

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name : 70000-00030 Ink, black
 Use of the substance/preparation: Ink for industrial ink jet printers (CIJ-printers)
 Supplier : Paul Leibinger GmbH & Co. KG
 Daimlerstr. 14
 78532 Tuttlingen
 Germany
 Phone: +49 7461 92 86-0 Fax: +49 7461 92 86-199
 www.leibinger-group.com

2. HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
Flam. Liq. 2	H225	
Eye Irrit. 2	H31	
Aquatic Chronic 4	H413	

2.2. Label elements

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



Signal word: Danger

Hazard statements for physical hazards

H225 Highly flammable liquid and vapour.

Hazard statements for health hazards

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Hazard statements for environmental hazards

H413 May cause long lasting harmful effects to aquatic life.

Precautionary Statements

Prevention

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P233 Keep container tightly closed.

P243 Take precautionary measures against static discharge.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P303 + P361 + P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P337 + P313 If eye irritation persists: Get medical advice/attention.

Storage

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Hazardous ingredients for labeling

butanone,

Reaction mass of: tert-alkyl(C12-C14)ammonium bis[1-[(2-hydroxy-5-nitrophenyl)azo]-2-naphthalenolato(2-)]-chromate(1-); tert-alkyl(C12-C14)ammonium bis[1-[(2-hydroxy-4-nitrophenyl)azo]-2-naphthalenolato(2-)]-chromate(1-); tert-alkyl(C12-C14)ammonium bis

Supplemental Hazard information (EU)

Physical properties: In use may form flammable/explosive vapour-air mixture.

Health properties: Repeated exposure may cause skin dryness or cracking.

2.3. Other hazards

Adverse physicochemical effects

In the case of insufficient ventilation and/or through the formation of a explosive/highly flammable mixture is possible.

Adverse human health effects and symptoms

Prolonged/repetitive skin contact may cause skin defatting or dermatitis.

Information pertaining to special dangers for human and environment

In use, may form flammable/explosive vapour-air mixture.

3. COMPOSITION / INFORMATION ON INGREDIENTS

3.1. Substances

not applicable

3.2. Mixtures

Hazardous ingredients (Classification according to 67/548/EEC)

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
78-93-3	201-159-0	Butanone	74-83	Flam. Liq. 2, H225 Eye Irrit. 2, H319 / STOT SE 3, H336
117527-94-3	403-720-7	reaction mass of: tert-alkyl(C12-C14) ammonium bis[1-[(2-hydroxy-5- nitrophenyl)azo]-2-naphthalenolato(2-)]- chromate(1-); tert-alkyl(C12-C14) ammonium bis[1-[(2-hydroxy-4- nitrophenyl)azo]-2-naphthalenolato(2-)]- chromate(1-); tert-alkyl(C12-C14) ammonium bis	3-6	Aquatic Chronic 2, H411

4. FIRST AID MEASURES

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.

In the event of persistent symptoms receive medical treatment.

Take affected person into fresh air.

Take away from danger area and lay down affected person. In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

In case of inhalation

Ensure of fresh air.

In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off with soap and water.

Consult a doctor if skin irritation persists.

In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

In case of ingestion

Refer to medical treatment.

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

Physician's information / possible symptoms

In case of inhalation of plenty of solvent-containing fumes the following symptoms may occur:

Unconsciousness

Depression of central nervous system

Confusion

Physician's information / possible dangers

In case of severe poisoning depressions of central nervous system, hypotension, bradycardia and hypothermia may occur.

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

No information available.

5. FIRE-FIGHTING MEASURES

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam

Dry powder, ABC powder

Carbon dioxide

Water spray jet

5.2. Special hazards arising from the substance or mixture

Nitrogen gases (NO_x)

Carbon monoxide (CO)

Carbon dioxide (CO₂)

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

Additional information

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ensure adequate ventilation.

Use personal protective clothing.

Keep away sources of ignition.

6.2. Environmental precautions

Do not discharge into the drains or bodies of water..

Do not seep away runed out product into ground or body of water.

Do not discharge into the subsoil/soil.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, kieselguhr, acid binder, general-purpose binder, sawdust).

Additional Information

Informations for disposal see chapter 13.

6.4. Reference to other sections

No information available.

7. HANDLING AND STORAGE

7.1. Precautions for safe handling

Advice on safe handling

Take measures against electrostatically charging.

Provide good room ventilation even at ground level (vapours are heavier than air).

Take the usual precautions when handling with chemicals.

General protective measures

Do not inhale vapours.

Avoid contact with the skin.

Hygiene measures

Do not eat or drink when working.

Remove soaked clothing immediately.

After work wash thoroughly.

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking

The product is easy combustible.

Take precautionary measures against static discharges.

Formation of explosive gas mixtures in air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep in closed original container.

Ventilate store-rooms thoroughly.

Advice on storage compatibility

Do not store together with food.

Do not store together with oxidizing agents.

Store at cool and aired place and at distance to acids and alkalies.

Further information on storage conditions

Keep container tightly closed and store at cool and aired place.

Protect from light.

Do not keep long-term to heat.

Storage temperature between 10°C to 30°C (=50°F to 86°F).

Keep in a cool place, heat causes increase in pressure and risk of bursting.

7.3. Specific end use(s)

Ink for industrial InkJet-printers.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Control parameters

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2006/15/EC or 2009/161/EU)

CAS No	Name	Code	[mg/m ³]	[ppm]	Remark
78-93-3	Butanone	8 hours	600	200	
		Short-term	900	300	

8.2. Exposure controls

Respiratory protection

Breathing apparatus in the event of high concentrations.

Hand protection

Gloves (solvent-resistant)

Not suitable: PVC gloves

Eye protection

tightly fitting goggles

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance	Colour	Odour
Liquid	black	like ketone

Odour threshold

No information available.

Important health, safety and environmental information

	Value	Temperature at	Method	Remark
pH value	No information available.			
starts to boil	> 78 °C			
Melting point / Freezing point	No information available.			
Flash point	-4.0 °C		ASTM D 93	
Vapourisation rate	No information available			
Flammable (solid)	No information available.			
Flammability (gas)	No information available.			
Ignition temperature	> 300 °C			(information concern solvent)
Self ignition temperature	No information available.			
Lower explosion limit	1,8Vol-%			(information concern solvent)
Upper explosion limit	12 Vol-%			(information concern solvent)
Vapour pressure	< 110 kPa	50 °C		
Relative density	0,85 - 0,89 g/cm ³	20 °C		
Vapour density	No information available.			
Solubility in water	Forms colloidal solution			
Decomposition temperature	No information available.			
Viscosity dynamic	3 - 6 mPa*s	20 °C		

Oxidising properties

No information available.

Explosive properties

No information available.

9.2. Other information

Vapours are heavier than air.

flammable liquid

10. STABILITY AND REACTIVITY

10.1. Reactivity

No information available.

10.2. Chemical stability

No information available.

10.3. Possibility of hazardous reactions

No information available.

10.4. Conditions to avoid

Reactions with acids and strong oxidising agents.

Reactions with alkalis.

10.5. Incompatible materials

No information available.

10.6. Hazardous decomposition products

Carbon monoxide and carbon dioxide.

Nitrous oxides (NO_x)

Thermal decomposition

Remark: No decomposition if used as directed.

11. TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	3300 mg/kg	rat		Information concerns to main component.
LD50 acute dermal	5000 mg/kg	rabbit		
LC50 acute inhalation	36 mg/l (4 h)	rat		
Irritability eye	strong irritant			

Experiences made from practice

May be absorbed through the skin.

Experiences at humans: may cause hypersensitivity reactions on skin in case of persons suffering from hypersensitivity.

Sensitization through skin contact possible.

Has a degreasing effect on the skin.

Irritates respiratory tract.

Inhalation causes headache/nausea.

Irritates mucous membranes.

Inhalation causes narcotic effect/intoxication.

12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LC50 >100 mg/l (96 h)	rainbow trout		
Daphnia	EC50 >100 mg/l (48 h)	Daphnia magna		

12.2. Persistence and degradability

No information available.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

No information available.

12.6. Other adverse effects

General regulation

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into the ground water or aquatic environment.

Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

13. DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste code No.

08 03 12*

Name of waste

waste ink containing dangerous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

Recommendations for the product

Collect waste separated in suitable, labeled and lockable containers.

Product rests: send for disposal, e.g. special waste incineration.

Recommendations for packaging

Totally emptied packaging may be treated as household waste.

14. TRANSPORT INFORMATION

	<u>ADR/RID</u>	<u>IMDG</u>	<u>IATA-DGR</u>
14.1. UN number	1210	1210	1210
14.2. UN proper shipping name	PRINTING INK (butanone)	PRINTING INK (butanone)	Printing ink (butanone)
14.3. Transport hazard class(es)	3	3	3
14.4. Packing group	II	II	II
14.5. Environmental hazards	No	No	No

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No information available.

Land and inland navigation transport ADR/RID

Hazard label(s) 3

tunnel restriction code D/E

Special provisions 640D

Classification code F1

Transport/further information

Regulations concerning free quantities are to be observed.

15. REGULATORY INFORMATION

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC standard

VOC value: -700 g/L

15.2. Chemical Safety Assessment

No information available.

16. OTHER INFORMATION

Recommended uses and restrictions

Only for industrial usage (for industrial InkJet printers)

National and local regulations concerning chemicals shall be observed.

Further information

The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Wording of the H-phrases specified in chapter 3 (not the classification of the mixture!)

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

The information contained herein is based on the present state of our knowledge and is intended to describe our products from the point of view of safety requirements. It should not therefore be construed as guaranteeing specific properties. These products should be stored, handled, and used in conformity with any legal regulation. The information provided above is for general guidance only without responsibility, liability, and warranty on our part.