

## 1. IDENTIFICATION OF PRODUCT AND COMPANY

**Product Name** : 77001-00128 Solvent  
**Use of the substance/preparation:** Solvent for industrial ink jet printers (CIJ-printers)  
**Supplier** : Inkminic logo Technology (GZ) CO., LTD  
Room 1601, No.4 Yichuang Street, Jiulong Town, Huangpu Guangzhou City,  
Guangdong Province

## 2. HAZARDS IDENTIFICATION

### 2.1. Classification of the substance or mixture

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

Acute oral toxicity	Category 4
Acute Toxicity - Vapours	Category 4
Acute Toxicity - Dusts and Mists	Category 4
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ systemic toxicity (single exposure)	Category 3
Physical hazards	Flammable liquids Category 2

### 2.2. Label elements

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



**Signal word:** Danger

#### Hazard statements:

H302 - Harmful if swallowed  
H319 Causes serious eye irritation.  
H332 - Harmful if inhaled  
H225 Highly flammable liquid and vapour.  
EUH066 - Repeated exposure may cause skin dryness or cracking

#### Precautionary Statements

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray  
P304 + P340 - IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing  
P301 + P312 - IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell  
P280 - Wear 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  
P337 + P313 - If eye irritation persists: Get medical advice/ attention  
P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
P233 - Keep container tightly closed

## Hazardous ingredients for labeling

butanone

### 2.3. Other hazards

#### Adverse physicochemical effects

In the case of insufficient ventilation and/or through the formation of an 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	60-70	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336
64-17-5	200-578-6	Ethyl Alcohol	20-30	Flam. Liq. 2, H225
65-56-1	200-659-6	Methyl alcohol	1-5	Acute Tox. 3, H301 Acute Tox. 3, H311 Flam. Liq. 2, H225 STOT SE 1, H370 Acute Tox. 3, H331

For the full text of the H-phrases mentioned in this Section, see Section 16

## 4. FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General advice

Show this safety data sheet to the doctor in attendance.

Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Get medical attention immediately if irritation develops and persists.

#### Skin contact

Wash off immediately with soap and plenty of water. Use a mild soap if available. Rinse immediately with plenty of water for at least 15 minutes. Remove contaminated clothing. If irritation develops, get medical attention.

#### Inhalation

If breathed in, move person into fresh air. If breathing is irregular or stopped, administer artificial respiration. Get medical attention immediately.

#### Ingestion

If swallowed, DO NOT induce vomiting. Call a physician or Poison Control Centre immediately. Never give anything by mouth to an unconscious person.

#### **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**

**Notes to Physician** Treat symptomatically

### **5. FIRE-FIGHTING MEASURES**

#### **5.1. Extinguishing media**

##### **Suitable extinguishing media**

Foam. Carbon dioxide (CO<sub>2</sub>). Dry chemical. Water spray. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

##### **Extinguishing media which shall not be used for safety reasons**

No information available

#### **5.2. Special hazards arising from the substance or mixture**

Carbon monoxide (CO)

Carbon dioxide (CO<sub>2</sub>)

Burning produces obnoxious and toxic fumes

#### **5.3. Advice for firefighters**

##### **Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

### **6. ACCIDENTAL RELEASE MEASURES**

#### **6.1. Personal precautions, protective equipment and emergency procedures**

##### **For non-emergency personnel**

Remove all sources of ignition. Ventilate the area. Avoid breathing dust or vapor. Avoid contact with skin, eyes and clothing. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak.

#### **6.2. Environmental precautions**

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

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

Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Do not use sparking tools

##### **Additional Information**

Information for disposal see chapter 13.

#### **6.4. Reference to other sections**

See section 12 for additional information.

## 7. HANDLING AND STORAGE

### 7.1. Precautions for safe handling

#### Handling

Take measures against electrostatically charging.

Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Remove and wash contaminated clothing before re-use. Discard contaminated shoes. When using do not smoke. Take notice of the directions of use on the label. Do not take internally. Harmful or fatal if swallowed.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice

### 7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep container closed when not in use. Keep out of the reach of children. Keep away from heat and sources of ignition.

### 7.3. Specific end use(s)

Solvent for industrial InkJet printers.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1. Control parameters

#### Exposure limits:

CAS No	Name	European Union	United Kingdom	Germany
64-17-5	Ethyl Alcohol		STEL: 3000 ppm STEL: 5760 mg/m <sup>3</sup> TWA: 1000 ppm TWA: 1920 mg/m <sup>3</sup>	TWA/MAK: 500 ppm TWA/MAK: 960 mg/m <sup>3</sup> Peak: 1000 ppm Peak: 1920 mg/m <sup>3</sup> TWA/AGW: 500 ppm TWA/AGW: 960 mg/m <sup>3</sup>
65-56-1	Methyl alcohol	TWA: 200 ppm TWA: 260 mg/m <sup>3</sup> Skin	STEL: 250 ppm STEL: 333 mg/m <sup>3</sup> TWA: 200 ppm TWA: 266 mg/m <sup>3</sup> Skin	TWA/MAK: 200 ppm TWA/MAK: 270 mg/m <sup>3</sup> Peak: 800 ppm Peak: 1080 mg/m <sup>3</sup> TWA/AGW: 200 ppm TWA/AGW: 270 mg/m <sup>3</sup> Skin
78-93-3	butanone		STEL: 300 ppm STEL: 899 mg/m <sup>3</sup> TWA: 200 ppm TWA: 600 mg/m <sup>3</sup> Skin	TWA/MAK: 200 ppm TWA/MAK: 600 mg/m <sup>3</sup> Peak: 200 ppm Peak: 600 mg/m <sup>3</sup> TWA/AGW: 200 ppm TWA/AGW: 600 mg/m <sup>3</sup> Skin

**Derived No Effect Level (DNEL)**

No information available

**Predicted No Effect Concentration (PNEC)**

No information available

### 8.2. Exposure controls

#### Engineering Measures

Use ventilation adequate to keep exposures below recommended exposure limits. In case of insufficient ventilation, wear suitable respiratory equipment.

#### Personal protective equipment

##### Eye Protection

Ensure that eyewash stations and safety showers are close to the workstation location. Avoid contact with eyes. Safety glasses with side-shields. Goggles. Face-shield

##### Skin Protection

Wear protective gloves/clothing. Solvent-resistant apron and boots

**Hand Protection**

Nitrile rubber. Neoprene gloves.

**Respiratory Protection**

Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust). Respirator with a vapour filter

**Environmental exposure controls**

No information available

**9. PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<b>Appearance</b>	<b>Colour</b>	<b>Odour</b>
Liquid	colorless, clear	like ketone

**Odour threshold**

No information available.

**Important health, safety and environmental information**

	Value
<b>pH value</b>	No information available.
<b>Melting point</b>	No information available.
<b>Freezing point</b>	No information available.
<b>Boiling point:</b>	>149°C
<b>Flash point</b>	-9.0 °C
<b>Evaporation rate</b>	No information available
<b>Flammable (solid)</b>	No information available.
<b>Flammability (gas)</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Vapour density</b>	heavier than air.
<b>Self ignition temperature</b>	No information available.
<b>Lower explosion limit</b>	No information available.
<b>Upper explosion limit</b>	No information available.
<b>Specific gravity</b>	0,8
<b>Solubility in water</b>	No information available.
<b>Solubility/other</b>	No information available.
<b>Decomposition temperature</b>	No information available.
<b>Viscosity dynamic</b>	No information available.
<b>Solvent concentration</b>	100 %

**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

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

None under normal conditions.

### 10.4. Conditions to avoid

Heat, flames and sparks

### 10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizing agents. Reducing agents

### 10.6. Hazardous decomposition products

Thermal decomposition can lead to release of irritating gases and vapours. Carbon dioxide (CO<sub>2</sub>). Carbon monoxide

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity

Component	LD50	LD50 Dermal	LC50 Inhalation
Butanone	2737 mg/kg ( Rat )	6480 mg/kg ( Rabbit )	
Ethyl alcohol	7060 mg/kg ( Rat )		124.7 mg/L ( Rat ) 4 h
Methyl alcohol	5628 mg/kg ( Rat )	15800 mg/kg ( Rabbit )	64000 ppm ( Rat ) 4 h 83.2 mg/L ( Rat ) 4 h

#### Irritation

No information available

#### Corrosivity

No information available

#### Sensitisation

No information available

#### Mutagenic Effects

No information available

#### Carcinogenic effects

No information available

#### Reproductive Effects

No information available

#### Developmental hazard

No information available

#### STOT - single exposure

No information available

#### STOT - repeated exposure

No information available

#### Aspiration Hazard

No information available

## 12. ECOLOGICAL INFORMATION

### 12.1. Toxicity

#### Ecotoxicological effects

Component	Algae	Fish	Water Flea
Methyl ethyl ketone (Butanone)		96h LC50 Pimephales promelas: 3130 - 3320 mg/L [flow-through]	48h EC50 Daphnia magna: 4025 - 6440 mg/L [static] 48h EC50 Daphnia magna: 5091 mg/L 48h EC50 Daphnia magna: >520 mg/L
Ethyl alcohol		96h LC50 Oncorhynchus mykiss: 12.0 - 16.0 mL/L [static] 96h LC50 Pimephales promelas: 13400 - 15100 mg/L [flow-through] 96h LC50 Pimephales promelas: >100 mg/L [static]	48h LC50 Daphnia magna: 9268 - 14221 mg/L 24h EC50 Daphnia magna: 10800 mg/L
Methyl alcohol		96h LC50 Lepomis macrochirus: 13500 - 17600 mg/L [flow-through] 96h LC50 Oncorhynchus mykiss: 18 - 20 mL/L [static] 96h LC50 Oncorhynchus mykiss: 19500 - 20700 mg/L [flow-through] 96h LC50 Pimephales promelas: 28200 mg/L [flow-through] 96h LC50 Pimephales promelas: >100 mg/L [static]	

### 12.2. Persistence and degradability

No information available

### 12.3. Bioaccumulative potential

Component	log Pow
Ethyl alcohol	-0.32
Methyl alcohol	-0.77

### 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 from Residues / Unused Products

Dispose of in accordance with local regulations

#### Contaminated Packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. TRANSPORT INFORMATION

	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA-DGR</b>
<b>14.1. UN number</b>	1210	1210	1210
<b>14.2. UN proper shipping name</b>	PRINTING INK RELATED MATERIAL (butanone)	PRINTING INK RELATED MATERIAL (butanone)	PRINTING INK RELATED MATERIAL (butanone)
<b>14.3. Transport hazard class(es)</b>	3	3	3
<b>14.4. Packing group</b>	II	II	II
<b>14.5. Environmental hazards</b>	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

#### Regulation (EC) No. 1907/2006 (REACH), Article 57

This product does not contain substances of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 57)

### 15.2. Chemical Safety Assessment

No information available.



## 16. OTHER INFORMATION

### Recommended uses and restrictions

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

#### Text of R phrases mentioned in Section 3

R11 - Highly flammable

R66 - Repeated exposure may cause skin dryness or cracking

R67 - Vapours may cause drowsiness and dizziness

R36 - Irritating to eyes

R39/23/24/25 - Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed

R23/24/25 - Toxic by inhalation, in contact with skin and if swallowed

R20/21/22 - Harmful by inhalation, in contact with skin and if swallowed

R68/20/21/22 - Harmful: possible risk of irreversible effects through inhalation, in contact with skin and if swallowed

#### Full text of H-Statements referred to under sections 2 and 3

H301 - Toxic if swallowed

H311 - Toxic in contact with skin

H225 - Highly flammable liquid and vapor

H370 - Causes damage to organs (a,b,c) if inhaled

H331 - Toxic if inhaled

H336 - May cause drowsiness or dizziness

H319 - Causes serious eye irritation

EUH066 - Repeated exposure may cause skin dryness or cracking

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.