

**Trade name:** BT10441, ink, black**Current version :** 1.0.0, issued: 16.06.2021**Replaced version:** -, issued: -**Region:** IE**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier****Trade name****BT10441, ink, black****UFI:****A385-003R-T00A-WHYP****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 &amp; 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)**

Eye Irrit. 2; H319

Flam. Liq. 2; H225

Repr. 1B; H360D

Skin Sens. 1; H317

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



GHS07



GHS08

**Signal word**

Danger

Trade name: BT10441, ink, black

Current version : 1.0.0, issued: 16.06.2021

Replaced version: -, issued: -

Region: IE

**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-)

Reaction mass of Chromate(1-), [N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthalenyl]acetamidato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, hydrogen, compd. with N-cyclohexylcyclohexanamine (1:1) and hydrogen bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-), compound with dicyclohexylamine (1:1) and hydrogen bis[N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthyl]acetamidato(2-)]chromate(1-), compound with dicyclohexylamine (1:1)

**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:**

A385-003R-T00A-WHYP

**Supplemental label elements**

"Restricted to professional users"

**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****Chemical characterization**

Mixture based on: Resins; Cellulose nitrate; dyes

**Hazardous ingredients**

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

Trade name: BT10441, ink, black

Current version : 1.0.0, issued: 16.06.2021

Replaced version: -, issued: -

Region: IE

	78-93-3 201-159-0 606-002-00-3 01-2119457290-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 EUH066	>= 70,00 - < 90,00	wt%
2	<b>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-)</b>			
	- 939-191-9 - 01-2120764854-42	Skin Sens. 1B; H317 Repr. 1B; H360D STOT RE 2; H373	>= 5,00 - < 10,00	wt%
3	<b>Reaction mass of Chromate(1-), [N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthalenyl]acetamidato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, hydrogen, compd. with N-cyclohexylcyclohexanamine (1:1) and hydrogen bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphtholato(2-)]chromate(1-) , compound with dicyclohexylamine (1:1) and hydrogen bis[N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthyl]acetamidato(2-)]chromate(1-) , compound with dicyclohexylamine (1:1)</b>			
	- 916-865-0 - 01-2120768429-39	Repr. 1B; H360	<= 0,30	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. 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

Rinse hands with plenty of cold or tepid water and soap.

#### After eye contact

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

#### After ingestion

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

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

No data available.

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

No data available.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

#### Suitable extinguishing media

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

**Trade name:** BT10441, ink, black**Current version :** 1.0.0, issued: 16.06.2021**Replaced version:** -, issued: -**Region:** IE**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); Nitrogen oxides (NO<sub>x</sub>); chromium compounds**5.3 Advice for firefighters**

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

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

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

**For emergency responders**

Personal protective equipment (PPE) - see section 8.

**6.2 Environmental precautions**

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

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

Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see section 13).

**6.4 Reference to other sections**

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

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

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

**General protective and hygiene measures**

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

**Advice on protection against fire and explosion**

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

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

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

**Recommended storage temperature**

Value 10 - 25 °C

**Requirements for storage rooms and vessels**

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

**Incompatible products**

Substances to be avoided, see section 10.

**7.3 Specific end use(s)**

Trade name: BT10441, ink, black

Current version : 1.0.0, issued: 16.06.2021

Replaced version: -, issued: -

Region: IE

**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
	2000/39/EC		
	Butanone		
	WEL short-term (15 min reference period)	900	mg/m <sup>3</sup> 300 ppm
	WEL long-term (8-hr TWA reference period)	600	mg/m <sup>3</sup> 200 ppm
	<b>List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)</b>		
	Methyl ethyl ketone		
	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
	Comments	Sk, IOELV	
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
	<b>List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)</b>		
	Chromium(VI)compounds(as Cr) Water Soluble		
	WEL long-term (8-hr TWA reference period)	0,05	mg/m <sup>3</sup>
	Comments	Carc.1B	
	<b>List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)</b>		
	Chromium(VI)compounds(as Cr) Water Soluble		
	WEL long-term (8-hr TWA reference period)	0,01	mg/m <sup>3</sup>
	Comments	Carc.1B	
3	Reaction mass of Chromate(1-), [N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthalenyl]acetamidato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, hydrogen, compd. with N-cyclohexylcyclohexanamine (1:1) and hydrogen bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalolato(2-)]chromate(1-) , compound with dicyclohexylamine (1:1) and hydrogen bis[N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthyl]acetamidato(2-)]chromate(1-) , compound with dicyclohexylamine (1:1)		916-865-0
	<b>List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)</b>		
	Chromium(VI)compounds(as Cr) Water Soluble		
	WEL long-term (8-hr TWA reference period)	0,05	mg/m <sup>3</sup>
	Comments	Carc.1B	
	<b>List of Chemical Agents and Occupational Exposure Limit Values (Code of Practice)</b>		
	Chromium(VI)compounds(as Cr) Water Soluble		
	WEL long-term (8-hr TWA reference period)	0,01	mg/m <sup>3</sup>
	Comments	Carc.1B	

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

Trade name: BT10441, ink, black

Current version : 1.0.0, issued: 16.06.2021

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	
	dermal	Long term (chronic)	systemic	1161	mg/kg/day
	inhalative	Long term (chronic)	systemic	600,00	mg/m <sup>3</sup>
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	
	dermal	Long term (chronic)	systemic	0,02	mg/kg/day
	inhalative	Long term (chronic)	systemic	0,12	mg/m <sup>3</sup>
3	Reaction mass of Chromate(1-), [N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthalenyl]acetamidato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, hydrogen, compd. with N-cyclohexylcyclohexanamine (1:1) and hydrogen bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-), compound with dicyclohexylamine (1:1) and hydrogen bis[N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthyl]acetamidato(2-)]chromate(1-), compound with dicyclohexylamine (1:1)			- 916-865-0	
	dermal	Long term (chronic)	systemic	0,083	mg/kg/day
	inhalative	Long term (chronic)	systemic	0,588	mg/m <sup>3</sup>

**DNEL value (consumer)**

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/m <sup>3</sup>
2	Reaction mass of Chromate(1-), [N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthalenyl]acetamidato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, hydrogen, compd. with N-cyclohexylcyclohexanamine (1:1) and hydrogen bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-), compound with dicyclohexylamine (1:1) and hydrogen bis[N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthyl]acetamidato(2-)]chromate(1-), compound with dicyclohexylamine (1:1)			- 916-865-0	
	oral	Long term (chronic)	systemic	0,042	mg/kg/day
	dermal	Long term (chronic)	systemic	0,042	mg/kg/day
	inhalative	Long term (chronic)	systemic	0,145	mg/m <sup>3</sup>

**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			

Trade name: BT10441, ink, black

Current version : 1.0.0, issued: 16.06.2021

Replaced version: -, issued: -

Region: IE

	sewage treatment plant	-	709	mg/L
	secondary poisoning	-	1000	mg/kg
	with reference to: food			
2	<b>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-)</b>		<b>- 939-191-9</b>	
	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

## 8.2 Exposure controls

### Appropriate engineering controls

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

### Personal protective equipment

#### Respiratory protection

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

Respirator Filter A2

#### Eye / face protection

Tightly fitting safety glasses (EN 166).

#### Hand protection

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

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

#### Other

Normal chemical work clothing.

#### Environmental exposure controls

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

<b>State of aggregation</b>	liquid
<b>Form/Colour</b>	black
<b>Odour</b>	

Trade name: BT10441, ink, black

Current version : 1.0.0, issued: 16.06.2021

Replaced version: -, issued: -

Region: IE

ketone-like			
<b>pH value</b>			
No data available			
<b>Boiling point / boiling range</b>			
No data available			
<b>Melting point/freezing point</b>			
No data available			
<b>Decomposition temperature</b>			
No data available			
<b>Flash point</b>			
Value		-7,6	°C
Source	supplier		
<b>Ignition temperature</b>			
Value		505	°C
Source	supplier		
<b>Flammability</b>			
No data available			
<b>Lower explosion limit</b>			
Value		1,8	% vol
Source	supplier		
<b>Upper explosion limit</b>			
Value		11,5	% (m)
Source	supplier		
<b>Vapour pressure</b>			
No data available			
<b>Relative vapour density</b>			
No data available			
<b>Relative density</b>			
No data available			
<b>Density</b>			
Value		0,9	g/cm <sup>3</sup>
Source	supplier		
<b>Solubility</b>			
No data available			
<b>Partition coefficient n-octanol/water (log value)</b>			
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	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

Trade name: BT10441, ink, black

Current version : 1.0.0, issued: 16.06.2021

Replaced version: -, issued: -

Region: IE

Reference temperature	20	°C
Method	OECD 105	
Source	ECHA	
<b>3</b>	<b>Reaction mass of Chromate(1-), [N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthalenyl]acetamidato(2-)]-[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, hydrogen, compd. with N-cyclohexylcyclohexanamine (1:1) and hydrogen bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphtholato(2-)]chromate(1-), compound with dicyclohexylamine (1:1) and hydrogen bis[N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthyl]acetamidato(2-)]chromate(1-), compound with dicyclohexylamine (1:1)</b>	<b>916-865-0</b>
log Pow	3,3	- 4,2
Reference temperature	20	°C
Method	OECD 105	
Source	ECHA	

<b>Viscosity</b>		
Value	appr. 6	mPa*s
Source	supplier	

<b>Solvent content</b>		
Value	75	%

<b>Solids content</b>		
Value	25	%

<b>Particle characteristics</b>		
No data available		

## 9.2 Other information

<b>Other information</b>		
VOC: 75 %		

## 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

### 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

<b>Acute oral toxicity</b>			
No	Substance name	CAS no.	EC no.
1	butanone	78-93-3	201-159-0

Trade name: BT10441, ink, black

Current version : 1.0.0, issued: 16.06.2021

Replaced version: -, issued: -

Region: IE

LD50		2054	mg/kg bodyweight
Species	rat		
Method	OECD 423		
Source	ECHA / Read across		
<b>2</b>	<b>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-)</b>	-	<b>939-191-9</b>
LD50	>	10000	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		
<b>3</b>	<b>Reaction mass of Chromate(1-), [N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthalenyl]acetamidato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, hydrogen, compd. with N-cyclohexylcyclohexanamine (1:1) and hydrogen bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalolato(2-)]chromate(1-) , compound with dicyclohexylamine (1:1) and hydrogen bis[N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthyl]acetamidato(2-)]chromate(1-) , compound with dicyclohexylamine (1:1)</b>	-	<b>916-865-0</b>
LD50		3250	mg/kg bodyweight
Species	rat		
Method	OECD 401		
Source	ECHA		

Acute dermal toxicity			
No	Substance name	CAS no.	EC no.
<b>1</b>	<b>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-)</b>	-	<b>939-191-9</b>
LD50	>	2000	mg/kg bodyweight
Species	rat		
Method	OECD 402		
Source	ECHA		
<b>2</b>	<b>Reaction mass of Chromate(1-), [N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthalenyl]acetamidato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, hydrogen, compd. with N-cyclohexylcyclohexanamine (1:1) and hydrogen bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalolato(2-)]chromate(1-) , compound with dicyclohexylamine (1:1) and hydrogen bis[N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthyl]acetamidato(2-)]chromate(1-) , compound with dicyclohexylamine (1:1)</b>	-	<b>916-865-0</b>
LD50	>	2000	mg/kg bodyweight
Species	rat		

Trade name: BT10441, ink, black

Current version : 1.0.0, issued: 16.06.2021

Replaced version: -, issued: -

Region: IE

Method	OECD 402
Source	ECHA

<b>Acute inhalational toxicity</b>
No data available

**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	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	

3	Reaction mass of Chromate(1-), [N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthalenyl]acetamidato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, hydrogen, compd. with N-cyclohexylcyclohexanamine (1:1) and hydrogen bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-), compound with dicyclohexylamine (1:1) and hydrogen bis[N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthyl]acetamidato(2-)]chromate(1-), compound with dicyclohexylamine (1:1)	-	916-865-0
---	--	---	-----------

Species	rabbit	
Source	ECHA	
Evaluation/classification	Based on available data, the classification criteria are not met.	

**Serious eye damage/irritation**

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

Species	rabbit	
Method	OECD 405	
Source	ECHA	
Evaluation	irritant	

2	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	

Trade name: BT10441, ink, black

Current version : 1.0.0, issued: 16.06.2021

Replaced version: -, issued: -

Region: IE

Evaluation		non-irritant	
<b>3</b>	<b>Reaction mass of Chromate(1-), [N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthalenyl]acetamidato(2-)]-[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, hydrogen, compd. with N-cyclohexylcyclohexanamine (1:1) and hydrogen bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphtholato(2-)]chromate(1-), compound with dicyclohexylamine (1:1) and hydrogen bis[N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthyl]acetamidato(2-)]chromate(1-), compound with dicyclohexylamine (1:1)</b>	-	<b>916-865-0</b>
Species		rabbit	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>Respiratory or skin sensitisation</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<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	
<b>2</b>	<b>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-)</b>	-	<b>939-191-9</b>
Route of exposure		Skin	
Species		mouse	
Method		OECD 429	
Source		ECHA	
Evaluation		sensitizing	
<b>3</b>	<b>Reaction mass of Chromate(1-), [N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthalenyl]acetamidato(2-)]-[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, hydrogen, compd. with N-cyclohexylcyclohexanamine (1:1) and hydrogen bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphtholato(2-)]chromate(1-), compound with dicyclohexylamine (1:1) and hydrogen bis[N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthyl]acetamidato(2-)]chromate(1-), compound with dicyclohexylamine (1:1)</b>	-	<b>916-865-0</b>
Route of exposure		Skin	
Species		mouse	
Method		OECD 429	
Source		ECHA	
Evaluation/classification		Based on available data, the classification criteria are not met.	
<b>Germ cell mutagenicity</b>			
<b>No</b>	<b>Substance name</b>	<b>CAS no.</b>	<b>EC no.</b>
<b>1</b>	<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	

Trade name: BT10441, ink, black

Current version : 1.0.0, issued: 16.06.2021

Replaced version: -, issued: -

Region: IE

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.
<b>2</b>	<b>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-)</b> - <b>939-191-9</b>
Method	OECD 471
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>Reproduction toxicity</b>	
<b>No</b>	<b>Substance name</b> <b>CAS no.</b> <b>EC no.</b>
<b>1</b>	<b>butanone</b> <b>78-93-3</b> <b>201-159-0</b>
Route of exposure	inhalational
Type of examination	Prenatal Developmental Toxicity Study
Species	rat
Method	OECD 414
Source	ECHA
Evaluation/classification	Based on available data, the classification criteria are not met.
<b>2</b>	<b>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-)</b> - <b>939-191-9</b>
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.
<b>3</b>	<b>Reaction mass of Chromate(1-), [N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthalenyl]acetamidato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, hydrogen, compd. with N-cyclohexylcyclohexanamine (1:1) and hydrogen bis[1-[(2-hydroxy-5-nitrophenyl)azo]-</b> - <b>916-865-0</b>

Trade name: BT10441, ink, black

Current version : 1.0.0, issued: 16.06.2021

Replaced version: -, issued: -

Region: IE

<b>2-naphtholato(2-)]chromate(1-) , compound with dicyclohexylamine (1:1) and hydrogen bis[N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthyl]acetamidato(2-)]chromate(1-) , compound with dicyclohexylamine (1:1)</b>	
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.	

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	<b>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-)</b>	-	<b>939-191-9</b>
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.

Trade name: BT10441, ink, black

Current version : 1.0.0, issued: 16.06.2021

Replaced version: -, issued: -

Region: IE

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	<b>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-)</b>	-	<b>939-191-9</b>
LC50	>	100	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	<b>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-)</b>	-	<b>939-191-9</b>
EC50	>	100	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		

**Toxicity to algae (chronic)**

No data available

Trade name: BT10441, ink, black

Current version : 1.0.0, issued: 16.06.2021

Replaced version: -, issued: -

Region: IE

<b>Bacteria toxicity</b>
No data available

## 12.2 Persistence and degradability

<b>Biodegradability</b>			
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	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

<b>Partition coefficient n-octanol/water (log value)</b>			
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	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	
3	Reaction mass of Chromate(1-), [N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthalenyl]acetamidato(2-)] [1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-, hydrogen, compd. with N-cyclohexylcyclohexanamine (1:1) and hydrogen bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]chromate(1-), compound with dicyclohexylamine (1:1) and hydrogen bis[N-[7-hydroxy-8-[(2-hydroxy-5-nitrophenyl)azo]-1-naphthyl]acetamidato(2-)]chromate(1-), compound with dicyclohexylamine (1:1)	-	916-865-0

**Trade name:** BT10441, ink, black

**Current version :** 1.0.0, issued: 16.06.2021

**Replaced version:** -, issued: -

**Region:** IE

log Pow	3,3	-	4,2	
Reference temperature			20	°C
Method	OECD 105			
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.

## 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

Trade name: BT10441, ink, black

Current version : 1.0.0, issued: 16.06.2021

Replaced version: -, issued: -

Region: IE

Proper shipping name Label	Printing ink 3
-------------------------------	-------------------

**14.4 Other information**

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
--	----------

**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.

**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)**

H360 May damage fertility or the unborn child

H373 May cause damage to organs through prolonged or repeated exposure

**Creation of the safety data sheet**

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

This information is based on our present knowledge and experience.

# EU safety data sheet



---

**Trade name:** BT10441, ink, black

**Current version :** 1.0.0, issued: 16.06.2021

**Replaced version:** -, issued: -

**Region:** IE

---

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.

Document protected by copyright. Alterations or reproductions require the express written permission of UMCO GmbH.  
Prod-ID 777349