

Trade name: 70000-00141, ink, black

Product no.: 70000-00141

Current version : 1.0.0, issued: 04.11.2021

Replaced version: -, issued: -

Region: IE

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

1.1 Product identifier

Trade name

70000-00141, ink, black

UFI:

Q057-60M2-W00V-PKQX

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

1.4 Emergency telephone number

+353 1 809 2166 (National Poisons Information Centre)

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 Dam. 1; H318

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

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

Hazard pictograms



GHS02



GHS05



GHS07

Signal word

Danger

Hazardous component(s) to be indicated on label:

Trade name: 70000-00141, ink, black

Product no.: 70000-00141

Current version : 1.0.0, issued: 04.11.2021

Replaced version: -, issued: -

Region: IE

butanone
ethyl (S)-2-hydroxypropionate

Hazard statement(s)

H225 Highly flammable liquid and vapour.
H318 Causes serious eye damage.
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.
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.
P310 Immediately call a POISON CENTER/doctor.
P370+P378 In case of fire: Use sand, fire powder, carbon dioxide or foam to extinguish.

UFI:

Q057-60M2-W00V-
PKQX

2.3 Other hazards

PBT assessment

The components of this product are not considered to be a PBT.

vPvB assessment

The components of this product are not considered to be a 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: solvent; dyes; Binder

Hazardous ingredients

No	Substance name	Additional information	
	CAS / EC / Index / REACH no	Classification (EC) 1272/2008 (CLP)	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	>= 70,00 - < 90,00 wt%
2	C. I. Solvent Black 29 (Reaction mass of Sodium or ammonium [1-((E)-[2-(hydroxy-kO)-4-nitrophenyl]diazenyl)naphthalen-2-olato(2-)-kO][3-((E)-[2-(hydroxy-kO)-5-nitrophenyl]diazenyl)naphthalen-2-olato(2-)-kO]chromate(1-) and Sodium or ammonium [3-((E)-[2-(hydroxy-kO)-5-(2-methylbutan-2-yl)-3-nitrophenyl]diazenyl)naphthalen-2-olato(2-)-kO][1-((E)-[2-(hydroxy-kO)-5-nitrophenyl]diazenyl)naphthalen-2-olato(2-)-kO]chromate(1-) and Sodium or ammonium [3-((E)-[2-(hydroxy-kO)-5-(2-methylbutan-2-yl)-3-nitrophenyl]diazenyl)naphthalen-2-olato(2-)-		

Trade name: 70000-00141, ink, black

Product no.: 70000-00141

Current version : 1.0.0, issued: 04.11.2021

Replaced version: -, issued: -

Region: IE

kO][1-[(E)-[2-(hydroxy-kO)-4-nitrophenyl]diazanyl]naphthalen-2-olato(2-)-kO]chromate(1-) and Sodium or ammonium [1-[(E)-[2-(hydroxy-kO)-5-nitrophenyl]diazanyl]naphthalen-2-olato(2-)-kO][3-[(E)-[2-(hydroxy-kO)-5-nitrophenyl]diazanyl]naphthalen-2-olato(2-)-kO]chromate(1-) and Sodium or ammonium [1-[(E)-[2-(hydroxy-kO)-4-nitrophenyl]diazanyl]naphthalen-2-olato(2-)-kO][3-[(E)-[2-(hydroxy-kO)-4-nitrophenyl]diazanyl]naphthalen-2-olato(2-)-kO]chromate(1-) and Sodium or ammonium [1-[(E)-[2-(hydroxy-kO)-5-(2-methylbutan-2-yl)-3-nitrophenyl]diazanyl]naphthalen-2-olato(2-)-kO][3-[(Z)-[2-(hydroxy-kO)-5-(2-methylbutan-2-yl)-3-nitrophenyl]diazanyl]naphthalen-2-olato(2-)-kO]chromate(1-))			
1029600-34-7 700-174-4 611-044-00-0 01-2119452467-33	Aquatic Chronic 2; H411	>= 5,00 - < 10,00	wt%
3 ethyl (S)-2-hydroxypropionate			
687-47-8 211-694-1 607-129-00-7 01-2119516234-49	Eye Dam. 1; H318 Flam. Liq. 3; H226 STOT SE 3; H335	< 5,00	wt%

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

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

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, CO₂, 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 (CO₂); Carbon monoxide (CO); Nitrogen oxides (NO_x); chromium compounds

5.3 Advice for firefighters

Trade name: 70000-00141, ink, black

Product no.: 70000-00141

Current version : 1.0.0, issued: 04.11.2021

Replaced version: -, issued: -

Region: IE

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 15 - 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.

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

Trade name: 70000-00141, ink, black

Product no.: 70000-00141

Current version : 1.0.0, issued: 04.11.2021

Replaced version: -, issued: -

Region: IE

No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
	2000/39/EC		
	Butanone		
	WEL short-term (15 min reference period)	900 mg/m ³	300 ppm
	WEL long-term (8-hr TWA reference period)	600 mg/m ³	200 ppm
	List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)		
	Methyl ethyl ketone		
	WEL short-term (15 min reference period)	900 mg/m ³	300 ppm
	WEL long-term (8-hr TWA reference period)	600 mg/m ³	200 ppm
	Comments	Sk, IOELV	
2	C. I. Solvent Black 29 (Reaction mass of Sodium or ammonium [1-((E)-[2-(hydroxy-kO)-4-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO][3-((E)-[2-(hydroxy-kO)-5-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO]chromate(1-) and Sodium or ammonium [3-((E)-[2-(hydroxy-kO)-5-(2-methylbutan-2-yl)-3-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO][1-((E)-[2-(hydroxy-kO)-5-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO]chromate(1-) and Sodium or ammonium [3-((E)-[2-(hydroxy-kO)-5-(2-methylbutan-2-yl)-3-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO][1-((E)-[2-(hydroxy-kO)-4-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO]chromate(1-) and Sodium or ammonium [1-((E)-[2-(hydroxy-kO)-5-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO][3-((E)-[2-(hydroxy-kO)-5-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO]chromate(1-) and Sodium or ammonium [1-((E)-[2-(hydroxy-kO)-4-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO][3-((E)-[2-(hydroxy-kO)-4-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO]chromate(1-) and Sodium or ammonium [1-((E)-[2-(hydroxy-kO)-5-(2-methylbutan-2-yl)-3-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO][3-((Z)-[2-(hydroxy-kO)-5-(2-methylbutan-2-yl)-3-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO]chromate(1-))	1029600-34-7	700-174-4
	List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)		
	Chromium(VI)compounds(as Cr) Water Soluble		
	WEL long-term (8-hr TWA reference period)	0,05 mg/m ³	
	Comments	Carc.1B	
	List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)		
	Chromium(VI)compounds(as Cr) Water Soluble		
	WEL long-term (8-hr TWA reference period)	0,01 mg/m ³	
	Comments	Carc.1B	

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

No	Substance name	CAS / EC no
	Route of exposure	Value
	Exposure time	
	Effect	
1	butanone	78-93-3 201-159-0
	dermal	Long term (chronic) systemic 1161 mg/kg/day
	inhalative	Long term (chronic) systemic 600,00 mg/m ³

DNEL value (consumer)

Trade name: 70000-00141, ink, black

Product no.: 70000-00141

Current version : 1.0.0, issued: 04.11.2021

Replaced version: -, issued: -

Region: IE

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

PNEC values

No	Substance name		CAS / EC no
	ecological compartment	Type	Value
1	butanone		78-93-3 201-159-0
	water	fresh water	55,8 mg/L
	water	marine water	55,8 mg/L
	water	Aqua intermittent	55,8 mg/L
	water	fresh water sediment	284,74 mg/kg
	with reference to: dry weight		
	water	marine water sediment	284,7 mg/kg
	with reference to: dry weight		
	soil	-	22,5 mg/kg
	with reference to: dry weight		
	sewage treatment plant	-	709 mg/L
	secondary poisoning	-	1000 mg/kg
	with reference to: food		
2	ethyl (S)-2-hydroxypropionate		687-47-8 211-694-1
	water	fresh water	0,32 mg/L
	water	marine water	0,032 mg/L
	water	Aqua intermittent	3,2 mg/L
	water	fresh water sediment	1,66 mg/kg dry weight
	water	marine water sediment	0,166 mg/kg dry weight
	soil	-	0,145 mg/kg dry weight

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.

Appropriate Material

In case of longer-term contact: butyl rubber

Material thickness

>= 0,7 mm

Trade name: 70000-00141, ink, black**Product no.:** 70000-00141**Current version :** 1.0.0, issued: 04.11.2021**Replaced version:** -, issued: -**Region:** IE

Appropriate Material

In case of short-term contact / splash protection: nitrile rubber

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**

State of aggregation		
liquid		
Form/Colour		
black		
Odour		
solvent-like		
pH value		
No data available		
Boiling point / boiling range		
Value	79	- 110 °C
Method	DIN 51751	
Source	supplier	
Melting point/freezing point		
No data available		
Decomposition temperature		
No data available		
Flash point		
Value	-4	°C
Method	DIN 51755	
Source	supplier	
Ignition temperature		
Value	514	°C
Method	DIN 51794	
Source	supplier	
Explosive properties		
The product is not explosive. Formation of explosive/highly flammable air-vapour mixtures is possible during/after use.		
Flammability		
No data available		
Lower explosion limit		
Value	1,8	% vol
Method	DIN 51649	
Source	supplier	
Upper explosion limit		
Value	11,5	% vol
Method	DIN 51649	
Source	supplier	
Vapour pressure		
Value	105	hPa
Reference temperature	20	°C
Method	DIN 51754	
Source	supplier	

Trade name: 70000-00141, ink, black**Product no.:** 70000-00141**Current version :** 1.0.0, issued: 04.11.2021**Replaced version:** -, issued: -**Region:** IE**Relative vapour density**

No data available

Relative density

No data available

Density

Value	0,872 - 0,875	g/cm ³
Reference temperature	20	°C
Method	ISO 2811	
Source	supplier	

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	ethyl (S)-2-hydroxypropionate	687-47-8	211-694-1
	log Pow	0,31	
	Reference temperature	20	°C
	Method	QSAR	
	Source	ECHA	

Viscosity

Value	4,2 - 4,5	mPa*s
Reference temperature	20	°C
Source	supplier	

Particle characteristics

No data available

9.2 Other information**Other information**

No data available.

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

strong oxidizing agents; strong acids; strong bases

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**

Trade name: 70000-00141, ink, black

Product no.: 70000-00141

Current version : 1.0.0, issued: 04.11.2021

Replaced version: -, issued: -

Region: IE

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	C. I. Solvent Black 29 (Reaction mass of Sodium or ammonium [1-((E)-[2-(hydroxy-kO)-4-nitrophenyl]diazenyl)naphthalen-2-olato(2-)-kO][3-((E)-[2-(hydroxy-kO)-5-nitrophenyl]diazenyl)naphthalen-2-olato(2-)-kO]chromate(1-) and Sodium or ammonium [3-((E)-[2-(hydroxy-kO)-5-(2-methylbutan-2-yl)-3-nitrophenyl]diazenyl)naphthalen-2-olato(2-)-kO][1-((E)-[2-(hydroxy-kO)-5-nitrophenyl]diazenyl)naphthalen-2-olato(2-)-kO]chromate(1-) and Sodium or ammonium [3-((E)-[2-(hydroxy-kO)-5-(2-methylbutan-2-yl)-3-nitrophenyl]diazenyl)naphthalen-2-olato(2-)-kO][1-((E)-[2-(hydroxy-kO)-4-nitrophenyl]diazenyl)naphthalen-2-olato(2-)-kO]chromate(1-) and Sodium or ammonium [1-((E)-[2-(hydroxy-kO)-5-nitrophenyl]diazenyl)naphthalen-2-olato(2-)-kO][3-((E)-[2-(hydroxy-kO)-5-nitrophenyl]diazenyl)naphthalen-2-olato(2-)-kO]chromate(1-) and Sodium or ammonium [1-((E)-[2-(hydroxy-kO)-4-nitrophenyl]diazenyl)naphthalen-2-olato(2-)-kO][3-((E)-[2-(hydroxy-kO)-4-nitrophenyl]diazenyl)naphthalen-2-olato(2-)-kO]chromate(1-) and Sodium or ammonium [1-((E)-[2-(hydroxy-kO)-5-(2-methylbutan-2-yl)-3-nitrophenyl]diazenyl)naphthalen-2-olato(2-)-kO][3-((Z)-[2-(hydroxy-kO)-5-(2-methylbutan-2-yl)-3-nitrophenyl]diazenyl)naphthalen-2-olato(2-)-kO]chromate(1-))	1029600-34-7	700-174-4
LD50		2000	mg/kg bodyweight
Species	rat		
Source	OECD 401		
3	ethyl (S)-2-hydroxypropionate	687-47-8	211-694-1
LD50		2000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

Acute dermal toxicity

No data available

Acute inhalational toxicity

No	Substance name	CAS no.	EC no.
1	ethyl (S)-2-hydroxypropionate	687-47-8	211-694-1
LC50		5,4	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.		

Skin corrosion/irritation

No	Substance name	CAS no.	EC no.
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Trade name: 70000-00141, ink, black**Product no.:** 70000-00141**Current version :** 1.0.0, issued: 04.11.2021**Replaced version:** -, issued: -**Region:** IE

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		
2	ethyl (S)-2-hydroxypropionate	687-47-8	211-694-1
Species	rabbit		
Method	OECD 404		
Source	ECHA		
Evaluation	non-irritant		

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	ethyl (S)-2-hydroxypropionate	687-47-8	211-694-1
Source	ECHA		
Evaluation	Irreversible effects on the eye		

Respiratory or skin sensitisation			
No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
Route of exposure	Skin		
Species	guinea pig		
Method	OECD 406		
Source	ECHA		
Evaluation	non-sensitizing		
2	ethyl (S)-2-hydroxypropionate	687-47-8	211-694-1
Route of exposure	Skin		
Species	mouse		
Method	OECD 429		
Source	ECHA		
Evaluation	non-sensitizing		

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		
Method	OECD 474		
Source	ECHA		

Trade name: 70000-00141, ink, black

Product no.: 70000-00141

Current version : 1.0.0, issued: 04.11.2021

Replaced version: -, issued: -

Region: IE

Evaluation/classification	Based on available data, the classification criteria are not met.
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Reproduction toxicity			
No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
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.	
2	ethyl (S)-2-hydroxypropionate	687-47-8	211-694-1
Source		ECHA	
Evaluation/classification		Based on 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.	

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	ethyl (S)-2-hydroxypropionate	687-47-8	211-694-1
Route of exposure		inhalational	
Species		rat	
Method		OECD 412	
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

Toxicity to fish (acute)			
No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
LC50		2993	mg/l
Duration of exposure		96	h
Species		Pimephales promelas	
Method		OECD 203	
Source		ECHA	
2	ethyl (S)-2-hydroxypropionate	687-47-8	211-694-1

Trade name: 70000-00141, ink, black

Product no.: 70000-00141

Current version : 1.0.0, issued: 04.11.2021

Replaced version: -, issued: -

Region: IE

LC50	320	mg/l
Duration of exposure	96	h
Species	Danio rerio	
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	ethyl (S)-2-hydroxypropionate	687-47-8	211-694-1
EC50	683	mg/l	
Duration of exposure	48	h	
Species	Daphnia magna		
Method	OECD 202		
Source	ECHA		

Toxicity to Daphnia (chronic)

No data available

Toxicity to algae (acute)

No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0
EC50	2029	mg/l	
Duration of exposure	96	h	
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		
2	ethyl (S)-2-hydroxypropionate	687-47-8	211-694-1
EC50	3500	mg/l	
Duration of exposure	72	h	
Species	Pseudokirchneriella subcapitata		
Method	OECD 201		
Source	ECHA		

Toxicity to algae (chronic)

No	Substance name	CAS no.	EC no.
1	C. I. Solvent Black 29 (Reaction mass of Sodium or ammonium [1-((E)-[2-(hydroxy-kO)-4-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO][3-((E)-[2-(hydroxy-kO)-5-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO]chromate(1-) and Sodium or ammonium [3-((E)-[2-(hydroxy-kO)-5-(2-methylbutan-2-yl)-3-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO][1-((E)-[2-(hydroxy-kO)-5-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO]chromate(1-) and Sodium or ammonium [3-((E)-[2-(hydroxy-kO)-5-(2-methylbutan-2-yl)-3-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO][1-((E)-[2-(hydroxy-kO)-4-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO]chromate(1-) and Sodium or ammonium [1-((E)-[2-(hydroxy-kO)-5-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO][3-((E)-[2-(hydroxy-kO)-5-	1029600-34-7	700-174-4

Trade name: 70000-00141, ink, black

Product no.: 70000-00141

Current version : 1.0.0, issued: 04.11.2021

Replaced version: -, issued: -

Region: IE

nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO]chromate(1-) and Sodium or ammonium [1-((E)-[2-(hydroxy-kO)-4-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO][3-((E)-[2-(hydroxy-kO)-4-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO]chromate(1-) and Sodium or ammonium [1-((E)-[2-(hydroxy-kO)-5-(2-methylbutan-2-yl)-3-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO][3-((Z)-[2-(hydroxy-kO)-5-(2-methylbutan-2-yl)-3-nitrophenyl]diazanyl)naphthalen-2-olato(2-)-kO]chromate(1-))			
NOEC		0,32	mg/l
Duration of exposure		72	h
Species	Desmodesmus subspicatus		
Method	EU C.3		
Source	ECHA		

Bacteria toxicity			
No	Substance name	CAS no.	EC no.
1	ethyl (S)-2-hydroxypropionate	687-47-8	211-694-1
EC50		>	1000 mg/l
Duration of exposure		3	h
Species	activated sludge		
Method	OECD 209		
Source	ECHA		

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	ethyl (S)-2-hydroxypropionate	687-47-8	211-694-1
Type	aerobic biodegradation		
Method	QSAR		
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	ethyl (S)-2-hydroxypropionate	687-47-8	211-694-1
log Pow		0,31	
Reference temperature		20	°C
Method	QSAR		
Source	ECHA		

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

Trade name: 70000-00141, ink, black**Product no.:** 70000-00141**Current version :** 1.0.0, issued: 04.11.2021**Replaced version:** -, issued: -**Region:** IE**Results of PBT and vPvB assessment**

PBT assessment	The components of this product are not considered to be a PBT.
vPvB assessment	The components of this product are not considered to be a 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 Transport ADR/RID/ADN**

Class	3
Classification code	F1
Packing group	II
Hazard identification no.	33
UN number	UN1210
Proper shipping name	PRINTING INK
Special Provision 640	640C
Tunnel restriction code	D/E
Label	3

14.2 Transport IMDG

Class	3
Packing group	II
UN number	UN1210
Proper shipping name	PRINTING INK
EmS	F-E, S-D
Label	3

14.3 Transport ICAO-TI / IATA

Class	3
Packing group	II
UN number	UN1210
Proper shipping name	Printing ink
Label	3

14.4 Other information

No data available.

14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

Trade name: 70000-00141, ink, black

Product no.: 70000-00141

Current version : 1.0.0, issued: 04.11.2021

Replaced version: -, issued: -

Region: IE

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
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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
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Other regulations

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

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:**

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)

H226	Flammable liquid and vapour.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.

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.

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EU safety data sheet



Trade name: 70000-00141, ink, black

Product no.: 70000-00141

Current version : 1.0.0, issued: 04.11.2021

Replaced version: -, issued: -

Region: IE

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