



# Safety Data Sheet (about ink)

Creation Date

February 24, 2011

## 1. PRODUCT AND COMPANY IDENTIFICATION

**Product Name:** SR#282 Indelible Ink  
**MSDS Number:** MS-03-0015  
**Company Name:** UNIONCHEMICAR CO.,LTD  
**Address:** 3-10 Shodai Tajika, Hirakata. OSAKA 573-1132, JAPAN  
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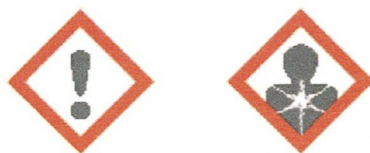
## 2. HAZARD INFORMATION

### GHS

Explosives	Classification not possible
Flammable gases	Not gases
Flammable aerosols	Not aerosols
Oxidizing gases	Not gases
Gases under pressure	Not gases
Flammable liquids	Not classified
Flammable solids	Not solids
Self-reactive substances and mixtures	Classification not possible
Pyrophoric liquids	Classification not possible
Pyrophoric solids	Not solids
Self-heating substances and mixtures	Classification not possible
Substances and mixtures which, in contact with water, emit flammable gases	Classification not possible
Oxidizing liquids	Classification not possible
Oxidizing solids	Not solids
Organic peroxides	Classification not possible
Corrosive to metals	Classification not possible
Acute toxicity (Oral)	Classification not possible
Acute toxicity (Dermal)	Not classified
Acute toxicity (Gases)	Not gases
Acute toxicity (Vapours)	Classification not possible
Acute toxicity (Dusts and Mists)	Classification not possible
Skin corrosion /irritation	Classification not possible
Eye damage / irritation	Category 2
Sensitization - Respiratory	Classification not possible
Sensitization - Skin	Classification not possible
Germ cell mutagenicity	Classification not possible
Carcinogenicity	Classification not possible
Toxic to reproduction	Classification not possible
Specific target organ systemic toxicity (Single exposure)	Classification not possible

Specific target organ systemic toxicity (Repeated exposure)	Category 1
Aspiration toxicity	Classification not possible
Hazardous to the aquatic environment - Acute hazard	Category 2
Hazardous to the aquatic environment - Chronic hazard	Classification not possible

**Label elements**  
Pictogram;



- Signal Words:** Danger
- Hazard statement:**
- Causes serious eye irritation
  - Causes damage to organs through prolonged or repeated exposure (Lungs)
  - Toxic to aquatic life
- Prevention:**
- Wear protective gloves and eye/face protection when handling a lot of ink.
  - Do not eat, drink or smoke when using this product.
  - Wash hands thoroughly after handling.
  - Do not breathe dust/fume/gas/mist/vapours/spray.
  - Avoid release to the environment

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance or mixture; Mixture

Components	CAS#	Content (%)	R-Phrase
Carbon brack	1333-86-4	10-20	Not applicable
Dye	Secret	10-20	Not applicable
Oil 1	Secret	10-20	Not available
Oil 2	Secret	50-60	Not available
Resin	Secret	10-20	Not applicable

### 4. FIRST AID MEASURES

- Inhalation:** Move the victims to the clean air space and rest in a comfortable position for breathing. When it feels sick, take doctor's treatment.
- Skin:** Wash away with soap and water immediately. When skin swells and pain continue, take doctor's treatment.
- Eye:** Rinse cautiously with clean water for several minutes. Immediately take doctor's treatment.
- Swallowed:** Do not compel to vomit. Wash the mouth with water. Immediately take doctor's treatment.

### 5. FIRE FIGHTING MEASURE

- Extinguishing media:** Use water spray, dry chemical, carbon dioxide, or chemical foam.
- Prohibited extinguishing media:** Don't use stick-shaped water.

- Special extinguishing method:**
1. Cut the origin of the fire.
  2. Wear the protection clothes and extinguish the fire from the windward.
  3. Transfer to the safe place the movable container immediately.
  4. Cool down the surrounding equipment by water.
  5. Specify the place off limits around the fire.

**Protection :** Attach a suitable protection.

## 6. ACCIDENTAL RELEASE MEASURES

- Personal precaution:** In the case of a large quantity
1. Put a rope around the location of leaks. And specify to off-limit area.
  2. Case indoor, get adequate ventilation.
  3. Surely attach the protective equipment at work.
  4. Keep a fire extinguisher to prepare.

In the case of a little quantity  
Use the protective gloves as required.

**Environmental precaution:** Prevent entry into waterway, sewers, basements or confined areas.

### Methods for containment:

- In the case of a large quantity:**
1. Stop the leaked liquid by sands and earth.
  2. Lead this liquid to a safety place.
  3. Collect them into the empty container, and seal the container tightly.

**In the case of a little quantity:** Make a rags cloth or paper absorb the leaked liquid.

## 7. HANDLING AND STORES

**Handling:** When dealing with a large of ink, wear eye or face protection.

**Storage:** Avoid direct sunlight, and store in well-ventilated place.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure limit values:

**Equipment countermeasure:** Not require special equipment

**Personal protection:** Use personal protective gloves and/or glasses as required.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Black liquid	<b>Vapour pressure</b>	Not available
<b>Odor</b>	Distinctive odor	<b>Vapour density</b>	Not available
<b>pH</b>	Not available	<b>Specific gravity</b>	Not available
<b>Boiling point</b>	Not available	<b>Solubility in water</b>	Hardly solution in water
<b>Flash point</b>	170°C over	<b>Upper/lower flammability or explosive limits</b>	Not available

## 10. STABILITY AND REACTIVITY

**Stability :** This ink is stability under the usual handling condition

**Conditions to avoid :** High temperature, Heating, Fire, Spark, Sunlight

**Materials to avoid :** Strong acids, Strong bases, Oxidizer

**Hazardous Decomposition Products :** Toxic gases such as carbon monoxide and carbon dioxide may occur during combustion.

## 11. TOXICOLOGY INFORMATION

### Acute toxicity (Oral)

Not classified: Carbon black; Oil 1; Oil 2; Dye  
Classification not possible: Other components  
This product is classified as "Classification not possible", because no data to classify.

<b>Acute toxicity (Dermal)</b>	Not classified: Dye; Oil 2 Classification not possible: Other components This product is classified as "Classification not possible", because no data to classify.
<b>Acute toxicity (Gases)</b>	This product is not gases.
<b>Acute toxicity (Vapours)</b>	Not classified: Dye Classification not possible: Other components This product is classified as "Classification not possible", because no data to classify.
<b>Acute toxicity (Dusts and Mists)</b>	Not classified: Dye Classification not possible: Other components This product is classified as "Classification not possible", because no data to classify.
<b>Skin corrosion /irritation</b>	Not classified: Dye; Oil 1; Oil 2 Classification not possible: Other components This product is classified as "Classification not possible", because no data to classify.
<b>Eye damage / irritation</b>	Category 2A: Oil 2 Not classified: Oil 1; Dye Classification not possible: Other components This product is classified as "Category 2", because it contains over 10% the component of Category 2B.
<b>Sensitization - Respiratory</b>	Classification not possible: All components This product is classified as "Classification not possible", because no data to classify.
<b>Sensitization - Skin</b>	Not classified: Dye 1; Oil 1; Oil 2 Classification not possible: Other components This product is classified as "Classification not possible", because no data to classify.
<b>Germ cell mutagenicity</b>	Not classified: Oil 2 Classification not possible: Other components This product is classified as "Classification not possible", because no data to classify.
<b>Carcinogenicity</b>	Not classified: Oil 1; Oil 2 Classification not possible: Other components This product is classified as "Classification not possible", because no data to classify.
	(Notes) Evaluation results for the carcinogenicity of carbon black in each agency. IARC; Group 2B (The agent is possibly carcinogenic to humans.) ACGIH; A4 (Not classifiable as a human carcinogen) EPA; Not applicable EU; Not applicable NTP; Not applicable Japan Association of Industrial Health; 2B Evaluation of carbon black is different in each agency. Therefore, it is classified as "Classification not possible".
<b>Toxic to reproduction</b>	Not classified: Dye; Oil 1; Oil 2 Classification not possible: Other components This product is classified as "Classification not possible", because no data to classify.
<b>Specific target organ systemic toxicity (Single exposure)</b>	Not classified: Dye Classification not possible: Other components This product is classified as "Classification not possible", because no data to classify.

**Specific target organ systemic toxicity (Repeated exposure)**

Category 1(Lungs): Carbon black  
Classification not possible: Other components  
This product is classified as "Category 1", because it contains over 10% the component of "Category 1".

(Note)

In usual use condition, you will be not exposed to carbon black.

**Aspiration toxicity**

Category 1: Oil 1  
Classification not possible: Other components  
This product is classified as "Classification not possible". Because its kinematic viscosity is not known.

**12. ECOLOGICAL INFORMATION**

**Hazardous to the aquatic environment - Acute hazard**

Category 2: Oil 2  
Not classified; Carbon black; Dye; Oil 1  
Classification not possible; Other components  
This product is classified as "Category 2", because it contains over 25% the component of category 2.

**Hazardous to the aquatic environment - Chronic hazard**

Not classified; Dye 1; Oil 2  
Classification not possible; Other components  
This product is classified as "Classification not possible", because no data to classify.

**13. PRECAUTION FOR DISPOSAL**

**Residual waste:**

When you dispose this product, you observe the relevant laws/regulations and local government rules. Entrust industrial waste to disposal contractor licensed by the prefecture governor. It is important to tell toxicity and risk of the product to the contractor, prior to disposal.

**Contaminated containers and packages:**

The empty container is scraped after the contents are removed completely. Scrape the empty container after the contents are removed completely. Entrust container and contents to disposal contractor licensed by the prefecture governor.

**14. Precaution for transportation**

**UN number:** Not applicable

**UN classification:** Not applicable

**Name and Description:** Not applicable

**Land transportation:** According to the Fire Services Act and Industrial Safety and Health Act.

**Marine transportation:** According to Ship Safety Law and Ports and Harbors Act.

**Air transportation:** According to Civil Aeronautics Act.

**15. Applicable laws**

Components	R-Phrase	R-Phrase1
Carbon black	Not applicable	Not applicable
Dye	Not applicable	Not applicable
Oil 1	Not available	Not available
Oil 2	Not available	Not available
Resin	Not applicable	Not applicable

## 16. OTHER INFORMATION

The information has been created based on materials and information that we obtained. However, this is no warranty about contents, physicochemical information, and hazardous. And, the precautions are shown about the attention point in usual handling. For special handling, please use this material after you confirm the safety countermeasure which is suitable for the use and usage. This information may be change when we obtained the new materials and information.



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