

SAFETY DATA SHEET

Ink pack/Sub cartridge (Cyan)

IP7-103/IP7-113

OKI DATA INFOTECH CORPORATION



Safety Data Sheet

1. IDENTIFICATION OF THE	SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING			
1.1 Product identifier	Product Name : Ink pack /Sub cartridge(Cyan) Product Code : IP7-103/IP7-113			
1.2 Relevant identified uses of th	e substance or mixture and uses advised against			
	Inkjet Ink			
1.3 Details of the supplier of the s	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 IDENTIFICATIO	N			
2.1 Classification of the substance	e or mixture			
<regulation (ec)="" 12<="" no.="" td=""><td>272/2008></td></regulation>	272/2008>			
Classification				
Acute toxicity, Category 4	H302: Harmful if swallowed.			
Acute toxicity, Category 4	H312: Harmful in contact with skin.			
Serious eye damage, Catego <1999/45/EC >	ory 1 H318: Causes serious eye damage.			
Harmful	R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.			
Irritant	R41: Risk of serious damage to eyes.			
2.2 Label elements				
<regulation (ec)="" 12<="" no.="" td=""><td>272/2008></td></regulation>	272/2008>			
Hazard pictograms	A A			



Signal word: Hazard statements

Danger Harmful if swallowed or in contact with skin. Causes serious eye damage.

Precautionary statements Prevention:

Response:

Do not eat, drink or smoke when using this product Wear eye protection/ face protection. Wear protective gloves/ protective clothing. IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth. IF ON SKIN: Wash with plenty of water. Call a POISON CENTER or doctor/ physician if you feel unwell. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/



physician. Hazardous components which must be listed on the label: 2-Butoxyethyl acetate γ-butyrolactone

2.3 Other hazards

Vapours may form explosive mixture with air.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Main Ingredients	Content(%)	CAS-No.	EC-No.	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)
2-Butoxyethyl acetate	75-85	112-07-2	203-933-3		Acute Tox. 4; H302 Acute Tox. 4; H312 Acute Tox. 4; H332
γ-butyrolactone	1-10	96-48-0	202-509-5	Xn; R22 Xi; R41 R67	Acute Tox. 4; H302 Eye Dam. 1; H318 STOT SE 3; H336

Other components (listed on EINECS, NLP or ELINCS) are not hazardous according to the directives mentioned above.

4.

directives mentioned above.	
4. FIRST-AID MEASURES	
4.1 Description of first aid measu	ires
General advice:	In the case of accident or if you feel unwell, seek medical advice immediately. When symptoms persist or in all cases of doubt seek medical advice.
Protection of first-aiders:	First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists.
If inhaled:	If inhaled, remove to fresh air. Get medical attention if symptoms occur.
In case of skin contact:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Thoroughly clean shoes before reuse.
In case of eye contact:	In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. If easy to do, remove contact lens, if worn. Get medical attention immediately
If swallowed:	If swallowed, DO NOT induce vomiting unless directed to do so by medical personnel. Get medical attention. Rinse mouth thoroughly with water. Never give anything by mouth to an unconscious person.
4.2 Most important symptoms an	d effects, both acute and delayed
Risks:	Harmful if swallowed or in contact with skin Causes serious eye damage.
4.3 Indication of any immediate r	nedical attention and special treatment needed
Treatment:	Treat symptomatically and supportively
5. FIRE-FIGHTING MEASURE	ES



5.1 Extinguishing media

Suitable extinguishing media:	Water spray Alcohol-resistant foam		
	Dry chemical		
	Carbon dioxide (CO2)		

Unsuitable Extinguishing Media

High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting:	Do not use a solid water stream as it may scatter and spread fire.
	Flash back possible over considerable distance. Vapours may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion	Carbon oxides

products:

5.3 Advice for firefighters

Special protective equipment for firefighters:	t In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
Specific extinguishing methods:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Cool containers/tanks with water spray. Remove undamaged containers from fire area if it is safe to do so. Evacuate area.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions:	Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
Covironmental pressuitions	

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.

6.3 Methods and material for containment and cleaning up

Non-sparking tools should be used. Methods for cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Suppress (knock down) gases/vapours/mists with a water spray jet. 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.

6.4 Reference to other sections

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

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 with local exhaust ventilation. Use only in an area equipped with explosion proof exhaust ventilation.			
Advice on safe handling:	Do not get on skin or clothing. Avoid inhalation of vapour or mist. Do not swallow. Do not get in eyes. Handle in accordance with good industrial hygiene and safety practice. Keep container tightly closed. Keep away from heat and sources of ignition. Take precautionary measures against static discharges. 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. Keep tightly closed. Keep in a cool, well-ventilated place. Store in accordance with the particular national regulations. Keep away from heat and sources of ignition.			
Advice on common storage:	Do not store with the following product types: Strong oxidizing agents Explosives Gases			
7.3 Specific end use(s)				
Specific use(s):	No data available			

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
2-Butoxyethyl acetate	112-07-2	TWA	20 ppm 133 mg/m3	2000/39/EC
			50 ppm 333 mg/m3	2000/39/EC
		TWA	20 ppm	GB EH40
		STEL	50 ppm	GB EH40

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

2-Butoxyethyl acetate:

End Use: Workers Exposure routes: Inhalation



Potential health effects: Long-term systemic effects Value: 133 mg/m3 End Use: Workers Exposure routes: Inhalation Potential health effects: Acute systemic effects Value: 775 mg/m3 End Use: Workers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 333 mg/m3 End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 102 mg/kg End Use: Workers Exposure routes: Skin contact Potential health effects: Acute systemic effects Value: 102 mg/kg End Use: Consumers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 67 mg/m3 End Use: Consumers Exposure routes: Inhalation Potential health effects: Acute systemic effects Value: 499 mg/m3 End Use: Consumers Exposure routes: Inhalation Potential health effects: Acute local effects Value: 166 mg/m3 End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 36 mg/kg End Use: Consumers Exposure routes: Skin contact Potential health effects: Acute systemic effects Value: 27 mg/kg End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term systemic effects Value: 4.3 mg/kg End Use: Consumers Exposure routes: Ingestion Potential health effects: Acute systemic effects Value: 18 mg/kg End Use: Workers Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 130 mg/m3 End Use: Workers Exposure routes: Inhalation Potential health effects: Acute systemic effects Value: 958 mg/m3 End Use: Workers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 19 mg/kg End Use: Consumers

γ-butyrolactone:



	Exposure routes: Inhalation Potential health effects: Long-term systemic effects Value: 28 mg/m3 End Use: Consumers Exposure routes: Inhalation Potential health effects: Acute systemic effects Value: 340 mg/m3 End Use: Consumers Exposure routes: Skin contact Potential health effects: Long-term systemic effects Value: 8 mg/kg End Use: Consumers Exposure routes: Ingestion Potential health effects: Long-term systemic effects Value: 8 mg/kg
Predicted No Effect Concentration	(PNEC) according to Regulation (EC) No. 1907/2006:
2-Butoxyethyl acetate :	Fresh water Value: 0.304 mg/l Marine water Value: 0.0304 mg/l Intermittent use/release Value: 0.56 mg/l Sewage treatment plant Value: 90 mg/l Fresh water sediment Value: 2.03 mg/kg Marine sediment Value: 0.203 mg/kg Soil Value: 0.68 mg/kg Oral Value: 0.06 g/kg
γ-butyrolactone:	Fresh water Value: 0.056 mg/l Marine water Value: 0.0056 mg/l Intermittent use/release Value: 0.56 mg/l Sewage treatment plant Value: 452 mg/l Fresh water sediment Value: 0.24 mg/kg Marine sediment Value: 0.02 mg/kg Soil
8.2 Exposure controls	Value: 0.0147 mg/kg
·	Ensure adequate ventilation, especially in confined cross
Engineering measures:	Ensure adequate ventilation, especially in confined areas. Minimize workplace exposure concentrations. Use only in an area equipped with explosion proof exhaust ventilation.
Personal protective equipmer	nt
Eye protection:	Wear the following personal protective equipment: Chemical resistant goggles must be worn. If splashes are likely to occur, wear:Face-shield
Hand protection	
Material:	Impervious gloves



	Flame retardant gloves
Remarks:	Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. Breakthrough time is not determined for the product. Change gloves often! For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.
Skin and body protection:	Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential. Wear the following personal protective equipment: Flame retardant antistatic protective clothing. Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).
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

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Appearance:	liquid
Color:	Blue
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:	75 °C Method: Seta closed cup
Evaporation rate:	No data available
Flammability (solid, gas)	Not applicable
Upper explosion limit:	8.54 %(V) (135 °C)
Lower explosion limit:	0.88 %(V) (93 °C)
Vapour pressure:	No data available
Relative vapour density:	No data available
Density:	0.96-1.00g/cm3 (25°C)
Water solubility:	1.1 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 or mixture is not classified as oxidizing.



9.2 Other information			
	No data available		
10. STABILITY AND REACTIN	/ΙΤΥ		
10.1 Reactivity			
Not classified as a reactivity hazard.			
10.2 Chemical stability			
Stable under normal condit	Stable under normal conditions.		
10.3 Possibility of hazardous rea	ictions		
Hazardous reactions:	Combustible liquid. Vapours may form explosive mixture with air. Can react with strong oxidizing agents.		
10.4 Conditions to avoid			
Conditions to avoid:	Heat, flames and sparks.		
10.5 Incompatible materials			
Materials to avoid:	Oxidizing agents		
10.6 Hazardous decomposition p	products		
No hazardous decompositio	on products are known.		
11. TOXICOLOGICAL INFOR	MATION		
11.1 Information on toxicological	effects		
Information on likely routes of exposure:	Inhalation, Skin contact, Ingestion, Eye contact		
Acute toxicity:	Harmful if swallowed or in contact with skin		
Product:			
Acute oral toxicity:	Acute toxicity estimate : 1,940 mg/kg Method: Calculation method		
Acute inhalation toxicity	Acute toxicity estimate : > 20 mg/l Exposure time: 4 h Test atmosphere: vapour Method: Calculation method		
Acute dermal toxicity:	Acute toxicity estimate : 1,765 mg/kg Method: Calculation method		
Components:			
<2-Butoxyethyl acetate>			
Acute oral toxicity:	LD50 (Rat): 1,880 mg/kg		
Acute inhalation toxicity	Acute toxicity estimate : 20 mg/l Exposure time: 4 h		

Test atmosphere: vapour Method: Expert judgement Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI Acute dermal toxicity: LD50 (Rabbit): 1,500 mg/kg <q-butyrolactone> Acute oral toxicity: LD50 (Rat): 1,582 mg/kg Acute dermal toxicity: LC50 (Rat): > 5.1 mg/l Exposure time: 4 h

Test atmosphere: dust/mist



Skin corrosion/irritation:	Not classified based on available information.
Components:	
<2-Butoxyethyl acetate>	
Species:	Rabbit
Result:	No skin irritation
<γ-butyrolactone>	
Species:	Rabbit
Result:	No skin irritation
Serious eye damage/eye irritation:	Causes serious eye damage.
Components:	
<2-Butoxyethyl acetate>	
Species:	Rabbit
Result:	No eye irritation
<γ-butyrolactone>	
Species:	Rabbit
Method:	OECD Test Guideline 405
Result:	Irreversible effects on the eye
Respiratory or skin sensitization:	
Skin sensitisation:	Not classified based on available information.
Respiratory sensitisation:	Not classified based on available information.
Components:	
<2-Butoxyethyl acetate>	
Test Type:	Buehler Test
Exposure routes:	Skin contact
Species:	Guinea pig
Result:	negative
<γ-butyrolactone>	
Test Type:	Local lymph node assay (LLNA)
Exposure routes:	Skin contact
Species:	Mouse
Method:	OECD Test Guideline 429
Result:	negative
Germ cell mutagenicity	Not classified based on available information.
Components:	
<2-Butoxyethyl acetate>	
Genotoxicity in vitro	
Test Type:	In vitro mammalian cell gene mutation test
Result:	negative
Remarks:	Based on data from similar materials
Genotoxicity in vitro	
Test Type:	Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Test species:	Mouse
Application Route:	Intraperitoneal injection



Result:	negative
Remarks:	Based on data from similar materials
	Dased off data from similar materials
<γ-butyrolactone>	Pactorial reverse mutation assay (AMES)
Test Type: Result:	Bacterial reverse mutation assay (AMES)
	negative Not classified based on available information.
Carcinogenicity	
Components:	
<2-Butoxyethyl acetate>	Det
Species:	Rat
Application Route:	inhalation (vapour)
Exposure time:	2 Years
Result:	negative
Remarks:	Based on data from similar materials
<γ-butyrolactone>	
Species:	Rat
Application Route:	
Exposure time:	103 weeks
Result:	negative
Reproductive toxicity	Not classified based on available information.
Components:	
<2-Butoxyethyl acetate>	
Effects on fertility	
Test Type:	Two-generation reproduction toxicity study
Species:	Mouse
Application Route:	Ingestion
Result:	negative
Remarks:	Based on data from similar materials
Effects on foetal development	
Test Type:	Embryo-foetal development
Species:	Rat
Application Route:	Ingestion
Result:	negative
Remarks:	Based on data from similar materials
<γ-butyrolactone>	
Effects on fertility	
Test Type:	Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species:	Rat
Application Route:	Ingestion
Method:	OECD Test Guideline 422
Result:	negative
Remarks:	Based on data from similar materials
Effects on foetal developme	
Test Type:	Embryo-foetal development



Species:	Rat
Application Route:	Ingestion
Remarks:	Based on data from similar materials
Result:	negative
STOT - single exposure:	Not classified based on available information.
Components:	
<γ-butyrolactone>	
Assessment:	May cause drowsiness or dizziness.
STOT - repeated exposure:	Not classified based on available information.
Repeated dose toxicity	
Components:	
<2-Butoxyethyl acetate>	
Species:	Rat, male
NOAEL:	< 69 mg/kg
Application Route:	ngestion
Exposure time:	90 d
<γ-butyrolactone>	
Species:	Rat
NOAEL:	225 mg/kg
Application Route:	Ingestion
Exposure time:	13 w
Aspiration toxicity:	Not classified based on available information.
12. ECOLOGICAL INFORMATION	NC
12.1 Toxicity	
Components:	
<2-Butoxyethyl acetate>	
Toxicity to fish:	LC50 (Oncorhynchus mykiss (rainbow trout)): 28 mg/l Exposure time: 96 h
	Method: OECD Test Guideline 203
Toxicity to daphnia and	EC50 (Daphnia magna (Water flea)): 37 mg/l
other aquatic invertebrates:	•
Toxicity to algae:	EC50 (Pseudokirchneriella subcapitata (green algae)): 1,570 mg/l
	Exposure time: 72 h
	Method: ISO 8692
Toxicity to bacteria:	IC50 : 2,800 mg/l Exposure time: 16 h
Toxicity to daphnia and	EC10: 30.4 mg/l
other aquatic invertebrates (Chronic toxicity):	Exposure time: 7 d Species: Ceriodaphnia dubia (water flea)

<q-butyrolactone>

Toxicity to fish:

Exposure time: 96 hToxicity to daphnia and
other aquatic invertebrates:EC50 (Daphnia magna (Water flea)): > 500 mg/l
Exposure time: 48 hToxicity to algae:EC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l
Exposure time: 72 h

LC50 (Lepomis macrochirus (Bluegill sunfish)): 56 mg/l



Toxicity to bacteria:	NOEC (Desmodesmus subspicatus (green algae)): 31.25 mg/l Exposure time: 72 h IC50 : 4,518 mg/l Exposure time: 40 h	
12.2 Persistence and degradabilit	•	
Components:		
<2-Butoxyethyl acetate>		
Biodegradability:	Result: Readily biodegradable. Biodegradation: 88 % Exposure time: 28 d	
<γ-butyrolactone>		
Biodegradability:	Result: Readily biodegradable. Biodegradation: 77 % Exposure time: 14 d Method: OECD Test Guideline 301C	
12.3 Bioaccumulative potential		
Components:		
<2-Butoxyethyl acetate>		
Partition coefficient: n-octanol/water:	log Pow: 1.51	
<γ-butyrolactone>		
Partition coefficient: n-octanol/water:	log Pow: -0.566	
12.4 Mobility in soil		
No data available		
12.5 Results of PBT and vPvB as	sessment	
Not relevant		
12.6 Other adverse effects		
No data available		
13. DISPOSAL CONSIDERATIONS 13.1 Waste treatment methods		
Product: Contaminated packaging:	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. Dispose of as unused product. Empty containers should be taken to an approved waste	
	handling site for recycling or disposal. Do not burn, or use a cutting torch on, the empty drum.	

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 Not applicable the Council concerning the export and import of dangerous chemicals:

REACH - Candidate List of Substances of Very High Concern Not applicable for Authorisation (Article 59).:

Regulation (EC) No 1005/2009 on substances that deplete the Not applicable ozone layer:

Regulation (EC) No 850/2004 on persistent organic pollutants: Not applicable Seveso II - Directive 2003/105/EC amending Council Directive Not applicable 96/82/EC on the control of major-accident hazards involving dangerous substances:

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out.

16. OTHER INFORMATION

Full text of R-Phrases

R20/21/22: Harmful by inhalation, in contact with skin and if swallowed. R22:Harmful if swallowed.

R41:Risk of serious damage to eyes.

R67:Vapours may cause drowsiness and dizziness.

Full text of H-Statements

H302: Harmful if swallowed.

H312: Harmful in contact with skin.

H318: Causes serious eye damage.

H332: Harmful if inhaled.

H336:May cause drowsiness or dizziness.

Full text of other abbreviations

Acute Tox.:	Acute toxicity.
Eye Dam.:	Serious eye damage.
STOT SE:	Specific target organ toxicity - single exposure.
2000/39/EC:	Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
GB EH40:	UK. EH40 WEL - Workplace Exposure Limits.
2000/39/EC / TWA:	Limit Value - eight hours.
2000/39/EC / STEL:	Short term exposure limit.
GB EH40 / TWA:	Long-term exposure limit (8-hour TWA reference period).
GB EH40 / STEL:	Short-term exposure limit (15-minute reference period).



Further information

Sources of key data used to compile the Safety Data Sheet:

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

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