

**Trade name:** 70000-00126, ink, black

**Current version :** 2.0.1, issued: 05.04.2024

**Replaced version:** 2.0.0, issued: 29.08.2023

**Region:**  
GER

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

### 1.1 Product identifier

**Trade name**

**70000-00126, ink, black**

**70000-00226, ink, black**

**UFI:**

**GJ00-216N-9005-RRG3**

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

**Relevant identified uses of the substance or mixture**

printer's ink

Ink

**Uses advised against**

No data available.

### 1.3 Details of the supplier of the safety data sheet

**Address**

Paul Leibinger GmbH & Co. KG

Daimlerstrasse 14

78532 Tuttlingen

Telephone no. +49 (0)7461 9286 0

Fax no. +49 (0)7461 9286 119

e-mail info@leibinger-group.com

**Advice on Safety Data Sheet**

sdb\_info@umco.de

**Subsidiary USA:**

**Address**

Paul Leibinger Inc

2702 Buell Drive, Suite B

East Troy, WI 52120 USA

Phone: +01 262 642 4030

### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

For medical advice in the USA (Transport & Environment):

+1 800 255 3924 (24h service)

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Eye Irrit. 2; H319

Flam. Liq. 2; H225

STOT SE 3; H336

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

### 2.2 Label elements

Trade name: 70000-00126, ink, black

Current version : 2.0.1, issued: 05.04.2024

Replaced version: 2.0.0, issued: 29.08.2023

Region:  
GER**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)****Hazard pictograms**

GHS02



GHS07

**Signal word**

Danger

**Hazardous component(s) to be indicated on label:**

butanone

**Hazard statement(s)**

H225 Highly flammable liquid and vapour.  
 H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.

**Hazard statements (EU)**

EUH066 Repeated exposure may cause skin dryness or cracking.

**Precautionary statement(s)**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P240 Ground and bond container and receiving equipment.  
 P241 Use explosion-proof electrical/ventilating/lighting/ equipment.  
 P242 Use non-sparking tools.  
 P243 Take action to prevent static discharges.  
 P261 Avoid breathing mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing/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.  
 P370+P378 In case of fire: Use sand, fire powder, carbon dioxide or foam to extinguish.

**UFI:**

GJ00-216N-9005-RRG3

**2.3 Other hazards**

This product does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

**PBT assessment**

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.

**vPvB assessment**

According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

**SECTION 3: Composition/information on ingredients****3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures****Chemical characterization**

Mixture based on: Resins; Cellulose nitrate; dyes

**Hazardous ingredients**

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	Concentration %
1	butanone		

**Trade name:** 70000-00126, ink, black**Current version :** 2.0.1, issued: 05.04.2024**Replaced version:** 2.0.0, issued: 29.08.2023**Region:**  
GER

	78-93-3 201-159-0 606-002-00-3 01-2119457290-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	>= 70,00 - < 90,00	wt%
2	<b>ethanol</b>			
	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 5,00 - < 10,00	wt%
3	<b>isopropyl acetate</b>			
	108-21-4 203-561-1 607-024-00-6 01-2119537214-46	EUH066 Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336	< 5,00	wt%

Full Text for all H-phrases and EUH-phrases: pls. see section 16

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	-	Eye Irrit. 2; H319: C >= 50%	-	-
3	C	-	-	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. In case of persisting adverse effects, consult a physician. In case of allergic symptoms, especially respiratory tract related, seek medical help immediately.

**After inhalation**

Remove affected persons from dangerous area by observing suitable respiratory protection measures. Ensure supply of fresh air.

**After skin contact**

In case of contact with skin wash off immediately with copious amounts of water.

**After eye contact**

Remove contact lenses. Rinse eye thoroughly under running water keeping eyelids wide open and protecting the unaffected eye (at least 10 to 15 minutes). Get medical attention if pain still persists.

**After ingestion**

Rinse the mouth thoroughly with water. Do not induce vomiting. Never give anything by mouth to an unconscious person.

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

No data available.

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

No data available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Alcohol resistant foam, CO<sub>2</sub>, powders, water spray

**Unsuitable extinguishing media**

High power water jet

**5.2 Special hazards arising from the substance or mixture**

**Trade name:** 70000-00126, ink, black**Current version :** 2.0.1, issued: 05.04.2024**Replaced version:** 2.0.0, issued: 29.08.2023**Region:**  
GER

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO); Nitrogen oxides (NO<sub>x</sub>); chromium compounds

**5.3 Advice for firefighters**

Use self-contained breathing apparatus. Wear protective clothing. Containers close to fire should be transferred to a safe place. Cool closed containers exposed to fire with water.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Refer to protective measures listed in sections 7 and 8. Keep away from ignition sources.

**For emergency responders**

Personal protective equipment (PPE) - see section 8.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

**6.3 Methods and material for containment and cleaning up**

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**

Information regarding safe handling, see section 7. Information regarding personal protective measures, see section 8. Information regarding waste disposal, see section 13.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Advice on safe handling**

Risks inherent to handling the product must be minimised by applying the appropriate protective and preventive measures. Working processes should - so far as possible, according to the state of the art - be designed to rule out bodily contact or the release of hazardous substances.

**General protective and hygiene measures**

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Do not inhale vapours. Avoid contact with eyes and skin. Wash hands before breaks and after work. Remove contaminated clothing and shoes and launder thoroughly before reusing.

**Advice on protection against fire and explosion**

Keep away from ignition sources and provide for good ventilation. Vapours can form an explosive mixture with air. Isolate from sources of heat, sparks and open flame. Take precautionary measures against electrostatic loading (earthing necessary during loading operations). Use explosion-proof equipment/fittings and non-sparking tools.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Keep container tightly closed and dry in a cool, well-ventilated place.

**Recommended storage temperature**

Value 10 - 25 °C

**Requirements for storage rooms and vessels**

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original.

**Incompatible products**

Substances to be avoided, see section 10.

**Storage Class according TRGS 510**

3 Flammable liquids

**7.3 Specific end use(s)****Recommendations**

Ink for industrial CIJ printers

Trade name: 70000-00126, ink, black

Current version : 2.0.1, issued: 05.04.2024

Replaced version: 2.0.0, issued: 29.08.2023

Region:  
GER**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
	TRGS 900		
	Butanon		
	WEL long-term (8-hr TWA reference period)	600 mg/m <sup>3</sup>	200 ml/m <sup>3</sup>
	Ceiling Limit	1(I)	
	Skin resorption / sensibilisation	H	
	Notes	Y	
	2000/39/EC		
	Butanone		
	WEL short-term (15 min reference period)	900 mg/m <sup>3</sup>	300 ppm
	WEL long-term (8-hr TWA reference period)	600 mg/m <sup>3</sup>	200 ppm
2	ethanol	64-17-5	200-578-6
	TRGS 900		
	Ethanol		
	WEL long-term (8-hr TWA reference period)	380 mg/m <sup>3</sup>	200 ml/m <sup>3</sup>
	Ceiling Limit	4 (II)	
	Notes	Y	

**Biological limit values**

No	Substance name	
1	butanone	
	TRGS 903	
	2-Butanon (Methylethylketon)	
	parameter	2-Butanon
	Value	2 mg/l
	Comments	DFG
	sample material	U
	Sampling moment	b

**DNEL, DMEL and PNEC values****DNEL values (worker)**

DNEL values (worker)

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	butanone			78-93-3 201-159-0	
	dermal	Long term (chronic)	systemic	1161	mg/kg/day
	inhalative	Long term (chronic)	systemic	600	mg/m³
	inhalative	Short term (acut)	systemic	900	mg/m³
2	ethanol			64-17-5 200-578-6	
	dermal	Long term (chronic)	systemic	8238	mg/kg/day
	inhalative	Long term (chronic)	systemic	380	mg/m³
3	isopropyl acetate			108-21-4 203-561-1	
	dermal	Long term (chronic)	systemic	27	mg/kg/day
	inhalative	Short term (acut)	systemic	558	mg/m³
	inhalative	Long term (chronic)	systemic	275	mg/m³
	inhalative	Long term (chronic)	local	227	mg/m³

**DNEL value (consumer)**

Trade name: 70000-00126, ink, black

Current version : 2.0.1, issued: 05.04.2024

Replaced version: 2.0.0, issued: 29.08.2023

Region:  
GER

No	Substance name			CAS / EC no
	Route of exposure	Exposure time	Effect	Value
1	butanone			78-93-3 201-159-0
	oral	Long term (chronic)	systemic	31 mg/kg/day
	dermal	Long term (chronic)	systemic	412 mg/kg/day
	inhalative	Long term (chronic)	systemic	106 mg/m³
	inhalative	Short term (acut)	systemic	450 mg/m³
2	ethanol			64-17-5 200-578-6
	inhalative	Long term (chronic)	systemic	114 mg/m³
3	isopropyl acetate			108-21-4 203-561-1
	oral	Long term (chronic)	systemic	16 mg/kg/day
	dermal	Long term (chronic)	systemic	16 mg/kg/day
	inhalative	Long term (chronic)	systemic	168 mg/m³
	inhalative	Short term (acut)	systemic	335 mg/m³
	inhalative	Long term (chronic)	local	136 mg/cm²

## PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	ethanol		64-17-5 200-578-6
	water	fresh water	0,96 mg/L
	water	marine water	0,79 mg/L
	water	fresh water sediment	3,6 mg/kg dry weight
	water	marine water sediment	2,9 mg/L
	soil	-	0,63 mg/kg dry weight
	sewage treatment plant	-	580 mg/L
	secondary poisoning with reference to: food	-	0,38 g/kg
2	isopropyl acetate		108-21-4 203-561-1
	water	fresh water	0,22 mg/L
	water	marine water	0,022 mg/L
	water	fresh water sediment	1,25 mg/kg
	water	marine water sediment	0,125 mg/kg
	soil	-	0,35 mg/kg dry weight
	sewage treatment plant	-	190 mg/L

## 8.2 Exposure controls

## Appropriate engineering controls

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapour below the OEL (=Occupational Exposure Limit), suitable respiratory protection must be worn.

## Personal protective equipment

## Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Respirator Filter A2

## Eye / face protection

Tightly fitting safety glasses (EN 166).

## Hand protection

**Trade name:** 70000-00126, ink, black**Current version :** 2.0.1, issued: 05.04.2024**Replaced version:** 2.0.0, issued: 29.08.2023**Region:**  
GER

Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

Appropriate Material	butyl rubber		
Material thickness	>	0,5	mm
Breakthrough time	>=	60	min

**Other**

Normal chemical work clothing.

**Environmental exposure controls**

No data available.

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

<b>State of aggregation</b>			
liquid			
<b>Colour</b>			
black			
<b>Odour</b>			
ketone-like			
<b>pH value</b>			
No data available			
<b>Boiling point / boiling range</b>			
Value	>	77	°C
Source	supplier		
<b>Melting point/freezing point</b>			
No data available			
<b>Decomposition temperature</b>			
No data available			
<b>Flash point</b>			
Value		-4	°C
Source	supplier		
<b>Ignition temperature</b>			
Value	>=	425	°C
Source	supplier		
<b>Flammability</b>			
No data available			
<b>Lower explosion limit</b>			
Value		1,8	% vol
Source	supplier		
<b>Upper explosion limit</b>			
Value		15	% vol
Source	supplier		
<b>Vapour pressure</b>			
No data available			
<b>Relative vapour density</b>			
No data available			

Trade name: 70000-00126, ink, black

Current version : 2.0.1, issued: 05.04.2024

Replaced version: 2.0.0, issued: 29.08.2023

Region:  
GER

Relative density			
No data available			
Density			
Value		0,874 g/cm³	
Source		supplier	
Solubility in water			
Source		supplier	
Comments		partly soluble	
Solubility			
No data available			
Partition coefficient n-octanol/water (log value)			
No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
log Pow		0,3	
Reference temperature		40	°C
Method		OECD 117	
Source		ECHA	
2	ethanol	64-17-5	200-578-6
log Pow		-0,35	
Reference temperature		24	°C
with reference to		pH 7,4	
Method		OECD 107	
Source		ECHA	
3	isopropyl acetate	108-21-4	203-561-1
log Pow		1,18	
Reference temperature		20	°C
Method		QSAR	
Source		ECHA	
Kinematic viscosity			
Value		appr. 5 mPa*s	
Source		supplier	
Solvent content			
Value		86 % (m)	
Solids content			
Value		17 % (m)	
Particle characteristics			
No data available			

## 9.2 Other information

Other information
VOC: 83 % (w/w), 667 g/l

## SECTION 10: Stability and reactivity

## 10.1 Reactivity

Dangerous reactions are not expected if the product is handled according to its intended use.

## 10.2 Chemical stability

Stable under recommended storage and handling conditions (See section 7).

## 10.3 Possibility of hazardous reactions

Dangerous reactions are not to be expected when handling product according to its intended use.

## 10.4 Conditions to avoid

Heat, naked flames and other ignition sources.

Trade name: 70000-00126, ink, black

Current version : 2.0.1, issued: 05.04.2024

Replaced version: 2.0.0, issued: 29.08.2023

Region:  
GER**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products**

None, if handled according to intended use.

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

Acute oral toxicity			
No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
LD50		2054	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA / Read across		
2	ethanol	64-17-5	200-578-6
LD50		10470	mg/kg bodyweight
Species	rat		
with reference to	95% ethanol in water		
Method	OECD 401		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
3	isopropyl acetate	108-21-4	203-561-1
LD50		6750	mg/kg bodyweight
Species	rat		
Source	ECHA		
Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	isopropyl acetate	108-21-4	203-561-1
LD50	>	17400	mg/kg bodyweight
Species	rabbit		
Source	ECHA		
Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
LC50		124,7	mg/l
Duration of exposure		4	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
2	isopropyl acetate	108-21-4	203-561-1
LC50		50,600	mg/l
Duration of exposure		8	h
State of aggregation	Vapour		
Species	rat		
Source	ECHA		
Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
Duration of exposure		4	h
Species	rabbit		
Method	OECD 404		
Source	ECHA / Read across		
Evaluation	non-irritant		

Trade name: 70000-00126, ink, black

Current version : 2.0.1, issued: 05.04.2024

Replaced version: 2.0.0, issued: 29.08.2023

Region:  
GER

2	ethanol	64-17-5	200-578-6
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		

**Serious eye damage/irritation**

No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0

Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		

2	ethanol	64-17-5	200-578-6
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Species	rabbit		
Method	OECD 405		
Source	ECHA		
Evaluation	irritant		
Evaluation/classification	Based on available data, the classification criteria are met.		

**Respiratory or skin sensitisation**

No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0

Route of exposure	Skin		
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Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		

2	ethanol	64-17-5	200-578-6
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Route of exposure	respiratory tract		
Source	ECHA		
Evaluation	non-sensitizing		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Route of exposure	Skin		
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Species	mouse		
Source	ECHA		
Evaluation	non-sensitizing		
Evaluation/classification	Based on available data, the classification criteria are not met.		

**Germ cell mutagenicity**

No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0

Type of examination	in vitro gene mutation study in bacteria		
Species	Salmonella typhimurium		
Method	OECD 471		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	In vitro Mammalian Chromosomal Aberration Test		
Species	rat		
Method	OECD 473		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	In vitro mammalian cell gene mutation test		
Species	Mouse lymphoma cells		
Method	OECD 476		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Type of examination	In vivo mammalian somatic cell study: cytogenicity / erythrocyte micronucleus		
Species	mouse		

Trade name: 70000-00126, ink, black

Current version : 2.0.1, issued: 05.04.2024

Replaced version: 2.0.0, issued: 29.08.2023

Region:  
GER

Method	OECD 474
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>2</b>	<b>ethanol</b>
	<b>64-17-5</b>
	<b>200-578-6</b>
Type of examination	in vitro gene mutation study in bacteria
Species	Salmonella typhimurium
Method	OECD 471
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
Type of examination	in vitro gene mutation study in mammalian cells
Species	mouse lymphoma cells
Method	OECD 476
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
Type of examination	Genotoxicity in vivo
Species	mouse
Method	OECD 478
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

**Reproduction toxicity**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>butanone</b>	<b>78-93-3</b>	<b>201-159-0</b>
Route of exposure	inhalational		
Type of examination	Prenatal Developmental Toxicity Study		
Species	rat		
Method	OECD 414		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>2</b>	<b>ethanol</b>	<b>64-17-5</b>	<b>200-578-6</b>
Route of exposure	oral		
NOAEL			
Type of examination	2 generation study		
Species	mouse		
Method	OECD 416		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
Route of exposure	inhalational		
NOAEL	>= 20000 ppm		
Type of examination	Prenatal Developmental Toxicity Study		
Species	rat		
Method	OECD 414		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

**Carcinogenicity**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>butanone</b>	<b>78-93-3</b>	<b>201-159-0</b>
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>2</b>	<b>ethanol</b>	<b>64-17-5</b>	<b>200-578-6</b>
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No	Substance name	CAS no.	EC no.
<b>1</b>	<b>butanone</b>	<b>78-93-3</b>	<b>201-159-0</b>
Route of exposure	inhalational		

Trade name: 70000-00126, ink, black

Current version : 2.0.1, issued: 05.04.2024

Replaced version: 2.0.0, issued: 29.08.2023

Region:  
GER

Species	rat
Method	OECD 413
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>2</b>	<b>ethanol</b>
	<b>64-17-5</b>
	<b>200-578-6</b>
Route of exposure	oral
Duration of exposure	14 week/s
Species	rat
Target organ	kidneys
Method	OECD 408
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

**Aspiration hazard**

No data available

**11.2 Information on other hazards****Endocrine disrupting properties**

No data available.

**Other information**

No data available.

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

<b>Toxicity to fish (acute)</b>			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>butanone</b>	<b>78-93-3</b>	<b>201-159-0</b>
LC50		2973	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		
<b>2</b>	<b>ethanol</b>	<b>64-17-5</b>	<b>200-578-6</b>
LC50		14200	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	EPA		
Source	ECHA		

**Toxicity to fish (chronic)**

No data available

<b>Toxicity to Daphnia (acute)</b>			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>butanone</b>	<b>78-93-3</b>	<b>201-159-0</b>
EC50		308	mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		
<b>2</b>	<b>ethanol</b>	<b>64-17-5</b>	<b>200-578-6</b>
EC50		5012	mg/l
Duration of exposure		48	h
Species	Ceriodaphnia dubia		
Method	ASTM Standard E 729-80		
Source	ECHA		
<b>3</b>	<b>isopropyl acetate</b>	<b>108-21-4</b>	<b>203-561-1</b>
EC50		110	mg/l

Trade name: 70000-00126, ink, black

Current version : 2.0.1, issued: 05.04.2024

Replaced version: 2.0.0, issued: 29.08.2023

Region:  
GER

Duration of exposure	48	h
Species	Artemia salina	
Source	ECHA	

**Toxicity to Daphnia (chronic)**

No	Substance name	CAS no.	EC no.
1	ethanol	64-17-5	200-578-6
NOEC		9,6	mg/l
Duration of exposure		9	day(s)
Species	Daphnia magna		
Source	ECHA		

**Toxicity to algae (acute)**

No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
EC50		1220	mg/l
Duration of exposure		96	h
Species	Raphidocelis subcapitata		
Method	OECD 201		
Source	ECHA		
2	ethanol	64-17-5	200-578-6
EC50		275	mg/l
Duration of exposure		72	h
Species	Chlorella vulgaris		
Method	OECD 201		
Source	ECHA		

**Toxicity to algae (chronic)**

No data available

**Bacteria toxicity**

No data available

**12.2 Persistence and degradability****Biodegradability**

No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
Type	aerobic biodegradation		
Value		98	%
Duration		28	day(s)
Method	OECD 301 D		
Source	ECHA		
Evaluation	readily biodegradable		
2	ethanol	64-17-5	200-578-6
Type	aerobic biodegradation		
Value	appr.	84	%
Duration		20	day(s)
Source	ECHA		
Evaluation	readily biodegradable		
3	isopropyl acetate	108-21-4	203-561-1
Type	ThOD		
Value		61	%
Duration		5	d
Method	OECD 301 D		
Evaluation	readily biodegradable		

**12.3 Bioaccumulative potential****Partition coefficient n-octanol/water (log value)**

No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
log Pow		0,3	

**Trade name:** 70000-00126, ink, black**Current version :** 2.0.1, issued: 05.04.2024**Replaced version:** 2.0.0, issued: 29.08.2023**Region:**  
GER

Reference temperature	40	°C
Method	OECD 117	
Source	ECHA	
<b>2</b>	<b>ethanol</b>	<b>64-17-5</b> <b>200-578-6</b>
log Pow	-0,35	
Reference temperature	24	°C
with reference to	pH 7,4	
Method	OECD 107	
Source	ECHA	
<b>3</b>	<b>isopropyl acetate</b>	<b>108-21-4</b> <b>203-561-1</b>
log Pow	1,18	
Reference temperature	20	°C
Method	QSAR	
Source	ECHA	

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB assessment**

Results of PBT and vPvB assessment	
PBT assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be PBT.
vPvB assessment	According to the information provided in the supply chain, the mixture does not contain > 0.1% of a substance that is considered to be vPvB.

**12.6 Endocrine disrupting properties**

No data available.

**12.7 Other adverse effects**

No data available.

**12.8 Other information**

Other information
Do not discharge product unmonitored into the environment.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Product**

Disposal of the product should be carried out in accordance with all applicable regulations following consultation with the responsible local authority and the disposal company in an authorised and suitable disposal facility.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

**Packaging**

Used, completely emptied, packaging may be disposed of or passed to recovery systems in compliance with national and local provisions related to waste legislation. Like the unused product, the packaging that has not been emptied, may be disposed of or passed to recovery systems in compliance with national and local provisions related to waste legislation.

**SECTION 14: Transport information****14.1 UN number or ID number**

ADR/RID/ADN	UN1210
IMDG	UN1210
ICAO-TI / IATA	UN1210

**14.2 UN proper shipping name**

ADR/RID/ADN	PRINTING INK
IMDG	PRINTING INK

Trade name: 70000-00126, ink, black

Current version : 2.0.1, issued: 05.04.2024

Replaced version: 2.0.0, issued: 29.08.2023

Region:  
GER

## ICAO-TI / IATA

Printing ink

**14.3 Transport hazard class(es)****ADR/RID/ADN - Class**

3

Label

3

Classification code

F1

Tunnel restriction code

D/E

Hazard identification no.

33

Special Provision 640

640C

**IMDG - Class**

3

Label

3

**ICAO-TI / IATA - Class**

3

Label

3

**14.4 Packing group****ADR/RID/ADN**

II

**IMDG**

II

**ICAO-TI / IATA**

II

**14.5 Environmental hazards**

EmS

F-E, S-D

**14.6 Special precautions for user**

No data available.

**14.7 Maritime transport in bulk according to IMO instruments**

Not relevant

**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulations****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

**REACH candidate list of substances of very high concern (SVHC) for authorisation**

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

**Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, MIXTURES AND ARTICLES**

The product is considered being subject to REACH regulation (EC) 1907/2006 annex XVII. No 3, 40

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	butanone	78-93-3	201-159-0	75
2	isopropyl acetate	108-21-4	203-561-1	75

**Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances**

This product is subject to Part I of Annex I, risk category: P5b

**Other regulations**

Adhere to the national sanitary and occupational safety regulations when using this product.

**National regulations****Water Hazard Class (Germany)**

**Trade name:** 70000-00126, ink, black**Current version :** 2.0.1, issued: 05.04.2024**Replaced version:** 2.0.0, issued: 29.08.2023**Region:**  
GER

Class	1
Source	Classification according to AwSV (Regulation on facilities for handling substances that are hazardous to water).

**15.2 Chemical safety assessment**

A chemical safety assessment has been carried out for the following substance/s in this mixture:

**SECTION 16: Other information****Sources of key data used to compile the data sheet:**

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164.

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding section.

**Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)**

C Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.

**Creation of the safety data sheet**

UMCO GmbH - D-21107 Hamburg, Georg-Wilhelm-Strasse 187, Tel.: +49(40)555 546 300, Fax: +49(40)555 546 357, e-mail: umco@umco.de

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

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