq. 2 (H225)
Methyl isobutyl ketone	203-550-1	108-10-1	1-5	(EUH066) Flam. Liq. 2 (H225) STOT SE 3 (H335) Acute Tox. 4 (H332) Eye Irrit. 2 (H319)
Phenol, 4,4'-(1-methyl- ethylidene)bis-, polymer with 2,2'-[(1-methylethylidene) bis(4,1-phenylene oxymethylene)] bis[oxirane] (Bisphenol A copolymer)	-	25036-25-3	1-5	No information available
Tetraalkyl ammoniumethylsulfate	269-662-8	68308-64-5	5-10	Skin Irrit. 2 (H315) Aquatic Acute 1 (H400) Acute Tox. 4 (H302) Eye Dam. 1 (H318)
n-Propyl acetate	203-686-1	109-60-4	1-5	(EUH066) Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)
Isopropyl alcohol	200-661-7	67-63-0	1-5	Flam. Liq. 2 (H225) STOT SE 3 (H336) Eye Irrit. 2 (H319)
Propylene glycol monomethyl ether	203-539-1	107-98-2	1-5	Flam. Liq. 3 (H226) STOT SE 3 (H336)

3.2 Additional information

Occupational exposure limits, if available, are listed in Section 8.

For the full text of H-phrases mentioned in this section, see Section 16.

4. FIRST AID MEASURES

4.1 Description of first aid measures

General Advice

Show this safety data sheet to the doctor in attendance

Eve Contact

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

Skin Contact

Wash off immediately with soap and plenty of water. Use a mild soap if available. Rinse immediately with plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation develops, get medical attention.

Inhalation

If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.

Ingestion

If swallowed, DO NOT induce vomiting. Call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person.

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

None under normal use conditions

4.3 Indication of any immediate medical attention and special treatment needed:

Notes to Physician: Treat symptomatically

5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media

Foam. Carbon dioxide (CO2). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Extinguishing media which shall not be used for safety reasons

No information available

5.2 Special hazards arising from the mixture:

Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

Burning produces obnoxious and toxic fumes.

Protective equipment for fire fighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition. Ventilate the area. Avoid breathing dust or vapor. Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

6.2 Environmental precautions:

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods of containment and cleaning up

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Do not use sparking tools.

6.4 Reference to other sections

See Section 12 for additional information.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Handling

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Remove and wash contaminated clothing before re-use. Discard contaminated shoes. When using do not smoke. Take notice of the directions of use on the label. Do not take internally. Harmful or fatal if swallowed.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice

7.1 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep out of the reach of children. Keep away from heat and sources of ignition.

7.3 Specific end use(s)

Ink for industrial InkJet-printers

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Exposure limits:

Component	CAS-No.	The United	France	Germany
	107.07.0	Kingdom	TIMANAME, OOO aaraa	
Methyl propyl ketone	107-87-9	STEL: 250 ppm STEL: 895 mg/m ₃ TWA: 200 ppm TWA: 716 mg/m ₃	TWA/VME: 200 ppm TWA/VME: 705 mg/m ³	No information available
Propylene glycol monomethyl ether	107-98-2	STEL: 150 ppm STEL: 560 mg/m³ TWA: 100 ppm TWA: 375 mg/m³ Skin	TWA/VME: 50 ppm (restrictive limit) TWA/VME: 188 mg/m³ (restrictive limit) STEL/VLCT: 100 ppm (restrictive limit) STEL/VLCT: 375mg/m³ (restrictive limit) Skin	TWA/MAK: 100 ppm TWA/MAK: 370 mg/m³ Peak: 200 ppm Peak: 740 mg/m³ TWA/AGW: 100 ppm TWA/AGW: 370 mg/m³
Methyl isobutyl ketone	108-10-1	STEL: 100 ppm STEL: 416 mg/m³ TWA: 50 ppm TWA: 208 mg/m³ Skin	TWA/VME: 20 ppm (restrictive limit) TWA/VME: 83 mg/m³ (restrictive limit) STEL/VLCT: 50 ppm (restrictive limit) STEL/VLCT: 208 mg/m³ (restrictive limit)	TWA/MAK: 20 ppm TWA/MAK: 83 mg/m³ Peak: 40 ppm Peak: 166 mg/m³ TWA/AGW: 20 ppm TWA/AGW: 83 mg/m³ Skin
n-Propyl acetate	109-60-4	STEL: 250 ppm STEL: 1060 mg/m³ TWA: 200 ppm TWA: 849 mg/m³	TWA/VME: 200 ppm TWA/VME: 840 mg/m³	TWA/MAK: 100 ppm TWA/MAK: 420 mg/m³ Peak: 200 ppm Peak: 840 mg/m³
Ethyl alcohol	64-17-5	STEL: 3000 ppm STEL: 5760 mg/m³ TWA: 1000 ppm TWA: 1920 mg/m³	TWA/VME: 1000 ppm TWA/VME: 1900mg/m³ STEL/VLCT: 5000ppm STEL/VLCT: 9500mg/m³	TWA/MAK: 500 ppm TWA/MAK: 960 mg/m³ Peak: 1000 ppm Peak: 1920 mg/m³ TWA/AGW: 500 ppm TWA/AGW: 960 mg/m³
Isopropyl alcohol	67-63-0	STEL: 500 ppm STEL: 1250 mg/m³ TWA: 400 ppm TWA: 999 mg/m³₃	STEL/VLCT: 400 ppm STEL/VLCT: 980mg/m³	TWA/MAK: 200 ppm TWA/MAK: 500 mg/m³ Peak: 400 ppm Peak: 1000 mg/m³ TWA/AGW: 200 ppm TWA/AGW: 500 mg/m³

8.2 Exposure controls

Engineering Measures

Use ventilation adequate to keep exposures below recommended exposure limits. In case of insufficient ventilation, wear suitable respiratory equipment.

Personal protective equipment

Eye Protection

Ensure that eyewash stations and safety showers are close to the workstation location. Avoid contact with eyes. Safety glasses with side-shields. Goggles. Face-shield.

Skin Protection

Wear protective gloves/clothing. Solvent-resistant apron and boots.

Hand Protection

Nitrile rubber. Neoprene gloves.

Respiratory Protection

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Respirator with a vapour filter.

Environmental exposure controls

No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state : Liquid
Colour : almost clear
Odour : characteristic

: Not available На Melting/freezing point : Not available Initial boiling point/range : >149°C (>300°F) Flash point : 8°C (46°F) (TCC) Evaporation rate (n-Butyl Acetate = 1) : No data available Flammability (solid, gas) : No data available Upper flammability : No data available Lower flammability : No data available Vapour pressure, mm Hg @ 20 ° C : No data available : Heavier than air Vapour density (Air = 1) : ~0.83 @ 20°C Specific density Solubility in water, Wt % @ 68 ° F : No data available Partition coefficient: n-octanol/water : No data available

octanol/water

Auto-ignition temperature : No data available
Decomposition temperature : Not applicable
Viscosity of Liquid, CPS @ 20°C : No data available
Explosive properties : Not available
Oxidizing properties : Not available

9.2 Other information: The flash point of this product has not been determined. The solvent with the lowest flash point of the mixture was used.

10. STABILITY AND REACTIVITY

10.1 Reactivity

No data available

10.2 Chemical stability:

Stable under normal conditions.

10.3 Possibility of hazardous reactions:

None under normal processing

10.4 Conditions to avoid:

Open flames, heat and sparks and sources of ignition.

10.5 Incompatible materials:

Strong acids. Strong bases. Strong oxidizing agents. Reducing agents

10.6 Hazardous decomposition products:

Thermal decomposition can lead to release of irritating gases and vapours. Carbon dioxide (CO2). Carbon monoxide.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Methyl propyl ketone	1600 mg/kg (Rat)	6500 mg/kg (Rabbit)	
Ethyl alcohol	7060 mg/kg (Rat)		124.7 mg/L (Rat) 4 h
Methyl isobutyl ketone	2080 mg/kg (Rat)	>16000 mg/kg (Rabbit)	8.2 mg/L (Rat) 4 h
n-Propyl acetate	9370 mg/kg (Rat)	>17760 mg/kg (Rabbit)	
Isopropyl alcohol	4396 mg/kg (Rat)	12870 mg/kg (Rabbit) 12800 mg/kg (Rat)	72.6 mg/L(Rat)4 h
Propylene glycol monomethyl ether	5200 mg/kg (Rat)	13000 mg/kg (Rabbit)	54.6 mg/L(Rat)4 h >24 mg/L(Rat)1 h

Irritation No information available Sensitisation No information available **Mutagenic Effects** No information available **Carcinogenic effects** No information available **Reproductive Effects** No information available No information available **Developmental hazard** STOT - single exposure No information available STOT - repeated exposure No information available **Aspiration Hazard** No information available

12. ECOLOGICAL INFORMATION

12.1 Toxicity:

Component	Algae	Fish	Water Flea
Methyl propyl ketone		96h LC50 Pimephales promelas: 1190 - 1290 mg/L [flow-through]	
Ethyl alcohol		96h LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static] 96h LC50 Pimephales promelas: 13400 - 15100 mg/L [flow-through] 96h LC50 Pimephales promelas: >100 mg/L [static]	48h LC50 Daphnia magna: 9268 - 14221 mg/L 24h EC50 Daphnia magna: 10800 mg/L
Methyl isobutyl ketone	96h EC50 Pseudokirchneriella subcapitata: 400 mg/L	96h LC50 Pimephales promelas: 496 - 514 mg/L [flow-through]	48h EC50 Daphnia magna: 170 mg/L
n-Propyl acetate		96h LC50 Pimephales promelas: 56 - 64 mg/L [flow-through] 96h LC50 Pimephales promelas: 56 - 64 mg/L [static]	24h EC50 Daphnia magna: 318mg/L
Isopropyl alcohol	72h EC50 Desmodesmus subspicatus: >1000 mg/L 96h EC50 Desmodesmus subspicatus: >1000 mg/L	96h LC50 Pimephales promelas: 11130 mg/L [static] 96h LC50 Pimephales promelas: 9640 mg/L [flow-through] 96h LC50 Lepomis macrochirus: >1400000 µg/L	48h EC50 Daphnia magna: 13299 mg/L
Propylene glycol monomethyl ether		96h LC50 Leuciscus idus: 4600 - 10000 mg/L [static] 96h LC50 Pimephales promelas: 20.8 g/L [static]	48h EC50 Daphnia magna: 23300 mg/L

12.2 Persistence and degradability

No information available

12.3 Bioaccumulative potential

Component	low Pow
Ethyl alcohol	-0.32
Methyl isobutyl ketone	1.19
Isopropyl alcohol	0.05
Propylene glycol monomethyl ether	-0.437

12.4 Mobility in soil

No information available

12.5 Results of PBT and vPvB assessment

No information available

12.6 Other adverse effects

No information available

13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste from Residues / Unused Products:

Dispose of in accordance with local regulations

Contaminated Packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORTATION INFORMATION

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	1210	1210	1210
14.2. UN proper shipping name	PRINTING INK	PRINTING INK	PRINTING INK
14.3. Transport hazard class(es)	3	3	3
14.4. Packing group	II	II	II
14.5. Environmental hazards	Yes	Yes	Yes

Additional Information: Special provisions 640 (C)

Tunnel code (D/E)

14.6. Special precautions for user

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

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

No information available.

15. REGULATORY INFORMATION

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

Listed on TSCA. For further information, please contact: Manufacturer, importer, supplier

Regulation (EC) No. 1907/2006 (REACH), Article 57

This product does not contain substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57)

15.2 Chemical Safety Assessment:

No Chemical Safety Assessment has been carried out for this mixture

16. OTHER INFORMATION

Abbreviations and acronyms

ADR: Accord européen sur le transport des merchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road).

CAS#: Chemical Abstract Service Registry Number.

CLP: Classification, Labelling and Packaging of substances and mixtures.

DPD: Dangerous Preparations Directive (Directive 1999/45/EC).

DSD: Dangerous Substances Directive (Directive 67/548/EEC).

EINECS: European Inventory of Existing Commercial chemicals Substances.

EU: European Union.

GHS: Globally Harmonized System of Classification and Labelling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

ID₅₀: Dose induced immobility in 50 % animals.

IMDG: International Maritime Code for Dangerous Goods.

LC50: Lethal concentration, 50 percent.

LD50: Lethal concentration, 50 percent.

REACH: Registration, Evaluation, Authorization and Restriction of Chemicals.

RID: Règlement international concernant le transport des merchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous goods by Rail).

TC_{LO}: Lowest published toxic concentration.

TWA: Time Weighted Average.

Full text of H-phrases referred to in Sections 2 and 3

H226 - Flammable liquid and vapor

H336 - May cause drowsiness or dizziness

H225 - Highly flammable liquid and vapor

H335 - May cause respiratory irritation

H332 - Harmful if inhaled

H319 - Causes serious eye irritation

H315 - Causes skin irritation

H400 - Very toxic to aquatic life

H302 - Harmful if swallowed

H318 - Causes serious eye damage Training advice:

Handling of this mixture is restricted to skilled personnel only.

Key literature references and sources for data

www.ChemADVISOR.com/

Disclaimer

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