

SAFETY DATA SHEET

Sheet mount cleaning kit A IP7-225

OKI DATA CORPORATION



Safety Data Sheet

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

1.1 Product identifier Product Name : Sheet mount cleaning kit A

Product Code: IP7-225

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 Corporation

4-11-22 Shibaura, Minato-ku, Tokyo, Japan

Tel: +81-(0)3-5445-6111

Distributor: OKI Data (Australia) Pty Ltd.

Level 1 67 Epping Road, Macquarie Park NSW 2113, Australia

Tel: +61-2-8071-0000

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

<Regulation (EC) No. 1272/2008>

Classification

Skin irritation, Category 2 H315: Causes skin irritation.

Serious eye damage, Category 1 H318: Causes serious eye damage.

2.2 Label elements

<Regulation (EC) No. 1272/2008>

Hazard pictograms



Signal word: Danger

Hazard statements Causes skin irritation.

Causes serious eye damage.

Precautionary statements

Prevention: Wear eye protection/ face protection.

Wear protective gloves/ protective clothing.

Response: 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.

IF ON SKIN: Wash with plenty of water. Call a POISON

CENTER or doctor/ physician if you feel unwell.

Take off contaminated clothing and wash it before reuse.

Hazardous components which must be listed on the label:

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.	Registration number	Classification (REGULATION (EC) No 1272/2008)
bis(2-ethoxyethyl)ether	>90	112-36-7	203-963-7	-	Skin Irrit. 2; H315
γ-butyrolactone	<10	96-48-0	202-509-5	-	Acute Tox. 4; H302 Eye Dam. 1; H318 STOT SE 3; H336

4. FIRST-AID MEASURES

4.1 Description of first aid measures

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 and effects, both acute and delayed

Risks: Causes skin irritation.

Causes serious eye damage.

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 Water spray

media: 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

products:

Carbon oxides

5.3 Advice for firefighters

Special protective equipment In the event of fire, wear self-contained breathing apparatus.

for firefighters:

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.

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

Methods for cleaning up: Non-sparking tools should be used.

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

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

bis(2-ethoxyethyl)ether End Use: Workers

Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 50.5 mg/m3 End Use: Workers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 3.43 mg/kg bw/day End Use: Consumers Exposure routes: Inhalation

Potential health effects: Long-term systemic effects

Value: 5.96 mg/m3 End Use: Consumers

Exposure routes: Skin contact

Potential health effects: Long-term systemic effects

Value: 1.71 mg/kg bw/day End Use: Consumers Exposure routes: Ingestion

Potential health effects: Long-term systemic effects

Value: 300 mg/kg bw/day

γ-butyrolactone: 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 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:

y-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

Value: 0.0147 mg/kg

8.2 Exposure controls

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 equipment

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: Nitrile rubber

butyl-rubber

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).

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 No data available

range:

Flash point:

71 °C

Method: Cleveland open cup

Evaporation rate:

Flammability (solid, gas)

Upper explosion limit:

Lower explosion limit:

Vapour pressure:

Relative vapour density:

No data available

Water solubility: soluble Solubility in other solvents soluble

Solvent: organic solvents

Partition coefficient:

n-octanol/water:

Not applicable

Auto-ignition temperature: No data available
Thermal decomposition: No data available
Viscosity, dynamic: 5 - 15 mPa.s (25 °C)

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 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: 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 products

No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Information on likely routes Inhalation, Skin contact, Ingestion,

of exposure:

Acute toxicity: Not classified based on available information.

<Bis(2-ethoxyethyl) ether>

Acute oral toxicity: LD50 (Rat): 4,970 mg/kg

<γ-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: Causes skin irritation.

<Bis(2-ethoxyethyl) ether>

Result: Skin irritation

Remarks: Based on data from similar materials

<γ-butyrolactone>

Species: Rabbit

Result: No skin irritation

Serious eye damage/eye irritation: Causes serious eye damage.

<Bis(2-ethoxyethyl) ether>

Species: Rabbit

Method: OECD Test Guideline 405

Result: No eye irritation

<γ-butyrolactone>

Species: Rabbit

Method: OECD Test Guideline 405
Result: Irreversible effects on the eye

Respiratory or skin sensitisation

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

<Bis(2-ethoxyethyl) ether>



Test Type: Local lymph node assay (LLNA)

Exposure routes: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: negative

Remarks: Based on data from similar materials

<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.

<Bis(2-ethoxyethyl) ether>

Genotoxicity in vitro Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Remarks: Based on data from similar materials

<γ-butyrolactone>

Genotoxicity in vitro Test Type: Bacterial reverse mutation assay (AMES)

Result: negative

Carcinogenicity Not classified based on available information.

<γ-butyrolactone>

Species: Rat

Application Route: Ingestion
Exposure time: 103 weeks
Result: negative

Reproductive toxicity Not classified based on available information.

<Bis(2-ethoxyethyl) ether>

Effects on fertility Test Type: One-generation reproduction toxicity study

Species: Rat

Application Route: Ingestion

Result: negative

Remarks: Based on data from similar materials

Test Type: Embryo-foetal development

Effects on foetal

development Species: Rabbit

Application Route: Ingestion

Result: negative

<y-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 development

Test Type: Embryo-foetal development

Species: Rat

Application Route: Ingestion

Result: negative



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

<v-butyrolactone>

May cause drowsiness or dizziness. Assessment:

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

Repeated dose toxicity

<Bis(2-ethoxyethyl) ether>

Rat Species:

NOAEL: 2.49 mg/l

inhalation (dust/mist/fume) Application Route:

4 w Exposure time:

Method: **OECD Test Guideline 412**

<y-butyrolactone>

Rat Species:

NOAEL: 225 mg/kg Application Route: Ingestion Exposure time: 13 w

Not classified based on available information. Aspiration toxicity:

12. ECOLOGICAL INFORMATION

12.1 Toxicity

<Bis(2-ethoxyethyl) ether>

LC50 : > 10,000 mg/lToxicity to fish:

Exposure time: 96 h

Toxicity to daphnia and other aquatic LC50: 6,600 mg/l invertebrates: Exposure time: 96 h NOEC : > 1,000 mg/lToxicity to bacteria:

Exposure time: 3 h

Method: OECD Test Guideline 209

Toxicity to daphnia and other aquatic EC10: 7.38 mg/l invertebrates (Chronic toxicity): Exposure time: 7 d

> Species: Ceriodaphnia dubia (water flea) Remarks: Based on data from similar materials

<y-butyrolactone>

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

Exposure time: 96 h

Toxicity to daphnia and other aquatic EC50 (Daphnia magna (Water flea)): > 500 mg/l

invertebrates: Exposure time: 48 h

Toxicity to algae: EC50 (Desmodesmus subspicatus (green algae)): > 500 mg/l

Exposure time: 72 h

NOEC (Desmodesmus subspicatus (green algae)): 31.25 mg/l

Exposure time: 72 h

IC50: 4,518 mg/l Toxicity to bacteria:

Exposure time: 40 h

12.2 Persistence and degradability

<Bis(2-ethoxyethyl) ether>

Biodegradability: Result: Not readily biodegradable.

> Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 301F



<γ-butyrolactone>

Biodegradability: Result: Readily biodegradable.

Biodegradation: 77 % Exposure time: 14 d

Method: OECD Test Guideline 301C

12.3 Bioaccumulative potential

<Bis(2-ethoxyethyl) ether>

Partition coefficient: n-octanol/water: log Pow: 0.39

<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 assessment

Not relevant

12.6 Other adverse effects

No data available

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.

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 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

Full text of H-Statements

H302: Harmful if swallowed. H315: Causes skin irritation.

H318: Causes serious eye damage.

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.

GB EH40 / TWA: Long-term exposure limit (8-hour TWA 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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