

Trade name: 70000-00126, ink, black

Current version : 1.0.1, issued: 24.07.2023

Replaced version: 1.0.0, issued: 26.04.2023

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:

CKN2-70PD-H002-EPPM

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

Daimlerstasse 14

78532 Tuttingen

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

Repr. 1B; H360D

Skin Sens. 1; H317

STOT SE 3; H336

Classification information

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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



GHS07



GHS08

Signal word

Danger

Hazardous component(s) to be indicated on label:

butanone

Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-)

Hazard statement(s)

H225 Highly flammable liquid and vapour.
H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H360D May damage the unborn child.

Hazard statements (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statement(s)

P201 Obtain special instructions before use.
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.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P370+P378 In case of fire: Use sand, fire powder, carbon dioxide or foam to extinguish.

UFI:

CKN2-70PD-H002-EPPM

Supplemental label elements

"Restricted to professional users"

Labelling information

Alternative indication of the hazard-determining components for labelling:

butanone
Solvent Black 27

2.3 Other hazards

PBT assessment

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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**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		
	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	ethanol		
	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	Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-)		
	- 939-191-9 - 01-2120764854-42	Skin Sens. 1B; H317 Repr. 1B; H360D STOT RE 2; H373	>= 5,00 - < 10,00 wt%
4	isopropyl acetate		
	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%	-	-
4	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)".

3.3 Other information

Other known names for components in the present mixture:

EG 939-191-9: Solvent Black 27

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

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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, 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

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

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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

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 ³	200 ml/m ³
	Ceiling Limit	1(I)	
	Skin resorption / sensibilisation	H	
	Notes	Y	
	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
2	ethanol	64-17-5	200-578-6
	TRGS 900		
	Ethanol		
	WEL long-term (8-hr TWA reference period)	380 mg/m ³	200 ml/m ³
	Ceiling Limit	4 (II)	
	Notes	Y	

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3	Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-)	939-191-9
2004/37/EC		
Chromium (VI) compounds		
	WEL long-term (8-hr TWA reference period)	0,005 mg/m ³
	Comments	Limit value 0,010 mg/m ³ until 17 January 2025 Limit value: 0,025 mg/m ³ for welding or plasma cutting processes or similar work processes that generate fume until 17 January 2025

Biological limit values

No	Substance name
1	butanone
	TRGS 903
	2-Butanon (Methylethylketon)
	parameter
	Value
	Comments
	sample material
	Sampling moment

DNEL, DMEL and PNEC values

DNEL values (worker)

No	Substance name	CAS / EC no
1	butanone	78-93-3 201-159-0
	dermal	1161 mg/kg/day
	inhalative	600 mg/m ³
	inhalative	900 mg/m ³
2	ethanol	64-17-5 200-578-6
	dermal	8238 mg/kg/day
	inhalative	380 mg/m ³
3	Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-)	- 939-191-9
	dermal	0,02 mg/kg/day
	inhalative	0,12 mg/m ³
4	isopropyl acetate	108-21-4 203-561-1
	dermal	27 mg/kg/day
	inhalative	558 mg/m ³
	inhalative	275 mg/m ³
	inhalative	227 mg/m ³

DNEL value (consumer)

No	Substance name	CAS / EC no
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	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/m ³
	inhalative	Short term (acut)	systemic	450 mg/m ³
2	ethanol			64-17-5 200-578-6
	inhalative	Long term (chronic)	systemic	114 mg/m ³
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/m ³
	inhalative	Short term (acut)	systemic	335 mg/m ³
	inhalative	Long term (chronic)	local	136 mg/cm ²

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	Aqua intermittent	2,75 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	-	0,38 g/kg
		with reference to: food	
2	Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]-[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-)		- 939-191-9
	water	fresh water	0,1 mg/L
	water	Aqua intermittent	1 mg/L
	water	fresh water sediment	70,5 mg/kg dry weight
	water	marine water	0,01 mg/L
	water	marine water sediment	7,05 mg/kg dry weight
	soil	-	14 mg/kg
	sewage treatment plant	-	100 mg/L
3	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

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Flammability			
No data available			
Lower explosion limit			
Value		1,8	% vol
Source	supplier		
Upper explosion limit			
Value		15	% vol
Source	supplier		
Vapour pressure			
No data available			
Relative vapour density			
No data available			
Relative density			
No data available			
Density			
Value		0,87	g/cm ³
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	Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-)	-	939-191-9
	log Pow	3,00	- 3,80
	Reference temperature		20 °C
	Method	OECD 105	
	Source	ECHA	
Kinematic viscosity			
Value	appr.	6	mPa*s
Source	supplier		
Solvent content			

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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.

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	Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-)	-	939-191-9
LD50		> 10000	mg/kg bodyweight
Species	rat		
Method	OECD 401		

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Source	ECHA
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Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
1	Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-)	-	939-191-9
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
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.		

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		
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.		
3	Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-)	-	939-191-9
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		

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Method	OECD 405
Source	ECHA
Evaluation	irritant
2	ethanol 64-17-5 200-578-6
Species	rabbit
Method	OECD 405
Source	ECHA
Evaluation	irritant
Evaluation/classification	Based on available data, the classification criteria are met.
3	Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) - 939-191-9
Species	rabbit
Method	OECD 405
Source	ECHA
Evaluation	non-irritant

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	ethanol	64-17-5	200-578-6
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	Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-)	-	939-191-9
Route of exposure		Skin	
Species		mouse	
Method		OECD 429	
Source		ECHA	
Evaluation		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	

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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
Evaluation/classification	Based on available data, the classification criteria are not met.

2	ethanol	64-17-5	200-578-6
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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.

3	Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-)	-	939-191-9
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Method	OECD 471
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.

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	ethanol	64-17-5	200-578-6
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Route of exposure	oral
NOAEL	
Type of examination	2 generation study

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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.
3	Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-)
Route of exposure	oral
NOAEL	5 mg/kg bw/d
Species	rat
Method	OECD 422
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are 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.	

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.	

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3	Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-)	-	939-191-9
Route of exposure	oral		
NOAEL		15	mg/kg bw/d
Species	rat		
Target organ	whole body		
Method	OECD 422		
Source	ECHA		
Effects	May cause damage to organs through prolonged or repeated exposure		
Evaluation/classification	Based on available data, the classification criteria are 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		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	Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-)	-	939-191-9
LC50		>	100
Duration of exposure		96	h
Species	Danio rerio		
Method	OECD 203		
Source	ECHA		

Trade name: 70000-00126, ink, black

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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	Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-)	-	939-191-9
EC50		>	100 mg/l
Duration of exposure		48	h
Species	Daphnia magna		
Method	OECD 202		
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			

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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	Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-)	-	939-191-9
Value		3	%
Duration		28	day(s)
Method		OECD 301 B	
Source		ECHA	
Evaluation		not 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	Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-)	-	939-191-9
log Pow		3,00	- 3,80
Reference temperature		20	°C
Method		OECD 105	
Source		ECHA	

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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.

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

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No data available.

14.5 Environmental hazards

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

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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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
3	Reaction mass of Amines, C10-14-branched and linear alkyl, [1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-) and Amines, C10-14-branched and linear alkyl, bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-)	-	939-191-9	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
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Other regulations

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

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

Class

2

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

