

No. Q54-2331

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Version: 2

Safety Data Sheet

1. Identification of the substance/mixture and company/undertaking

1.1 Product identifier Product Name : Ink Cartridge(Yellow)

Product Code: IP6-221/IP6-231

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: Seiko I Infotech Inc.

563, Takatsuka-Shinden, Matsudo-shi, Chiba, 270-2222, Japan

Tel:+81-47-391-2349

Distributor: Seiko Instruments GmbH

Siemensstrase 9, D-63263 Neu-Isenburg

Germany

Tel: +49-6102-297-0

2. Hazards identification

2.1 Classification of the substance or mixture

<Regulation (EC) No. 1272/2008>

Classification: Eye Irrit 2, H319

<1999/45/EC >

Classification: Irritant preparation

2.2 Label elements

<1999/45/EC >

Symbols of danger: X

R-phrase: R36 Irritating to eyes.

Precautionary statements

2.3 Other hazards

prevention Wear eye protection/face protection.

Do not breathe mist/vapours/spray.

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.

Get medical advice/attention if you feel unwell.

storage Store in a well-ventilated place. Keep container tightly closed.

disposal Dispose of contents/container to incineration in accordance with

local/national regulation.

Supplemental

information

None.

2.3 Other hazards

The hazardous properties of this product have not been fully

investigated, so handle and dispose of with caution.

3. Composition/information on ingredients

Substance / Mixture: Mixture

Main Ingredients	Content(%)	CAS No.	EC No.	EU Reg.No.	Classification EC No. 1272/2008	Classification 67/548/EEC
bis(2- ethoxyethyl)ether	70-80	112-36-7	203-963-7	NA	Eye Irrit 2, H319	Xi , R36
γ-butyrolactone	<10	96-48-0	202-509-5	NA	Acute Tox 4, H302; Eye Irrit 2, H319	Xn, R22,R36
(2- methoxymethylet hoxy)propanol	<10	34590-94-8	252-104-2	NA	None	None

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

NA: not available

4. First aid measures

4.1 Description of first aid measures

Inhalation: Move to fresh air area. Call a physician

Skin Contact: In case of contact, immediately wash skin with soap and

plenty of water. If irritation develops, get medical attention.

Remove contaminated clothing and shoes.

Eye Contact: In case of contact, immediately flush eyes with plenty of

water for at least 15 minutes. If irritation develops, get

medical attention.

Ingestion: If swallowed, seek medical advice immediately.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

See Section 4.1.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Use water spray, carbon dioxide, dry chemical powder or

foam.

Unsuitable Extinguishing Media

None.

5.2 Special hazards arising from the substance or mixture

Specific Hazards Irritant, corrosive and/or toxic gas may be generated by a

fire.

5.3 Advice for firefighters

Specific Fire Fighting Carry out fire-fighting at the safe and effective distance from

the fire, or use a unattended hose-holding unit, or a nozzle

with a monitor.

Protection of Fire Fighters

In fire-extinguishing activity, wear an appropriate air breathing apparatus and full protective clothing for

chemicals.

Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not touch the leakage, and do not walk on it. Prohibit unauthorized entry into the area. Wear appropriate personal protective equipment and avoid inhalation or contact with eyes and skin. If not wearing an appropriate personal protective clothing, do not touch the damaged leakage.

6.2 Environmental precautions

Do not release into the environment. Pay attention not to cause the influence on the environment by discharging into rivers.

6.3 Methods and material for containment and cleaning up

Decontamination/Absorption/Sweeping/Vacuuming/Neutralization

In case of small quantity, absorb the leakage with dry soil, sand, and incombustible-material or collect it into acontainer that can be covered tightly for later disposal. In case of small quantity, use clean and anti-static tools to collect absorbed materials. In case of large quantity, prevent the spills from spreading with embankment to lead them to a safe place for collection. Collect the material into a disposal container by sucking up or sweeping up.

Methods and Equipment for Containment and Cleaning up

All devices to handle spills must be grounded.

If not dangerous, stop the leak. Small amount: Prevent the material from wetting by rain. Cover with dry soil, dry sand, or non-combustibles and store under a plastic sheet cover to avoid scattering and wetting. Cleansing the contaminated area thoroughly with water after removal.

Prevention Measures for Secondary Accidents.

Removes all ignition sources promptly. (Prohibition of smoking, sparks, and flames in the surrounding area) Prevent flowing into drain, sewage, basement, and closed area.

6.4. Reference to other sections

See Section 8 and 13

7. Handling and storage

7.1 Precautions for safe handling

Technical Measures

See Section 8.2.

Local and General Ventilation

Provide local ventilations and a full ventilation system.

Precautions for Safe Handling

Prohibit the use of heat, sparks, and fire in the surrounding area.

Wash hands thoroughly after handling.

Avoid swallowing.

Avoid the contact with the skin.

Prevents Handling of Incompatible Substances or Mixtures

Not required in the normal handling."

7.2 Conditions for safe storage, including any incompatibilities

Store away from oxidants.

Have containers keep away from direct sunlight and heat. Store in a well-ventilated and cool place keeping container

tightly closed.

7.3 Specific end use(s)

Imcompatible Substances or Mixtures

Refer to "10. Stability and reactivity"

Storage Conditions

Store the ink cartridges in a cool and dark place.

Keep out of reach of children.

Material Used in Packaging/Containers

Use containers prescribed in the "UN Transport Regulations."

8. Exposure controls/personal protection

8.1 Control parameters

EU limit values (2-methoxymethylethoxy)propanol: IOELV: 8 h TWA, 308

mg/m3(50 ppm).

UK limit values (2-methoxymethylethoxy)propanol: WEL: 8 h TWA, 308 mg/m3

(50ppm).

8.2 Exposure controls

Engineering Controls

Use Local exhaust ventilation.

Personal Protective Equipment

Respiratory Protection

Respirator to avoid breathing organic solvent vapor.

Hand Protection

Ware chemical resistant gloves.

Eye Protection

Use safety glasses or goggles.

Skin and Body Protection

Wear working clothes.

Specific Hygiene Measures

Wash hands thoroughly after handling.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical State Liquid
Color Yellow
Odor Solvent odor
Odour threshold Not available
pH Not available
Melting/freezing point Not available
Initial boiling point/range Not available

Flash point 71°C

Evaporation rate Not available Flammability (solid, gas) Not available

Flamm. or expl. limits 1.4 - 6.9 v/v% as y-Butyrolactone

1.3 – 10.4v/v% as (2-Methoxymethylethoxy)propanol

Vapour pressure Not available
Vapour density Not available
Relative density 0.9 to 1.1
Solubilities Soluble in water

Partition coefficient: n-octanol/water

Not available Not available Not available

Viscosity 5 to 15 mPa.s (25 °C)

Explosive properties Not available Oxidising properties Not available

9.2 Other information

No information available.

Stability and reactivity

10.1 Reactivity

No information available.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Auto-ignition temp.

Decomposition temp.

No information available.

10.4 Conditions to avoid

Extremely high temperature

Oxidising agents, strong bases and transition metals

10.6. Hazardous decomposition products

No information available

11. Toxicological information

11.1 Information on toxicological effects

Acute toxicity No data available. Skin corrosion/irritation No data available.

Serious eye damage/irritation

May cause eye irritation.

Respiratory or skinsensitisation

No data available.

Germ cell mutagenicity No data available. Carcinogenicity No data available. Reproductive toxicity STOT-single exposure No data available.

STOT-repeated exposure

No data available.

Aspiration hazard No data available.

12. Ecological information

12.1 Toxicity

No information available.

12.2 Persistence and degradability

No information available.

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

PBT Not applicable. vPvB Not applicable.

12.6 Other adverse effects

Environmental Hazards

No information available

13. Disposal considerations

13.1 Waste treatment methods

Comply with national and local environmental regulations. Do not dump this product into sewers, on the ground or into any body of water.

water

14. Transport information

14.1 UN number

Not classified as dangerous goods according to UN criteria.

14.2 UN proper shipping name

Not applicable.

14.3 Transport hazard class(es)

Not applicable.

14.4 Packing group

Not applicable.

14.5 Environmental hazards

Not classified as environmentally hazardous.

14.6 Special precautions for user

Not applicable.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable.

Follow all regulations in your country.

15. Regulatory information

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

UK: Control of Substances Hazardous to Health Regulations

2002(COSHH).

Workplace Exposure Limits EH40/2005, with 2007 supplement, Health

and Safety Executive.

This safety datasheet complies with the requirements of Regulation

(EC) No. 1907/2006.

15.2 Chemical safety assessment

No information available.

16. Other information

Abbreviations PBT, persistent, bioaccumulative, and toxic; STEL, short-term

exposure limit; STOT SE, specific target organ toxicity single

exposure; TWA, time-weighted average; vPvB, very persistent, very

bioaccumulative.

References Annex VI of Regulation 1272/2008 on Harmonised Classification

andLabelling for Certain Hazardous Substances.

Existing Chemical Substances Information System (ESIS) available at

the European Chemical Bureau website:

http://ecb.jrc.ec.europa.eu/esis/

Information on Registered Substances; Chemical Substance Search; European Chemicals Agency (ECHA), available at the ECHA website:

http://echa.europa.eu.

Basis of classification The mixture is self-classified on the basis of available informationon

the ingredients.

List of R-phrases R22, harmful if swallowed.

R36, irritating to eyes.

List of hazard statements H302: Harmful if swallowed.

H319: Causes serious eye irritation.

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