

# SAFETY DATA SHEET

Keeping liquid set

IP5-107

**OKI DATA INFOTECH CORPORATION**

## Safety Data Sheet

### 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

- 1.1 Product identifier                      Product Name : Keeping liquid set  
     Product Code : IP5-107
- 1.2 Relevant identified uses of the substance or mixture and uses advised against  
     Inkjet Ink
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer's Name :   OKI Data Infotech Corporation  
     563, Takatsuka-Shinden, Matsudo-shi, Chiba, 270-2222, Japan  
     Tel:+81-47-391-2349
- Distributor:                      OKI Europe Ltd. Wide Format Division  
     Siemensstrase 9, D-63263 Neu-Isenburg  
     Germany  
     +49 (0) 6102 297 400

### 2. HAZARDS IDENTIFICATION

- 2.1 Classification of the substance or mixture  
     <Regulation (EC) No. 1272/2008>  
         Not a hazardous.
- <67/548/EEC >  
         Not a hazardous.
- 2.2 Label elements  
     <Regulation (EC) No. 1272/2008>  
         Not a hazardous
- 2.3 Other hazards  
     None known.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

#### Substances

Main Ingredients	Content(%)	CAS-No.	EC-No.	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)
2-(2-butoxyethoxy)ethyl acetate	>98	124-17-4	204-685-9	None	None

### 4. FIRST-AID MEASURES

#### 4.1 Description of first aid measures

- Protection of first-aiders:        No special precautions are necessary for first aid responders.
- If inhaled:  
     If inhaled, remove to fresh air.  
     Get medical attention if symptoms occur.
- In case of skin contact:  
     Wash with water and soap as a precaution.  
     Get medical attention if symptoms occur.
- In case of eye contact:  
     Flush eyes with water as a precaution.  
     Get medical attention if irritation develops and persists.
- If swallowed:  
     If swallowed, DO NOT induce vomiting.  
     Get medical attention if symptoms occur.

Rinse mouth thoroughly with water.

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

None known.

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

Treatment: Treat symptomatically and supportively

## 5. FIRE-FIGHTING MEASURES

### 5.1 Extinguishing media

Suitable extinguishing media:	Water spray Alcohol-resistant foam Dry chemical Carbon dioxide (CO <sub>2</sub> )
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Unsuitable Extinguishing Media

None known.

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

Specific hazards during fire-fighting:	Exposure to combustion products may be a hazard to health.
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Hazardous combustion products:	Carbon oxides
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### 5.3 Advice for firefighters

Special protective equipment for firefighters:	Wear self-contained breathing apparatus for firefighting if necessary. Use personal protective equipment.
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Specific extinguishing methods:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray to cool unopened containers. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.
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## 6. ACCIDENTAL RELEASE MEASURES

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

Personal precautions:	Follow safe handling advice and personal protective equipment recommendations.
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### 6.2 Environmental precautions

Environmental precautions:	Discharge into the environment must be avoided. Prevent further leakage or spillage if safe to do so. Prevent spreading over a wide area (e.g. by containment or oil barriers). Retain and dispose of contaminated wash water. Local authorities should be advised if significant spillages cannot be contained.
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### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up:	Soak up with inert absorbent material. For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container. Clean up remaining materials from spill with suitable absorbent. Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable. Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.
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### 6.4 Reference to other sections

See sections: 7, 8, 11, 12 and 13.

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## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Technical measures:	See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
Local/Total ventilation:	Use only with adequate ventilation.
Advice on safe handling:	Handle in accordance with good industrial hygiene and safety practice. Take care to prevent spills, waste and minimize release to the environment.
Hygiene measures:	Ensure that eye flushing systems and safety showers are located close to the working place. When using do not eat, drink or smoke. Wash contaminated clothing before reuse.

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

Requirements for storage areas and containers:	Keep in properly labelled containers. Store in accordance with the particular national regulations.
Advice on common storage:	Do not store with the following product types: Strong oxidizing agents

### 7.3 Specific end use(s)

Specific use(s):	No data available
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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Contains no substances with occupational exposure limit values.

Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

2-(2-butoxyethoxy)ethyl acetate:	End Use: Workers
	Exposure routes: Inhalation
	Potential health effects: Long-term systemic effects
	Value: 85 mg/m <sup>3</sup>
End Use: Workers	Exposure routes: Skin contact
	Potential health effects: Long-term systemic effects
	Value: 24 mg/kg
	End Use: Consumers
Exposure routes: Inhalation	Potential health effects: Long-term systemic effects
	Value: 43 mg/m <sup>3</sup>
	End Use: Consumers
	Exposure routes: Skin contact
Potential health effects: Long-term systemic effects	Value: 12 mg/kg
	End Use: Consumers
	Exposure routes: Ingestion
	Potential health effects: Long-term systemic effects
Value: 1.58 mg/kg	

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

2-(2-butoxyethoxy)ethyl acetate:	Fresh water
	Value: 0.108 mg/l
	Marine water
	Value: 0.0108 mg/l
	Intermittent use/release
	Value: 0.6 mg/l
	Fresh water sediment
	Value: 0.8 mg/kg
	Marine sediment
	Value: 0.8 mg/kg

Soil  
Value: 0.29 mg/kg  
Oral  
Value: 70 mg/kg

## 8.2 Exposure controls

Engineering measures:	Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations.
Personal protective equipment	
Eye protection:	Wear the following personal protective equipment: Safety glasses
Hand protection	
Remarks:	Wash hands before breaks and at the end of workday.
Skin and body protection:	Skin should be washed after contact.
Respiratory protection	Use respiratory protection unless adequate local exhaust ventilation is provided or exposure assessment demonstrates that exposures are within recommended exposure guidelines.
Filter type:	Organic vapour type (A)

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Appearance:	liquid
Color:	colorless
Odor	solvent-like
Odor Threshold:	No data available
pH:	No data available
Melting point/freezing point:	No data available
Initial boiling point and boiling range:	No data available
Flash point:	114°C Method: Cleveland open cup
Evaporation rate:	No data available
Flammability (solid, gas)	Not applicable
Upper explosion limit:	10.7 %(V)
Lower explosion limit:	0.7 %(V) ( 93 °C)
Vapour pressure:	No data available
Relative vapour density:	No data available
Density:	0.98-1.02g/cm <sup>3</sup>
Water solubility:	65 g/l partly soluble
Partition coefficient: n-octanol/water:	Not applicable
Auto-ignition temperature:	No data available
Thermal decomposition:	No data available
Viscosity, dynamic:	No data available
Explosive properties:	Not explosive
Oxidizing properties:	The substance is not classified as oxidizing.

### 9.2 Other information

No data available

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## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

Not classified as a reactivity hazard.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions: Can react with strong oxidizing agents.

### 10.4 Conditions to avoid

Conditions to avoid: None known.

### 10.5 Incompatible materials

Materials to avoid: Oxidizing agents

### 10.6 Hazardous decomposition products

No hazardous decomposition products are known.

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## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Information on likely routes of exposure: Inhalation, Skin contact, Ingestion, Eye contact

Acute toxicity: Not classified based on available information.

Skin corrosion/irritation: Not classified based on available information.

Serious eye damage/eye irritation: Not classified based on available information.

Respiratory or skin sensitization: Skin sensitisation: Not classified based on available information.  
Respiratory sensitisation: Not classified based on available information.

Germ cell mutagenicity: Not classified based on available information.

Carcinogenicity: Not classified based on available information.

Reproductive toxicity: Not classified based on available information.

STOT - single exposure: Not classified based on available information.

STOT - repeated exposure: Not classified based on available information.

Aspiration toxicity: Not classified based on available information.

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## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

No data available

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

Not relevant

### 12.6 Other adverse effects

No data available

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## 13. DISPOSAL CONSIDERATIONS

**13.1 Waste treatment methods**

- Product: Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.
- Contaminated packaging: Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**14. TRANSPORT INFORMATION****14.1 UN number**

Not regulated as a dangerous good

**14.2 UN proper shipping name**

Not regulated as a dangerous good

**14.3 Transport hazard class(es)**

Not regulated as a dangerous good

**14.4 Packing group**

Not regulated as a dangerous good

**14.5 Environmental hazards**

Not regulated as a dangerous good

**14.6 Special precautions for user**

Not applicable

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

Not applicable for product as supplied.

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

- Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals: Not applicable
- REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).: Not applicable
- Regulation (EC) No 1005/2009 on substances that deplete the ozone layer: Not applicable
- Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable
- Seveso II - Directive 2003/105/EC amending Council Directive 96/82/EC on the control of major-accident hazards involving dangerous substances: Not applicable

**15.2 Chemical Safety Assessment**

A Chemical Safety Assessment has not been carried out.

**16. OTHER INFORMATION****Further information**

Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release



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