1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name : **70000-00008 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

Physico-chemical hazards: See chapter 10.

Environmental hazards: No particular hazards known.

Other hazards: none

Hazard symbols:

Highly flammable

Irritant

R-phrases:
R 11: Highly flammable.
R 36: Irritating to eyes.
R 66: Repeated exposure may cause skin dryness or cracking.
R 67: Vapours may cause drowsiness and dizziness.

3. COMPOSITION / INFORMATION ON INGREDIENTS

This product is a mixture within the meaning of GHS regulation (EC) no. 1272/2008.

Dangerous components pursuant to REACH-Directive 67/548/EEC:

Chemical name	CAS No	EC No	[% weight]	Classification
butanone	78-93-3	201-159-0	75 – 95	F; R11 / Xi; R36, R66, R67

See section 16 for the full text of the R-phrases declared above

Substances of Very High Concern - SVHC: The product contains no substance which is named in the list SVHC (Candidate List of Substances of Very High Concern for authorization).

4. FIRST AID MEASURES

General information: Change soaked clothing.

Inhalation: Ensure supply of fresh air.
In the event of symptoms seek for medical treatment.

Skin contact: In case of contact with skin wash off immediately with soap and water.
Consult a doctor if skin irritation persists.

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

Ingestion: Consult a doctor immediately.
Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.

Advice to doctor: Treat symptomatically.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Carbon dioxide., Dry powder , Water spray jet , Foam.
Extinguishing media that must not be used: Full water jet.

Special exposure hazards arising from the substance or preparation itself or combustion products:
Carbon monoxide (CO).
Not combusted hydrocarbons.

Special protective equipment for firefighters:
Use self-contained breathing apparatus.

Additional information: Cool containers at risk with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance within the local regulations.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Keep away from all sources of ignition.
Ensure adequate ventillation.
Use personal protective equipment.

Environmental precautions: Prevent spread over a wide area (e.g. by containment or oil barriers).
Do not discharge into the drains/surface waters/groundwater.

Methods for cleaning up: Take up with absorbent material (e.g. sand).
Dispose of absorbed material in accordance within the regulations.

7. HANDLING AND STORAGE

Advice on safe handling:
Use only in well-ventilated areas.

Advice on protection against fire and explosion:
Keep away from sources of ignition - refrain from smoking.
Ignitable mixtures can be formed in the empty container.
Vapours can form an explosive mixture with air.

Requirements for storage rooms and vessels:
Keep only in original container.

Advice on storage compatibility:
Do not store together with oxidizing agents.

Further information on storage conditions: Protect from heat/overheating.
Keep container in a well-ventilated place.
Keep container tightly closed.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Additional advice on system design:
Ensure adequate ventilation on workstation.

Ingredients with occupational exposure limits to be monitored: (GB)
Range [%] Substance / WEL: Workplace exposure limit
75 - < 100 Butanone / 200ppm, 600mg/m³, Sk, BmgV

Respiratory protection:
Breathing apparatus in the event of high concentrations.
Short term: filter apparatus, filter A.

Hand protection: Butyl rubber, >120 min (EN 374).
The details concerned are recommendations. Please contact the glove supplier for further information.

Eye protection: Safety glasses.

Skin protection: not applicable

General protective measures:
Avoid contact with eyes and skin.
Do not inhale vapours.
Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity of the hazardous substances handled. The resistance of these equipments to chemicals should be ascertained with the respective supplier.

Hygiene measures:
Use barrier skin cream.
Wash face and/or hands before break and end of work.
Do not eat, drink, smoke or take drugs at work.

Delimitation and monitoring of the environmental exposition:
not determined

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid
Color:	black
Odor:	characteristic
pH-value:	not applicable
pH-value [1%]:	not applicable
Boiling point [℃]:	~ 78
Flash point [℃]:	~ -4
Flammability [℃]:	514
Lower explosion limit:	1,8 Vol.-%
Upper explosion limit:	11,5 Vol.-%
Oxidizing properties:	no
Vapour pressure [kPa]:	10,5 (20℃)
Density [g/ml]:	not determined
Bulk density [kg/m³]:	not applicable
Solubility in water:	partially miscible
Partition coefficient [n-octanol/water]:	not determined
Viscosity:	not determined
Relative vapour density determined in air:	~ 2,5
Evaporation speed:	not determined
Melting point [℃]:	~ -86
Autoignition temperature [℃]:	not applicable
Decomposition temperature:	not applicable

10. STABILITY AND REACTIVITY

Hazardous reactions:
Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting. Uncleaned empty vessels may contain product gases which can form explosive mixtures with air. Reactions with strong oxidizing agents.

Hazardous decomposition products:
Flammable gases/vapours.

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity:	not determined
Acute dermal toxicity:	not determined
Acute inhalational toxicity:	not determined
Irritant effect on eye:	not determined
Irritant effect on skin:	not determined
Sensitization:	not determined
Subacute toxicity:	not determined
Chronic toxicity:	not determined
Mutagenicity:	not determined
Reproduction toxicity:	not determined
Carcinogenicity:	not determined
Experiences made in practice:	none

General remarks: Toxicological data are not available.
The product was classified on the basis of the calculation procedure of the preparation directive.

12. ECOLOGICAL INFORMATION

Fish toxicity:	not determined
Daphnia toxicity:	not determined
Behaviour in environment compartments:	not determined
Behaviour in sewage plant:	not determined
Bacteria toxicity:	not determined
Biological degradability:	not determined
COD:	not determined
BOD 5:	not determined
AOX-advice:	No dangerous components.
2006/11/EC:	yes

General information: No classification on the basis of the calculation procedure of the preparation directive.

13. DISPOSAL CONSIDERATIONS

Product: Dispose of as hazardous waste.
Disposal in an incineration plant in accordance with the regulations of the local authorities.

Contaminated packaging: Packaging that cannot be cleaned should be disposed of as for product.
Uncontaminated packaging may be taken for recycling.

Waste no. (recommended): 070304*

14. TRANSPORT INFORMATION

Land and inland navigation transport ADR/RID
UN 1210 PRINTING INK (butanone), 3, II, Special provisions 640D

Marine transport IMDG
UN 1210 PRINTING INK (butanone), 3, II

Air transport ICAO/IATA-DGR
UN 1210 Printing ink (butanone), 3, II

Transport/further informations
Regulations concerning free quantities are to be observed.

15. REGULATORY INFORMATION

Exposure scenario: not determined

Chemical safety report: not determined

Labelling: The product is classified and labelled in accordance within EC-directives.

Hazard symbol or symbols:

Highly flammable

Irritant

R-phrases:
R 11: Highly flammable.
R 36: Irritating to eyes.
R 66: Repeated exposure may cause skin dryness or cracking.
R 67: Vapours may cause drowsiness and dizziness.

S-phrases:
S 9: Keep container in a well-ventilated place.
S 16: Keep away from sources of ignition - No smoking.
S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Special labelling: not applicable

Authorisation, TITEL VII: not applicable

Restrictions, TITEL VIII: not applicable

EEC-REGULATIONS: 1967/548 (2008/58, 30. ATP/ 31. ATP); 1991/689 (2001/118); 1999/13; 2004/42; 648/2004; 1907/2006 (Reach); 1272/2008; 75/324/EWG (2008/47/EG

TRANSPORT-REGULATIONS: DOT-Classification, ADR (2009); IMDG-Code (34. Amdt.); IATA-DGR (2010).

NATIONAL REGULATIONS (GB) EH40/2005 Workplace exposure limits with amendments October 2007.
CHIP 3/ CHIP 4

16. OTHER INFORMATION

R-phrases (Chapter 03):
R 36: Irritating to eyes.
R 67: Vapours may cause drowsiness and dizziness.
R 66: Repeated exposure may cause skin dryness or cracking.
R 11: Highly flammable.

Hazard statements (Chapter 03):
EUH066 Repeated exposure may cause skin dryness or cracking.
H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.

Observe employment restrictions for people: yes
VOC (1999/13/CE): ~ 87 %

Notice to reader
The information in this SDS is based on the present state of our knowledge and on current laws. The product is not to be used for purposes other than those specified under section 1 without first obtaining written handling instructions. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. The information in this SDS is meant to be a description of the safety requirements for our product. It is not to be considered a guarantee of the product's properties.