

**Trade name:** 70000-00801, ink, black

**Product no.:** 70000-00801

**Current version :** 2.0.0, issued: 29.07.2024

**Replaced version:** 1.0.2, issued: 05.02.2024

**Region:**  
GER

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

### 1.1 Product identifier

**Trade name**

**70000-00801, ink, black**

**UFI:**

**G9M3-C0GR-G00A-9ASY**

### 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)**

Aquatic Chronic 3; H412

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

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**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.  
 H412 Harmful to aquatic life with long lasting effects.

**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.  
 P261 Avoid breathing dust/fume/gas/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 water spray, extinguishing powder, foam or CO2 to extinguish.

**UFI:**

G9M3-C0GR-G00A-9ASY

**2.3 Other hazards**

PBT assessment  
 No data available.

vPvB assessment  
 No data available.

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

**3.1 Substances**

Not applicable. The product is not a substance.

**3.2 Mixtures**

**Hazardous ingredients**

No	Substance name	Classification (EC) 1272/2008 (CLP)	Additional information	%
	CAS / EC / Index / REACH no		Concentration	
1	butanone			
	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	>= 50,00 - < 70,00	wt%
2	ethanol			

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	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 - < 10,00	wt%
4	<b>propan-2-ol</b>			
	67-63-0 200-661-7 603-117-00-0 01-2119457558-25	Eye Irrit. 2; H319 Flam. Liq. 2; H225 STOT SE 3; H336	< 5,00	wt%
5	<b>sodium bis[1-[(2-hydroxy-3-nitro-5-tert-pentylphenyl)azo]-2-naphtholato(2-)]chromate(1-)</b>			
	57206-83-4 260-617-8 - -	Aquatic Chronic 2; H411	< 2,50	wt%
6	<b>sodium bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphtholato(2-)]chromate(1-)</b>			
	57206-81-2 260-616-2 - -	Aquatic Chronic 2; H411	< 2,50	wt%
7	<b>sodium [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphtholato(2-)][1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphtholato(2-)]chromate(1-)</b>			
	59307-49-2 261-691-4 - -	Aquatic Chronic 2; H411	< 2,50	wt%
8	<b>sodium bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphtholato(2-)]chromate(1-)</b>			
	64611-73-0 264-966-7 - -	Aquatic Chronic 2; H411	< 2,50	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.

**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 with water.

**After eye contact**

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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**

In the event of fire, the following can be released: Carbon dioxide (CO<sub>2</sub>); Carbon monoxide (CO)

**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. Run-off water from fire fighting must not be discharged into drains or enter surface 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. In case of entry into waterways, soil or drains, inform the responsible authorities.

**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.

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Region:  
GER**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 5 - 35 °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

**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
	<b>TRGS 900</b>		
	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	
	<b>2000/39/EC</b>		
	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
	<b>TRGS 900</b>		
	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	
3	propan-2-ol	67-63-0	200-661-7
	<b>TRGS 900</b>		
	Propan-2-ol		
	WEL long-term (8-hr TWA reference period)	500	mg/m <sup>3</sup> 200 ml/m <sup>3</sup>
	Ceiling Limit	2(II)	
	Notes	Y	
4	sodium bis[1-[[2-hydroxy-3-nitro-5-tert-pentylphenyl]azo]-2-naphtholato(2-)]chromate(1-)	57206-83-4	260-617-8
	<b>2004/37/EC</b>		
	Chromium (VI) compounds		
	WEL long-term (8-hr TWA reference period)	0,005	mg/m <sup>3</sup>

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	Comments	Limit value 0,010 mg/m <sup>3</sup> until 17 January 2025 Limit value: 0,025 mg/m <sup>3</sup> for welding or plasma cutting processes or similar work processes that generate fume until 17 January 2025	
<b>5</b>	<b>sodium bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphtholato(2-)]chromate(1-)</b>	<b>57206-81-2</b>	<b>260-616-2</b>
	<b>2004/37/EC</b>		
	Chromium (VI) compounds		
	WEL long-term (8-hr TWA reference period)	0,005	mg/m <sup>3</sup>
	Comments	Limit value 0,010 mg/m <sup>3</sup> until 17 January 2025 Limit value: 0,025 mg/m <sup>3</sup> for welding or plasma cutting processes or similar work processes that generate fume until 17 January 2025	
<b>6</b>	<b>sodium [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphtholato(2-)][1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphtholato(2-)]chromate(1-)</b>	<b>59307-49-2</b>	<b>261-691-4</b>
	<b>2004/37/EC</b>		
	Chromium (VI) compounds		
	WEL long-term (8-hr TWA reference period)	0,005	mg/m <sup>3</sup>
	Comments	Limit value 0,010 mg/m <sup>3</sup> until 17 January 2025 Limit value: 0,025 mg/m <sup>3</sup> for welding or plasma cutting processes or similar work processes that generate fume until 17 January 2025	
<b>7</b>	<b>sodium bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphtholato(2-)]chromate(1-)</b>	<b>64611-73-0</b>	<b>264-966-7</b>
	<b>2004/37/EC</b>		
	Chromium (VI) compounds		
	WEL long-term (8-hr TWA reference period)	0,005	mg/m <sup>3</sup>
	Comments	Limit value 0,010 mg/m <sup>3</sup> until 17 January 2025 Limit value: 0,025 mg/m <sup>3</sup> for welding or plasma cutting processes or similar work processes that generate fume until 17 January 2025	

**Biological limit values**

No	Substance name		
<b>1</b>	<b>butanone</b>		
	<b>TRGS 903</b>		
	2-Butanon (Methylethylketon)		
	parameter	2-Butanon	
	Value	2	mg/l
	Comments	DFG	
	sample material	U	
	Sampling moment	b	
<b>2</b>	<b>propan-2-ol</b>		
	<b>TRGS 903</b>		
	Propan-2-ol		
	parameter	Aceton	
	Value	25	mg/l
	Comments	DFG	
	sample material	B	
	Sampling moment	b	
	<b>TRGS 903</b>		
	Propan-2-ol		
	parameter	Aceton	
	Value	25	mg/l
	Comments	DFG	
	sample material	U	
	Sampling moment	b	

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**DNEL, DMEL and PNEC values**

**DNEL values (worker)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	<b>butanone</b>			<b>78-93-3</b> <b>201-159-0</b>	
	dermal	Long term (chronic)	systemic	1161	mg/kg/day
	inhalative	Long term (chronic)	systemic	600	mg/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	900	mg/m <sup>3</sup>
2	<b>ethanol</b>			<b>64-17-5</b> <b>200-578-6</b>	
	dermal	Long term (chronic)	systemic	8238	mg/kg/day
	inhalative	Long term (chronic)	systemic	380	mg/m <sup>3</sup>
3	<b>isopropyl acetate</b>			<b>108-21-4</b> <b>203-561-1</b>	
	dermal	Long term (chronic)	systemic	27	mg/kg/day
	inhalative	Short term (acut)	systemic	558	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	systemic	275	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	227	mg/m <sup>3</sup>
4	<b>propan-2-ol</b>			<b>67-63-0</b> <b>200-661-7</b>	
	dermal	Long term (chronic)	systemic	888	mg/kg/day
	inhalative	Long term (chronic)	systemic	500	mg/m <sup>3</sup>

**DNEL value (consumer)**

No	Substance name			CAS / EC no	
	Route of exposure	Exposure time	Effect	Value	
1	<b>butanone</b>			<b>78-93-3</b> <b>201-159-0</b>	
	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/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	450	mg/m <sup>3</sup>
2	<b>ethanol</b>			<b>64-17-5</b> <b>200-578-6</b>	
	inhalative	Long term (chronic)	systemic	114	mg/m <sup>3</sup>
3	<b>isopropyl acetate</b>			<b>108-21-4</b> <b>203-561-1</b>	
	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/m <sup>3</sup>
	inhalative	Short term (acut)	systemic	335	mg/m <sup>3</sup>
	inhalative	Long term (chronic)	local	136	mg/cm <sup>2</sup>
4	<b>propan-2-ol</b>			<b>67-63-0</b> <b>200-661-7</b>	
	oral	Long term (chronic)	systemic	26	mg/kg/day
	dermal	Long term (chronic)	systemic	319	mg/kg/day
	inhalative	Long term (chronic)	systemic	89	mg/m <sup>3</sup>

**PNEC values**

No	Substance name		CAS / EC no	
	ecological compartment	Type	Value	
1	<b>ethanol</b>		<b>64-17-5</b> <b>200-578-6</b>	
	water	fresh water	0,96	mg/L
	water	marine water	0,79	mg/L
	water	fresh water sediment	3,6	mg/kg dry weight

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	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	<b>isopropyl acetate</b>		<b>108-21-4</b> <b>203-561-1</b>	
	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
3	<b>propan-2-ol</b>		<b>67-63-0</b> <b>200-661-7</b>	
	soil	-	28	mg/kg
	sewage treatment plant	-	2251	mg/L
	secondary poisoning with reference to: food	-	160	mg/kg

## 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.

#### Eye / face protection

Safety glasses with side protection shield (EN 166)

#### Hand protection

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.

#### 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>	characteristic

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pH value			
reason for missing pH		substance/mixture is non-polar/aprotic	
Boiling point / boiling range			
Value		> 78 °C	
Source		supplier	
Melting point/freezing point			
No data available			
Decomposition temperature			
No data available			
Flash point			
Value		-6 °C	
Source		supplier	
Ignition temperature			
No data available			
Auto-ignition temperature			
Value		404 °C	
Source		supplier	
Flammability			
No data available			
Lower explosion limit			
Value		1,8 % vol	
Source		supplier	
Upper explosion limit			
Value		19 % vol	
Source		supplier	
Vapour pressure			
Value		10,5 kPa	
Source		supplier	
Relative vapour density			
Value		2,41	
Source		supplier	
Comments		Air = 1	
Evaporation rate			
Value		6	
Reference substance		Butyl Acetate	
Source		supplier	
Relative density			
No data available			
Density			
No data available			
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	

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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		
4	propan-2-ol	67-63-0	200-661-7
log Pow		0,05	
Reference temperature		25	°C
Source	ECHA		

Kinematic viscosity	
No data available	

Particle characteristics	
No data available	

## 9.2 Other information

Other information
VOC: 86 %

## 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.

### 10.5 Incompatible materials

Oxidizing agents; strong bases; strong acids

### 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		

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Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>3</b>   <b>isopropyl acetate</b>	<b>108-21-4</b> <b>203-561-1</b>
LD50	6750 mg/kg bodyweight
Species	rat
Source	ECHA
<b>4</b>   <b>propan-2-ol</b>	<b>67-63-0</b> <b>200-661-7</b>
LD50	5840 mg/kg bodyweight
Species	rat
Method	OECD 401
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>isopropyl acetate</b>	<b>108-21-4</b>	<b>203-561-1</b>
LD50	>	17400	mg/kg bodyweight
Species	rabbit		
Source	ECHA		

Acute inhalational toxicity			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>ethanol</b>	<b>64-17-5</b>	<b>200-578-6</b>
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.		
<b>2</b>	<b>isopropyl acetate</b>	<b>108-21-4</b>	<b>203-561-1</b>
LC50		50,600	mg/l
Duration of exposure		8	h
State of aggregation	Vapour		
Species	rat		
Source	ECHA		
<b>3</b>	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
LC50	>	10000	ppmV
Duration of exposure		6	h
State of aggregation	Vapour		
Species	rat		
Method	OECD 403		
Source	ECHA		
Evaluation/classification	Based on available data, the classification criteria are not met.		

Skin corrosion/irritation			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>butanone</b>	<b>78-93-3</b>	<b>201-159-0</b>
Duration of exposure		4	h
Species	rabbit		
Method	OECD 404		
Source	ECHA / Read across		
Evaluation	non-irritant		
<b>2</b>	<b>ethanol</b>	<b>64-17-5</b>	<b>200-578-6</b>
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		
Evaluation/classification	Based on available data, the classification criteria are not met.		
<b>3</b>	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
Species	rabbit		

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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	<b>butanone</b>	<b>78-93-3</b>	<b>201-159-0</b>
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		irritant	
2	<b>ethanol</b>	<b>64-17-5</b>	<b>200-578-6</b>
Species		rabbit	
Method		OECD 405	
Source		ECHA	
Evaluation		irritant	
Evaluation/classification		Based on available data, the classification criteria are met.	
3	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
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	<b>butanone</b>	<b>78-93-3</b>	<b>201-159-0</b>
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
Source		ECHA	
Evaluation		non-sensitizing	
2	<b>ethanol</b>	<b>64-17-5</b>	<b>200-578-6</b>
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	
Species		mouse	
Source		ECHA	
Evaluation		non-sensitizing	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
Route of exposure		Skin	
Species		guinea pig	
Method		OECD 406	
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	<b>butanone</b>	<b>78-93-3</b>	<b>201-159-0</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 Mammalian Chromosomal Aberration Test	
Species		rat	
Method		OECD 473	

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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
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>
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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.

<b>3</b>	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
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Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

**Reproduction toxicity**

No	Substance name	CAS no.	EC no.
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<b>1</b>	<b>butanone</b>	<b>78-93-3</b>	<b>201-159-0</b>
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Route of exposure	inhalational
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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>
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Route of exposure	oral
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NOAEL	
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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
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NOAEL	>=	20000	ppm
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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>3</b>	<b>propan-2-ol</b>	<b>67-63-0</b>	<b>200-661-7</b>
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Route of exposure	oral
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NOAEL		1000	mg/kg bw/d
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Type of examination	Two-Generation Reproduction Toxicity Study
Species	rats (male/female)
Method	OECD 416
Source	ECHA
Evaluation/classification	Based on the available data, the classification criteria are not met.

**Carcinogenicity**

No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	ethanol	64-17-5	200-578-6
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
3	propan-2-ol	67-63-0	200-661-7
Route of exposure		inhalational	
NOEL		5000	ppm
Species		rats (male/female)	
Method		OECD 451	
Source		ECHA	

**STOT - single exposure**

No data available

**STOT - repeated exposure**

No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
Route of exposure		inhalational	
Species		rat	
Method		OECD 413	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
2	ethanol	64-17-5	200-578-6
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.	
3	propan-2-ol	67-63-0	200-661-7
Route of exposure		inhalational	
NOAEC		12500	mg/m <sup>3</sup>
Species		rat	
Method		OECD 451	
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**

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Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
LC50		2973	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		
2	ethanol	64-17-5	200-578-6
LC50		14200	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	EPA		
Source	ECHA		
3	propan-2-ol	67-63-0	200-661-7
LC50		9640	mg/l
Duration of exposure		96	h
Species	Pimephales promelas		
Method	OECD 203		
Source	ECHA		

Toxicity to fish (chronic)			
No data available			

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

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EC50	275	mg/l
Duration of exposure	72	h
Species	Chlorella vulgaris	
Method	OECD 201	
Source	ECHA	

<b>Toxicity to algae (chronic)</b>
No data available

<b>Bacteria toxicity</b>
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	
4	propan-2-ol	67-63-0	200-661-7
Type		BOD/COD	
Value		53	%
Duration		5	day(s)
Source		ECHA	
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	
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	

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4	propan-2-ol	67-63-0	200-661-7
log Pow		0,05	
Reference temperature		25	°C
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	No data available.
vPvB assessment	No data available.

**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.
Do not discharge into drains or waters and do not dispose of in public landfills.

**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**

<b>ADR/RID/ADN</b>	UN1210
<b>IMDG</b>	UN1210
<b>ICAO-TI / IATA</b>	UN1210

**14.2 UN proper shipping name**

<b>ADR/RID/ADN</b>	PRINTING INK
<b>IMDG</b>	PRINTING INK
<b>ICAO-TI / IATA</b>	Printing ink

**14.3 Transport hazard class(es)**

<b>ADR/RID/ADN - Class</b>	3
<b>Label</b>	3
<b>Classification code</b>	F1
<b>Tunnel restriction code</b>	D/E
<b>Hazard identification no.</b>	33
<b>Special Provision 640</b>	640C
<b>IMDG - Class</b>	3
<b>Label</b>	3

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- 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	ethyl-acetate	141-78-6	205-500-4	75
3	isopropyl acetate	108-21-4	203-561-1	75
4	propan-2-ol	67-63-0	200-661-7	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)**

Class 3  
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 one or more of the substances within this mixture.

**SECTION 16: Other information**

**Sources of key data used to compile the data sheet:**

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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.

**Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)**

H411 Toxic to aquatic life with long lasting effects.

**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**

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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.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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