



# SAFETY DATA SHEET

## 1. Identification

Product identifier **CNTOP Pigment Ink Black ver.R**  
Recommended use Use in accordance with supplier's recommendations.  
Recommended Restrictions Industrial Use Only  
Company Name Shenzhen Cntop Printing Equipment Co., Ltd.  
NO 322, Yuanhu Rd, Zhangbei Industrial Area. Xinlian  
Community, Longcheng street, Longgang  
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## 2. Hazards identification

GHS classification  
Physical hazards Not classified.  
Health hazards Not classified.  
Environmental hazards Not classified.  
  
GHS label elements  
Signal word None.  
Hazard symbols None.  
Hazard statement None.  
  
Precautionary statement  
Prevention None.  
Response None.  
Storage None.  
Disposal None.  
  
Supplemental information 9.9 % of the mixture consists of component(s) of unknown acute oral toxicity. 15.15 % of the mixture consists of component(s) of unknown acute dermal toxicity. 43.19 % of the mixture consists of component(s) of unknown acute inhalation toxicity. 21.69 % of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 25.69 % of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

## 3. Composition/information on ingredients

Components	CAS #	Percent
WATER	7732-18-5	45-55
hydrosoluble solvent	Trade secret	20-30
2-(2-BUTOXYETHOXY)ETHANOL	112-34-5	1 - 5
carbon black	1333-86-4	1-5

## 4. First aid measures

First aid procedures  
Inhalation If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. Call a physician if symptoms develop or persist.  
Skin Rinse skin with water/shower. Get medical attention if irritation develops and persists.  
Eye Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.  
Ingestion Rinse mouth thoroughly. Get medical advice/attention if you feel unwell.  
Most important symptoms and effects, both acute and delayed Prolonged exposure may cause chronic effects.  
Notes to physician Symptoms may be delayed.

General advice Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

## 5. Fire-fighting measures

Suitable extinguishing media Water spray. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO<sub>2</sub>).

Unsuitable extinguishing media Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from the chemical During fire, gases hazardous to health may be formed.

Protective equipment and precautions for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire. Wear suitable protective equipment.

Protection of fire-fighters Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage.

## 6. Accidental release measures

Personal precautions Keep unnecessary personnel away. Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS. Wear suitable protective clothing, gloves and eye/face protection.

Environmental precautions Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

Methods and materials for containment and cleaning up Use water spray to reduce vapours or divert vapour cloud drift. This product is miscible in water. Prevent entry into waterways, sewer, basements or confined areas.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

## 7. Handling and storage

Handling Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not breathe mist or vapour. Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. Do not use in areas without adequate ventilation. Wear appropriate personal protective equipment. Wash thoroughly after handling. Avoid release to the environment. Do not empty into drains. Observe good industrial hygiene practices.

Storage Store in a cool, dry place out of direct sunlight. Keep away from heat, sparks and open flame. Keep container tightly closed. Store in a well-ventilated place. Keep away from food, drink and animal feeding stuffs. Use care in handling/storage. Store away from incompatible materials (see Section 10 of the SDS). Store in accordance with local/regional/national/international regulation.

## 8. Exposure controls / personal protection

### Control parameters

US. ACGIH Threshold Limit Values

Components	Type	Value	Form
2-(2-BUTOXYETHOXY)ETHA NOL (CAS 112-34-5)	TWA	10 ppm	Inhalable fraction and vapor.
carbon black (CAS 1333-86-4)	TWA	3 mg/m <sup>3</sup>	Inhalable fraction.

Engineering controls Provide adequate general and local exhaust ventilation.

### Personal protective equipment

Eye/face protection Chemical goggles and face shield are recommended.

Skin protection Wear suitable protective clothing.

Respiratory protection Chemical respirator with organic vapour cartridge.

Hand protection Wear appropriate chemical resistant gloves.

## 9. Physical and chemical properties

### Appearance

Physical state Liquid.

Colour	Black.
Form	Liquid.
Odour	Slight.
Odour threshold	Not available.
pH	7 - 10
Melting point/Freezing point	Not available.
Boiling point	> 100 °C (> 212 °F)
Flash point	Not available.
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Flammability limits in air, lower, % by volume	Not available.
Flammability limits in air, upper, % by volume	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Solubility(ies)	
Solubility (water)	dispersible in water
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	< 15 mPa·s @25°C
Specific gravity	Not available.
Density	1.05 - 1.15 g/cm <sup>3</sup> @25°C
Other data	
Surface tension	30 - 40 mN/m @25°C

## 10. Stability and reactivity

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Heat, flames and sparks. Contact with incompatible materials. Avoid exposure to high temperatures or direct sunlight.
Incompatible materials	Strong oxidising agents.
Hazardous decomposition products	No hazardous decomposition products are known.

## 11. Toxicological information

Toxicological data		
Components	Species	Test results
<b>2-(2-BUTOXYETHOXY)ETHANOL (CAS 112-34-5)</b>		
<u>Acute</u>		
Dermal		
LD50	Rat	2000 mg/kg
Oral		
LD50	Rat	5000 mg/kg
Routes of exposure	Inhalation.	
Acute toxicity	Based on available data, the classification criteria are not met.	
Skin corrosion/irritation	Not available.	
Serious eye damage/eye irritation	Not available.	
Respiratory sensitiser	Not available.	
Skin sensitisation	Not available.	
Mutagenicity	Not available.	

**Carcinogenicity** IARC's overall evaluation was that "Carbon black is possibly carcinogenic to humans (Group 2B)." However, this conclusion was based on studies of only one animal species (rat). Furthermore, as a result of the detailed epidemiological investigations, no causative link between carbon black exposure and cancer risk in humans has been demonstrated. UN GHS says, that even if adverse effects are seen in animal studies or in-vitro tests, no classification is needed if the mechanism or mode of action is not relevant to humans.

**ACGIH Carcinogens**

carbon black (CAS 1333-86-4)

A3 Confirmed animal carcinogen with unknown relevance to humans.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

carbon black (CAS 1333-86-4)

2B Possibly carcinogenic to humans.

Reproductive toxicity Not available.  
 Specific target organ toxicity Not available.  
 - single exposure  
 Specific target organ toxicity Not available.  
 - repeated exposure  
 Aspiration hazard Not available.  
 Chronic effects Prolonged inhalation may be harmful.  
 Symptoms Not available.  
 Other information Not available.

**12. Ecological information**

**Ecotoxicological data**

Components		Species	Test results
<b>2-(2-BUTOXYETHOXY)ETHANOL (CAS 112-34-5)</b>			
Aquatic			
Acute			
Algae	EC50	Green algae ( <i>Scenedesmus bijugatus</i> )	> 100 mg/l, 96 hours
Crustacea	EC50	Daphnia magna	> 100 mg/l, 48 hours
Fish	LC50	Bluegill ( <i>Lepomis macrochirus</i> )	1300 mg/l, 96 hours
<b>carbon black (CAS 1333-86-4)</b>			
	LC50	zebra fish( <i>Brachydanio rerio</i> )	> 1000 mg/l, 96 h
Aquatic			
Algae	NOEC	Green algae ( <i>Desmodesmus subspicatus</i> )	> 10000 mg/l, days
Crustacea	EC50	Water flea ( <i>Daphnia magna</i> )	> 5600 mg/l, 24 h

**Ecotoxicity** Harmful to aquatic life. Contains a substance which causes risk of hazardous effects to the environment.  
**Persistence and degradability** No data is available on the degradability of this product.  
**Bioaccumulation** No data available for this product.  
**Mobility** This product is miscible in water.  
**Hazardous to the ozone layer** No data available.  
**Other information** Not available.

**13. Disposal considerations**

**Disposal methods** Dispose of contents/container in accordance with local/regional/national/international regulations. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. This material and its container must be disposed of as hazardous waste. Contract with a disposal operator licensed by the Law on Disposal and Cleaning. When your own wastewater treatment plant is not available, collect entire waste and then charge to a licensed industrial waste management professional with manifests for industrial waste.  
**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).  
**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

## 15. Regulatory information

Regulatory information                      Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

Montreal Protocol

Not applicable.

Rotterdam Convention

Not applicable.

Stockholm Convention

Not applicable.

## 16. Other information

Issue date                                      11-April-2017

Bibliography                                  ACGIH  
ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices  
HSDB® - Hazardous Substances Data Bank  
IARC Monographs. Overall Evaluation of Carcinogenicity

Disclaimer                                      This safety data sheet was prepared in accordance with JIS Z 7253:2012. The information in the sheet was written based on the best knowledge and experience currently available. This product is intended for industrial use only. Should it ever be applied for medical or other purposes, this is completely the responsibility of the purchaser. Ingesting or injecting this product or using it in such a manner that some of it might remain within the body is forbidden. Do not do this under any circumstances. This information is based upon the latest data available to us, but should not be read as a guarantee of the contents, physical properties or danger and harmfulness levels. Since all chemicals may have hitherto unknown deleterious properties, care should always be taken during use. It is the responsibility of every user to establish the necessary safety precautions before employment. In addition, the present information is intended for normal usage; however, if special usage is contemplated, then the appropriate safety precautions and application conditions should be carefully prepared.