

Safety Data Sheet

Issue date: 2017/12/6

Revision date: 2021/11/9

Version: 2

SECTION 1: Identification of the substance/mixture and of the company/undertaking**Product Identifier**

Substance or Mixture name : PIGMA MICRON 005 PEN 0.20MM
Item code: XSDK005-49, XSDK005-36, XSDK005-19, XSDK005-29
XSDK005-12, XSDK005-24, XSDK005-05, XSDK005-21
XSDK005-117, XSDK005-42, XSDK005-44

EC No. :

REACH No. :

CAS No. :

Relevant identified uses of the substance or mixture and uses advised against

Sector of uses [SU] : Consumer uses: Private households (= general public = consumers)
Use of the substance/mixture : Ink and toners
Uses advised against : see section 16 for a general overview

Details of the Supplier of the Safety Data Sheet

Supplier : Sakura Color Products Corp. Quality Management Department
Address : 7-18-47, Kano, Higashi-osaka, Osaka, Japan
P.O.Box : 578-0901
Telephone : +81-(0)72-873-1295
Telefax : +81-(0)72-873-5505
E-Mail :

Emergency telephone number

Emergency telephone number : +81-(0)72-873-1295
Remark : Only available during office hours.

SECTION 2: Hazards identification**Classification of the substance or mixture:**

This product is approved by ACMI (The Art & Creative Material Institute, Inc.), and carries the "AP" seal of non-toxic approval in USA.

This product is not considered hazardous in normal use as required under OSHA's Hazardous Communication Standard 29 CFR 1910.1200.

SECTION 3: Composition / information on ingredients

: Mixtures

Substance	% (weight)	CAS No.	Trade Secret
Ethane-1,2-diol, vapour	7.2-16	107-21-1	
2-Butoxyethanol	0-1.0	111-76-2	
Carbon black	0-9.0	1333-86-4	
Water, Pigment, Resin, Additive			v

SECTION 4: First aid measures**Description of first aid measures****General information :**

Seek medical advice immediately.

Following inhalation:

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

Following skin contact

Wash immediately with : Water and soap

In the case of contact with hot melt, treat skin with :

No data available

Do not wash with : No data available

After eye contact:

In case of eye irritation consult an ophthalmologist. Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion :

Rinse mouth thoroughly with water.

If swallowed immediately drink :

No data available

Self-protection of the first aider :

No data available

Most important symptoms and effects, both acute and delayed**Symptoms**

The following symptoms may occur :

No data available

Effects :

No data available

Indication of any immediate medical attention and special treatment needed**Notes for the doctor :**

No data available

Special treatment :

No data available

SECTION 5: Firefighting measures**Extinguishing media**

Suitable extinguishing media :

Water ABC-powder Carbon dioxide (CO2) Dry sand Water spray

Unsuitable extinguishing media:

Not applicable

Special hazards arising from the substance or mixture

Hazardous combustion products :

No data available

Advice for firefighters

Special protective equipment for firefighters:

No data available

Additional information:

The product itself does not burn.

SECTION 6: Accidental release measures**Personal precautions,protective equipment and emergency procedures****Personal precautions :**

No data available

Protective equipment :

No data available

Emergency procedures :

Provide adequate ventilation.

Enviromental precautions :

Do not allow to enter into surface water or drains.

Methods and materials for containment and cleaning up**For containment**

Suitable material for taking up:

No data available

For cleaning up

Suitable material for diluting or neutralising :

No data available

Reference to other sections :

Disposal: see section 13

SECTION 7: Handling and storage**Precautions for safe handling****Protective measure****Advice on safe handling**

Avoid : Not applicable
 Handle under (gas) : Not applicable
 Handle under (liquid): Not applicable
 Remark: No data available

Measures to prevent fire

Keep wet with : Not applicable
 Do not mix with : No data available
 Keep away from : No data available
 Remark: No data available

Measures to prevent aerosol and dust generation

During filling, metering and sampling should be used if possible:
 Not applicable
 Use the following local exhaust ventilation type :
 Not applicable

Environmental precaution :

Not applicable

Special requirements or handling rules :

Not applicable

Advice on general occupational hygiene :

Not applicable

Conditions for safe storage, including any incompatibilities**Packaging materials**

Suitable container/equipment material: No data available

Unsuitable container/equipment material: Not applicable

Hints on joint storage

Storage class : no classification

Materials to avoid : Not applicable

Further information on storage conditions : No data available

SECTION 8: Exposure controls/personal protection**Control parameters****Occupational exposure limit values**

Ingredient	CAS NO.	Country	TWA		STEL		Ceiling	
			ppm	mg/m3	ppm	mg/m3	ppm	mg/m3
Ethane-1,2-diol, vapour	107-21-1	US	25		50			
2-Butoxyethanol	111-76-2	US	5	24				
Carbon black	1333-86-4	US		0.1				

Biological limit values

Ingredient	CAS NO.	EC No	Country	Unit	Limit value	Parameter
2-Butoxyethanol	111-76-2	203-905-0	US	mg/g creatinine	200	Butoxyacetic acid (BAA)

Exposure controls**Appropriate engineering controls**

Initial Remarks : See section 7. No additional measures necessary.

Substance/mixture related measures to prevent exposure during identified users :
 No data available

Technical measures to prevent exposure :
 No data available

Personal protection equipment**Eye/face protection**

Suitable eye protection : No data available

Remark: No data available

Skin protection

Hand protection

Suitable gloves type : No data available

Suitable material : No data available

Required properties : No data available

Remark: No data available

Body protection

Suitable protective clothing : No data available

Required properties : No data available

Recommended material : No data available

Respiratory protection

Respiratory protection necessary at :

No data available

According to experience this refers to the following tasks :

No data available

Suitable respiratory protection apparatus :

No data available

Remarks :

No data available

Environmental exposure controls**Technical measures to prevent exposure**

Use the following filter types for cleaning waste gases :

No data available

Use the following recovery and/or abatement technique for cleaning waste gases :

No data available

Use the following chemical treatment methods for waste water :

No data available

SECTION 9: Physical and chemical properties

Physical state	liquid
Color	black/ blue/ red/ green/ brown/ purple/ orange rose/ sepia/ light cool gray/ cool gray
Odour	odourless
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	about 100°C
Flash point	No data available
Evaporation rate	No data available
Flammability	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Density	No data available
Solubility(ies)	Soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available

SECTION 10: Stability and reactivity

Reactivity : No data available

Chemical stability : The product is chemically stable under recommended conditions of storage, use and temperature.

Possibility of hazardous reactions**In case of melting :**

No data available

In case of vaporization :

No data available

In case of freezing :

No data available

Condition to avoid**In dry state :**

No data available

In an isolated state :

No data available

In fine dispersion/spraying/misting :

No data available

In case of warming :

No data available

In case of light influence :

No data available

In case of impact or pressure influence :

No data available

In case of air intake :

No data available

In case of exceeding the storage time :

No data available

In case of exceeding the storage temperature :

No data available

Incompatible materials**Materials to avoid**

No data available

Hazardous decomposition products:

No data available

Additional information

No data available

SECTION 11: Toxicological information

This product is approved by ACMI (The Art & Creative Material Institute, Inc.), and carries the "AP" seal of non-toxic approval in USA.

SECTION 12: Ecological information**Hazardous to the aquatic environment-Acute hazard:**

No data available

Hazardous to the aquatic environment-Chronic hazard:

No data available

Hazardous to the ozone layer :

No data available

Additional ecotoxicological information:

No data available

SECTION 13: Disposal considerations**Waste treatment methods****Product/packaging disposal**

Properties of waste which render it hazardous :

No data available

Waste treatment option :

Appropriate disposal/Product

Dispose of waste according to applicable legislation.

Appropriate disposal/Package

No data available

Remarks :

Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information**UN number**

Land transport(ADR/RID)	Not applicable
Inland waterway transport(ADN)	Not applicable
Sea transportation(IMDG)	Not applicable
Air transportationICAO-TI/IATA-DGR	Not applicable

UN proper shipping name

Land transport(ADR/RID)	Not applicable
Inland waterway transport(ADN)	Not applicable
Sea transportation(IMDG)	Not applicable
Air transportationICAO-TI/IATA-DGR	Not applicable

Transport hazard class(es)

Land transport(ADR/RID)	Not applicable
Inland waterway transport(ADN)	Not applicable
Sea transportation(IMDG)	Not applicable
Air transportationICAO-TI/IATA-DGR	Not applicable

Packing group

Land transport(ADR/RID)	Not applicable
Inland waterway transport(ADN)	Not applicable
Sea transportation(IMDG)	Not applicable
Air transportationICAO-TI/IATA-DGR	Not applicable

Environmental hazards

Land transport(ADR/RID)	No data available
Inland waterway transport(ADN)	No data available
Sea transportation(IMDG)	No data available
Air transportationICAO-TI/IATA-DGR	No data available

Transport in bulk according to

MARPOL 73/78 and the IBC Code.

Marine pollutant :

Not applicable
Not applicable

SECTION 15: Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture****US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory :**

Not SNUR,ACTIVE;

National Toxicology Program (NTP) Report on Carcinogens-Substances listed :

Not available

Agents classified by International Agency for Research on Cancer(IARC) monographs :

CASNO:1333-86-4,Carbon black,2B ;

Occupational Safety and Health Act (OSHA) Standard related to carcinogens :

Not available

Proposition 65 Safe Drinking Water and Toxic Enforcement Act of 1986 :

CASNO:1333-86-4,Carbon black (airborne, unbound particles of respirable size),cancer ;

CASNO:107-21-1,Ethylene glycol (ingested),developmental ;

Chemical Safety Assessment

No data available

SECTION 16: Other information**Date of preparation:**

2021/11/9

Version number:

XSDK005211109US-2

Data sources:

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Safety Data Sheet

Issue date: 2017/12/6

Revision date: 2021/11/9

Version: 2

SECTION 1: Identification of the substance/mixture and of the company/undertaking**Product Identifier**

Substance or Mixture name : PIGMA MICRON 01 PEN 0.25MM
Item code: XSDK01-49, XSDK01-36, XSDK01-19, XSDK01-29
XSDK01-12, XSDK01-24, XSDK01-05, XSDK01-21
XSDK01-117, XSDK01-42, XSDK01-44

EC No. :

REACH No. :

CAS No. :

Relevant identified uses of the substance or mixture and uses advised against

Sector of uses [SU] : Consumer uses: Private households (= general public = consumers)
Use of the substance/mixture : Ink and toners
Uses advised against : see section 16 for a general overview

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P.O.Box : 578-0901
Telephone : +81-(0)72-873-1295
Telefax : +81-(0)72-873-5505
E-Mail :

Emergency telephone number

Emergency telephone number : +81-(0)72-873-1295
Remark : Only available during office hours.

SECTION 2: Hazards identification**Classification of the substance or mixture:**

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SECTION 3: Composition / information on ingredients

: Mixtures

Substance	% (weight)	CAS No.	Trade Secret
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2-Butoxyethanol	0-1.0	111-76-2	
Carbon black	0-9.0	1333-86-4	
Water, Pigment, Resin, Additive			v

SECTION 4: First aid measures**Description of first aid measures****General information :**

Seek medical advice immediately.

Following inhalation:

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

Following skin contact

Wash immediately with : Water and soap

In the case of contact with hot melt, treat skin with :

No data available

Do not wash with : No data available

After eye contact:

In case of eye irritation consult an ophthalmologist. Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion :

Rinse mouth thoroughly with water.

If swallowed immediately drink :

No data available

Self-protection of the first aider :

No data available

Most important symptoms and effects, both acute and delayed**Symptoms**

The following symptoms may occur :

No data available

Effects :

No data available

Indication of any immediate medical attention and special treatment needed**Notes for the doctor :**

No data available

Special treatment :

No data available

SECTION 5: Firefighting measures**Extinguishing media**

Suitable extinguishing media :

Water ABC-powder Carbon dioxide (CO2) Dry sand Water spray

Unsuitable extinguishing media:

Not applicable

Special hazards arising from the substance or mixture

Hazardous combustion products :

No data available

Advice for firefighters

Special protective equipment for firefighters:

No data available

Additional information:

The product itself does not burn.

SECTION 6: Accidental release measures**Personal precautions,protective equipment and emergency procedures****Personal precautions :**

No data available

Protective equipment :

No data available

Emergency procedures :

Provide adequate ventilation.

Enviromental precautions :

Do not allow to enter into surface water or drains.

Methods and materials for containment and cleaning up**For containment**

Suitable material for taking up:

No data available

For cleaning up

Suitable material for diluting or neutralising :

No data available

Reference to other sections :

Disposal: see section 13

SECTION 7: Handling and storage**Precautions for safe handling****Protective measure****Advice on safe handling**

Avoid : Not applicable
 Handle under (gas) : Not applicable
 Handle under (liquid): Not applicable
 Remark: No data available

Measures to prevent fire

Keep wet with : Not applicable
 Do not mix with : No data available
 Keep away from : No data available
 Remark: No data available

Measures to prevent aerosol and dust generation

During filling, metering and sampling should be used if possible:
 Not applicable
 Use the following local exhaust ventilation type :
 Not applicable

Environmental precaution :

Not applicable

Special requirements or handling rules :

Not applicable

Advice on general occupational hygiene :

Not applicable

Conditions for safe storage, including any incompatibilities**Packaging materials**

Suitable container/equipment material: No data available

Unsuitable container/equipment material: Not applicable

Hints on joint storage

Storage class : no classification

Materials to avoid : Not applicable

Further information on storage conditions : No data available

SECTION 8: Exposure controls/personal protection**Control parameters****Occupational exposure limit values**

Ingredient	CAS NO.	Country	TWA		STEL		Ceiling	
			ppm	mg/m3	ppm	mg/m3	ppm	mg/m3
Ethane-1,2-diol, vapour	107-21-1	US	25		50			
2-Butoxyethanol	111-76-2	US	5	24				
Carbon black	1333-86-4	US		0.1				

Biological limit values

Ingredient	CAS NO.	EC No	Country	Unit	Limit value	Parameter
2-Butoxyethanol	111-76-2	203-905-0	US	mg/g creatinine	200	Butoxyacetic acid (BAA)

Exposure controls**Appropriate engineering controls**

Initial Remarks : See section 7. No additional measures necessary.

Substance/mixture related measures to prevent exposure during identified users :
 No data available

Technical measures to prevent exposure :
 No data available

Personal protection equipment**Eye/face protection**

Suitable eye protection : No data available

Remark: No data available

Skin protection

Hand protection

Suitable gloves type : No data available

Suitable material : No data available

Required properties : No data available

Remark: No data available

Body protection

Suitable protective clothing : No data available

Required properties : No data available

Recommended material : No data available

Respiratory protection

Respiratory protection necessary at :

No data available

According to experience this refers to the following tasks :

No data available

Suitable respiratory protection apparatus :

No data available

Remarks :

No data available

Environmental exposure controls**Technical measures to prevent exposure**

Use the following filter types for cleaning waste gases :

No data available

Use the following recovery and/or abatement technique for cleaning waste gases :

No data available

Use the following chemical treatment methods for waste water :

No data available

SECTION 9: Physical and chemical properties

Physical state	liquid
Color	black/ blue/ red/ green/ brown/ purple/ orange rose/ sepia/ light cool gray/ cool gray
Odour	odourless
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	about 100°C
Flash point	No data available
Evaporation rate	No data available
Flammability	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Density	No data available
Solubility(ies)	Soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available

SECTION 10: Stability and reactivity

Reactivity : No data available

Chemical stability : The product is chemically stable under recommended conditions of storage, use and temperature.

Possibility of hazardous reactions**In case of melting :**

No data available

In case of vaporization :

No data available

In case of freezing :

No data available

Condition to avoid**In dry state :**

No data available

In an isolated state :

No data available

In fine dispersion/spraying/misting :

No data available

In case of warming :

No data available

In case of light influence :

No data available

In case of impact or pressure influence :

No data available

In case of air intake :

No data available

In case of exceeding the storage time :

No data available

In case of exceeding the storage temperature :

No data available

Incompatible materials**Materials to avoid**

No data available

Hazardous decomposition products:

No data available

Additional information

No data available

SECTION 11: Toxicological information

This product is approved by ACMI (The Art & Creative Material Institute, Inc.), and carries the "AP" seal of non-toxic approval in USA.

SECTION 12: Ecological information**Hazardous to the aquatic environment-Acute hazard:**

No data available

Hazardous to the aquatic environment-Chronic hazard:

No data available

Hazardous to the ozone layer :

No data available

Additional ecotoxicological information:

No data available

SECTION 13: Disposal considerations**Waste treatment methods****Product/packaging disposal**

Properties of waste which render it hazardous :

No data available

Waste treatment option :

Appropriate disposal/Product

Dispose of waste according to applicable legislation.

Appropriate disposal/Package

No data available

Remarks :

Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information**UN number**

Land transport(ADR/RID)	Not applicable
Inland waterway transport(ADN)	Not applicable
Sea transportation(IMDG)	Not applicable
Air transportationICAO-TI/IATA-DGR	Not applicable

UN proper shipping name

Land transport(ADR/RID)	Not applicable
Inland waterway transport(ADN)	Not applicable
Sea transportation(IMDG)	Not applicable
Air transportationICAO-TI/IATA-DGR	Not applicable

Transport hazard class(es)

Land transport(ADR/RID)	Not applicable
Inland waterway transport(ADN)	Not applicable
Sea transportation(IMDG)	Not applicable
Air transportationICAO-TI/IATA-DGR	Not applicable

Packing group

Land transport(ADR/RID)	Not applicable
Inland waterway transport(ADN)	Not applicable
Sea transportation(IMDG)	Not applicable
Air transportationICAO-TI/IATA-DGR	Not applicable

Environmental hazards

Land transport(ADR/RID)	No data available
Inland waterway transport(ADN)	No data available
Sea transportation(IMDG)	No data available
Air transportationICAO-TI/IATA-DGR	No data available

Transport in bulk according to

MARPOL 73/78 and the IBC Code.

Marine pollutant :

Not applicable
Not applicable

SECTION 15: Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture****US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory :**

Not SNUR,ACTIVE;

National Toxicology Program (NTP) Report on Carcinogens-Substances listed :

Not available

Agents classified by International Agency for Research on Cancer(IARC) monographs :

CASNO:1333-86-4,Carbon black,2B ;

Occupational Safety and Health Act (OSHA) Standard related to carcinogens :

Not available

Proposition65 Safe Drinking Water and Toxic Enforcement Act of 1986 :

CASNO:1333-86-4,Carbon black (airborne, unbound particles of respirable size),cancer ;

CASNO:107-21-1,Ethylene glycol (ingested),developmental ;

Chemical Safety Assessment

No data available

SECTION 16: Other information**Date of preparation:**

2021/11/9

Version number:

XSDK01211109US-2

Data sources:

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.



SDS Documents from Sakura of America – Important information

The Hazard Communication Standard (HCS) requires importers to provide Safety Data Sheets (SDSs) (formerly known as Material Safety Data Sheets or MSDSs) to communicate the hazards of hazardous chemical products.

As of June 1, 2015, the HCS will require new SDSs to be in a uniform format, and include the section numbers, the headings, and associated information under the new headings.

SDSs that represent non-hazardous chemicals are not covered by the HCS. Paragraph 29 CFR 1910.1200(g)(8) of the standard requires that "the employer shall maintain in the workplace copies of the required SDSs for each hazardous chemical, and shall ensure that they are readily accessible during each work shift to employees when they are in their work area(s)." OSHA does not require nor encourage employers to maintain MSDSs for non-hazardous chemicals. Consequently, an employer is free to discard MSDSs for non-hazardous chemicals.

SDS are only required for materials that are hazardous. Often times, manufacturers are asked for MSDS's for products that do not meet this requirement - manufacturers are under no obligation to produce SDS's for non-hazardous materials. OSHA discourages the production of MSDS & SDS for non-hazardous materials.

An **"article"** means a manufactured item: (1) which is formed to a specific shape or design during manufacture (2) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (3) which does not release, or otherwise result in exposure to, a hazardous chemical under normal conditions of use. Any product which meets the definition of an "article," would be exempt from the requirements of the Standard.

The definition above has been amended to permit the release of "very small quantities, e.g., minute or trace amounts" of a hazardous chemical and still qualify as an article provided that a physical or health risk is not posed to the employees (59 F.R. 6146). In evaluating an article, one must consider the health risk which exposure to that article presents. (The term "risk" as opposed to "hazard" is used here, since the hazard is an inherent property of the chemical and exists no matter the quantity of exposure. To be exempted as an article, exposure must not pose a risk to employee health.)

Note that OSHA cannot make an across-the-board determination of a products' exclusion as an "article." The standard's definition by its very wording imposes the need to make case-by-case evaluations. Consequently, a blanket exemption for specific products cannot be given by OSHA.

The HCS **exempts** any consumer product or hazardous substance, as those terms are defined in the Consumer Product Safety Act (15 U.S.C. 2051 et seq.) and Federal Hazardous Substances Act (15 U.S.C. 1261 et seq.) respectively, where the employer can show that it is used in the workplace for the purpose intended by the chemical manufacturer or importer of the product, and the use results in a duration and frequency of exposure which is not greater than the range of exposures that could reasonably be experienced by consumers when used for the purpose intended.

According to the first OSHA interpretation listed below, "...clerical workers...**may not** be subject to the requirements of the HCS. Office workers who encounter hazardous chemicals only in isolated instances are not covered by the rule. **The Occupational Safety and Health Administration (OSHA) considers most office products (such as pens, pencils, adhesive tape) to be exempt** under the provisions of the rule, either as articles or as consumer products.

Page 2 of this memo lists the specific stock numbers which are covered under the attached SDS although not specifically noted on the SDS section 1.. Numbers listed on this 2nd page which are not noted on the SDS are due to packaging variations (i.e. blister cards, sets) but the individual contents of these packaging variations are within the SDS.

All products offered by Sakura of America are considered either a) articles b) office products and/or c) consumer products and are exempted from the requirements of the Standard(s) and do not require SDS (unless otherwise noted)

Nonetheless, some downstream clients may insist on an SDS even when one is not required. In such cases, OSHA has suggested providing a written statement such as "*This product is not considered to be or to contain hazardous chemicals based on evaluations made by our company under the OSHA Hazard Communication Standard, 29 CFR 1910.1200.*" This gives the requesting party something that they can put in their files and saves the manufacturer from needless work.

For more information refer to: <https://www.osha.gov/html/faq-hazcom.html>

Safety Data Sheet 2nd Page
Cover Letter Product Listing

[illegible]

SAFETY DATA SHEET

(Required under OSHA's Hazard Communication Standard 29 CFR 1910.1200)

(XSDK02)

Page 1 of 2

Section 1. Identification

Manufacturer's Name: Sakura Color Products Corporation	Telephone Number: +81 (0)6 - 6910 - 8824 (Japan)
Address: 1-6-20, Morinomiya Chuo, Chuo-ku, Osaka, 540-8508 Japan	FAX Number: +81 (0)6 - 6910 - 8834 (Japan)
Product Name: PIGMA MICRON 02 PEN 0.30MM : Black(XSDK02-49), Blue(XSDK02-36), Red(XSDK02-19), Green(XSDK02-29)	

Section 2. Hazard(S) identification

This product is approved by ACMI (The Art & Creative Material Institute, Inc.),
and carries the "AP" seal of non-toxic approval in USA.

This product is not considered hazardous in normal use as required under OSHA's
Hazardous Communication Standard 29 CFR 1910.1200.

Section 3. Composition / information on ingredients

Ethylene glycol (107-21-1), 2-Butoxyethanol (111-76-2), Carbon black(1333-86-4), Resin, Pigment, Additive

Section 4. First-Aid measures

- Inhalation : If he/she has subjective and objective symptoms, move him/her to a place fresh air,
and consult a doctor.
- Skin Contact : Wash with soap and water.
- Eye Contact : Wash the eyes immediately with large amounts of running water for over 15 minutes,
and see a doctor for medical advice.
- Ingestion : If the victim stops breathing, wipe away any remaining material in the mouth and
clear the airway and administer artificial respiration.

Section 5. Fire-fighting measures

- Suitable extinguishing media : In case of fire, use water spray, foam or dry chemical powder.
- For safety reasons unsuitable extinguishing media : None
- Protective equipment : No special measures required

Section 6. Accidental release measure

- Person-related safety precautions : No relevant information found.
- Measures for environmental protection : No relevant information found.
- Measures for cleaning/collecting : The ink is not spilled so that it soaked into the ink reservoir by normal handling.

Section 7. Handling and storage

- Handling : In the case of stuck to the skin, rinse with running water and soap.
- Storage : Avoid high temperature, fire, direct rays of the sun, and a powerful oxidizing agent.

Section 8. Exposure controls / personal protection

- General protective and hygienic measures : Unnecessary in normal use
- Breathing equipment : Unnecessary in normal use
- Protection of hands : Unnecessary in normal use
- Eye protection : Unnecessary in normal use
- Skin protection : Unnecessary in normal use

Section 9. Physical and chemical properties for Ink

- Boiling point / boiling range : about 100 °C
 - Flash point : No data
 - Melting point : No data
 - Solubility:
 - water solubility : Soluble (except pigments)
 - fat solubility (solvent – oil to be specified) : Insoluble
 - Relative density : $1 < \text{g/cm}^3$ (at 25°C)
-

Section 10. Stability and reactivity

- Conditions to avoided:
 - High temperature, Direct sunlight, Fire
 - Materials to avoided:
 - Strong acid and base
 - Hazardous decomposition products:
 - No dangerous decomposition products known
-

Section 11. Toxicological information

This product is approved by ACMI (The Art & Creative Material Institute, Inc.),
and carries the "AP" seal of non-toxic approval in USA.

Section 12. Ecological information

No relevant information found.

Section 13. Ecological information

Incinerate under safe conditions or dispose of in accordance with local regulations.

Section 14. Transport information

- DOT : Not applicable
 - IATA : Not applicable
 - IMO : Not applicable
-

Section 15. Regulatory information

TSCA : The product listed on Safety Data Sheet is not listed on Toxic Substances Control Act Inventory.
All ingredients used to manufacture this product are listed on TSCA Inventory.

Section 16. Other information, including date of preparation or last revision.

HMIS Code:

Health - 1 Flammability – 0 Reactivity - 0 Personal Protection - N.A.

Date of revision: December 6, 2017



SDS Documents from Sakura of America – Important information

The Hazard Communication Standard (HCS) requires importers to provide Safety Data Sheets (SDSs) (formerly known as Material Safety Data Sheets or MSDSs) to communicate the hazards of hazardous chemical products.

As of June 1, 2015, the HCS will require new SDSs to be in a uniform format, and include the section numbers, the headings, and associated information under the new headings.

SDSs that represent non-hazardous chemicals are not covered by the HCS. Paragraph 29 CFR 1910.1200(g)(8) of the standard requires that "the employer shall maintain in the workplace copies of the required SDSs for each hazardous chemical, and shall ensure that they are readily accessible during each work shift to employees when they are in their work area(s)." OSHA does not require nor encourage employers to maintain MSDSs for non-hazardous chemicals. Consequently, an employer is free to discard MSDSs for non-hazardous chemicals.

SDS are only required for materials that are hazardous. Often times, manufacturers are asked for MSDS's for products that do not meet this requirement - manufacturers are under no obligation to produce SDS's for non-hazardous materials. OSHA discourages the production of MSDS & SDS for non-hazardous materials.

An **"article"** means a manufactured item: (1) which is formed to a specific shape or design during manufacture (2) which has end use function(s) dependent in whole or in part upon its shape or design during end use; and (3) which does not release, or otherwise result in exposure to, a hazardous chemical under normal conditions of use. Any product which meets the definition of an "article," would be exempt from the requirements of the Standard.

The definition above has been amended to permit the release of "very small quantities, e.g., minute or trace amounts" of a hazardous chemical and still qualify as an article provided that a physical or health risk is not posed to the employees (59 F.R. 6146). In evaluating an article, one must consider the health risk which exposure to that article presents. (The term "risk" as opposed to "hazard" is used here, since the hazard is an inherent property of the chemical and exists no matter the quantity of exposure. To be exempted as an article, exposure must not pose a risk to employee health.)

Note that OSHA cannot make an across-the-board determination of a products' exclusion as an "article." The standard's definition by its very wording imposes the need to make case-by-case evaluations. Consequently, a blanket exemption for specific products cannot be given by OSHA.

The HCS **exempts** any consumer product or hazardous substance, as those terms are defined in the Consumer Product Safety Act (15 U.S.C. 2051 et seq.) and Federal Hazardous Substances Act (15 U.S.C. 1261 et seq.) respectively, where the employer can show that it is used in the workplace for the purpose intended by the chemical manufacturer or importer of the product, and the use results in a duration and frequency of exposure which is not greater than the range of exposures that could reasonably be experienced by consumers when used for the purpose intended.

According to the first OSHA interpretation listed below, "...clerical workers...**may not** be subject to the requirements of the HCS. Office workers who encounter hazardous chemicals only in isolated instances are not covered by the rule. **The Occupational Safety and Health Administration (OSHA) considers most office products (such as pens, pencils, adhesive tape) to be exempt** under the provisions of the rule, either as articles or as consumer products.

Page 2 of this memo lists the specific stock numbers which are covered under the attached SDS although not specifically noted on the SDS section 1.. Numbers listed on this 2nd page which are not noted on the SDS are due to packaging variations (i.e. blister cards, sets) but the individual contents of these packaging variations are within the SDS.

All products offered by Sakura of America are considered either a) articles b) office products and/or c) consumer products and are exempted from the requirements of the Standard(s) and do not require SDS (unless otherwise noted)

Nonetheless, some downstream clients may insist on an SDS even when one is not required. In such cases, OSHA has suggested providing a written statement such as "*This product is not considered to be or to contain hazardous chemicals based on evaluations made by our company under the OSHA Hazard Communication Standard, 29 CFR 1910.1200.*" This gives the requesting party something that they can put in their files and saves the manufacturer from needless work.

For more information refer to: <https://www.osha.gov/html/faq-hazcom.html>

Safety Data Sheet 2nd Page
Cover Letter Product Listing

[illegible]

SAFETY DATA SHEET

(Required under OSHA's Hazard Communication Standard 29 CFR 1910.1200)

(XSDK03)

Page 1 of 2

Section 1. Identification

Manufacturer's Name:

Sakura Color Products Corporation

Telephone Number:

+81 (0)6 - 6910 - 8824 (Japan)

Address:

1-6-20, Morinomiya Chuo, Chuo-ku, Osaka, 540-8508 Japan

FAX Number:

+81 (0)6 - 6910 - 8834 (Japan)

Product Name:

PIGMA MICRON 03 PEN 0.35MM : Black(XSDK03-49), Blue(XSDK03-36), Red(XSDK03-19), Green(XSDK03-29)
Sepia(XSDK03-117)

Section 2. Hazard(S) identification

This product is approved by ACMI (The Art & Creative Material Institute, Inc.),
and carries the "AP" seal of non-toxic approval in USA.

This product is not considered hazardous in normal use as required under OSHA's
Hazardous Communication Standard 29 CFR 1910.1200.

Section 3. Composition / information on ingredients

Ethylene glycol (107-21-1), 2-Butoxyethanol (111-76-2), Carbon black(1333-86-4), Resin, Pigment, Additive

Section 4. First-Aid measures

- Inhalation : If he/she has subjective and objective symptoms, move him/her to a place fresh air,
and consult a doctor.
- Skin Contact : Wash with soap and water.
- Eye Contact : Wash the eyes immediately with large amounts of running water for over 15 minutes,
and see a doctor for medical advice.
- Ingestion : If the victim stops breathing, wipe away any remaining material in the mouth and
clear the airway and administer artificial respiration.

Section 5. Fire-fighting measures

- Suitable extinguishing media : In case of fire, use water spray, foam or dry chemical powder.
- For safety reasons unsuitable extinguishing media : None
- Protective equipment : No special measures required

Section 6. Accidental release measure

- Person-related safety precautions : No relevant information found.
- Measures for environmental protection : No relevant information found.
- Measures for cleaning/collecting : The ink is not spilled so that it soaked into the ink reservoir by normal handling.

Section 7. Handling and storage

- Handling : In the case of stuck to the skin, rinse with running water and soap.
- Storage : Avoid high temperature, fire, direct rays of the sun, and a powerful oxidizing agent.

Section 8. Exposure controls / personal protection

- General protective and hygienic measures : Unnecessary in normal use
- Breathing equipment : Unnecessary in normal use
- Protection of hands : Unnecessary in normal use
- Eye protection : Unnecessary in normal use
- Skin protection : Unnecessary in normal use

Section 9. Physical and chemical properties for Ink

- Boiling point / boiling range : about 100 °C
- Flash point : No data
- Melting point : No data
- Solubility:
 - water solubility : Soluble (except pigments)
 - fat solubility (solvent – oil to be specified) : Insoluble
- Relative density : $1 < \text{g/cm}^3$ (at 25°C)

Section 10. Stability and reactivity

- Conditions to avoided:
 - High temperature, Direct sunlight, Fire
- Materials to avoided:
 - Strong acid and base
- Hazardous decomposition products:
 - No dangerous decomposition products known

Section 11. Toxicological information

This product is approved by ACMI (The Art & Creative Material Institute, Inc.),
and carries the "AP" seal of non-toxic approval in USA.

Section 12. Ecological information

No relevant information found.

Section 13. Ecological information

Incinerate under safe conditions or dispose of in accordance with local regulations.

Section 14. Transport information

- DOT : Not applicable
- IATA : Not applicable
- IMO : Not applicable

Section 15. Regulatory information

TSCA : The product listed on Safety Data Sheet is not listed on Toxic Substances Control Act Inventory.
All ingredients used to manufacture this product are listed on TSCA Inventory.

Section 16. Other information, including date of preparation or last revision.

HMIS Code:

Health - 1 Flammability – 0 Reactivity - 0 Personal Protection - N.A.
Date of revision: December 6, 2017

Safety Data Sheet

Issue date: 2017/12/6

Revision date: 2021/11/9

Version: 2

SECTION 1: Identification of the substance/mixture and of the company/undertaking**Product Identifier**

Substance or Mixture name : PIGMA MICRON 05 PEN 0.45MM
Item code: XSDK05-49, XSDK05-36, XSDK05-19, XSDK05-29, XSDK05-12
XSDK05-24, XSDK05-05, XSDK05-03, XSDK05-21, XSDK05-117
XSDK05-138, XSDK05-22, XSDK05-230, XSDK05-243, XSDK05-32
XSDK05-42, XSDK05-44
EC No. :
REACH No. :
CAS No. :

Relevant identified uses of the substance or mixture and uses advised against

Sector of uses [SU] : Consumer uses: Private households (= general public = consumers)
Use of the substance/mixture : Ink and toners
Uses advised against : see section 16 for a general overview

Details of the Supplier of the Safety Data Sheet

Supplier : Sakura Color Products Corp. Quality Management Department
Address : 7-18-47, Kano, Higashi-osaka, Osaka, Japan
P.O.Box : 578-0901
Telephone : +81-(0)72-873-1295
Telefax : +81-(0)72-873-5505
E-Mail :

Emergency telephone number

Emergency telephone number : +81-(0)72-873-1295
Remark : Only available during office hours.

SECTION 2: Hazards identification**Classification of the substance or mixture:**

This product is approved by ACMI (The Art & Creative Material Institute, Inc.), and carries the "AP" seal of non-toxic approval in USA.

This product is not considered hazardous in normal use as required under OSHA's Hazardous Communication Standard 29 CFR 1910.1200.

SECTION 3: Composition / information on ingredients

: Mixtures

Substance	% (weight)	CAS No.	Trade Secret
Ethane-1,2-diol, vapour	7.2-17	107-21-1	
2-Butoxyethanol	0-1.0	111-76-2	
Carbon black	0-9.0	1333-86-4	
Water, Pigment, Resin, Additive			v

SECTION 4: First aid measures**Description of first aid measures****General information :**

Seek medical advice immediately.

Following inhalation:

In case of inhalation of decomposition products, affected person should be moved into fresh air and kept still.

Following skin contact

Wash immediately with : Water and soap

In the case of contact with hot melt, treat skin with :

No data available

Do not wash with : No data available

After eye contact:

In case of eye irritation consult an ophthalmologist. Rinse immediately carefully and thoroughly with eye-bath or water.

After ingestion :

Rinse mouth thoroughly with water.

If swallowed immediately drink :

No data available

Self-protection of the first aider :

No data available

Most important symptoms and effects, both acute and delayed**Symptoms**

The following symptoms may occur :

No data available

Effects :

No data available

Indication of any immediate medical attention and special treatment needed**Notes for the doctor :**

No data available

Special treatment :

No data available

SECTION 5: Firefighting measures**Extinguishing media**

Suitable extinguishing media :

Water ABC-powder Carbon dioxide (CO2) Dry sand Water spray

Unsuitable extinguishing media:

Not applicable

Special hazards arising from the substance or mixture

Hazardous combustion products :

No data available

Advice for firefighters

Special protective equipment for firefighters:

No data available

Additional information:

The product itself does not burn.

SECTION 6: Accidental release measures**Personal precautions,protective equipment and emergency procedures****Personal precautions :**

No data available

Protective equipment :

No data available

Emergency procedures :

Provide adequate ventilation.

Enviromental precautions :

Do not allow to enter into surface water or drains.

Methods and materials for containment and cleaning up**For containment**

Suitable material for taking up:

No data available

For cleaning up

Suitable material for diluting or neutralising :

No data available

Reference to other sections :

Disposal: see section 13

SECTION 7: Handling and storage**Precautions for safe handling****Protective measure****Advice on safe handling**

Avoid : Not applicable
 Handle under (gas) : Not applicable
 Handle under (liquid): Not applicable
 Remark: No data available

Measures to prevent fire

Keep wet with : Not applicable
 Do not mix with : No data available
 Keep away from : No data available
 Remark: No data available

Measures to prevent aerosol and dust generation

During filling, metering and sampling should be used if possible:
 Not applicable
 Use the following local exhaust ventilation type :
 Not applicable

Environmental precaution :

Not applicable

Special requirements or handling rules :

Not applicable

Advice on general occupational hygiene :

Not applicable

Conditions for safe storage, including any incompatibilities**Packaging materials**

Suitable container/equipment material: No data available

Unsuitable container/equipment material: Not applicable

Hints on joint storage

Storage class : no classification

Materials to avoid : Not applicable

Further information on storage conditions : No data available

SECTION 8: Exposure controls/personal protection**Control parameters****Occupational exposure limit values**

Ingredient	CAS NO.	Country	TWA		STEL		Ceiling	
			ppm	mg/m3	ppm	mg/m3	ppm	mg/m3
Ethane-1,2-diol, vapour	107-21-1	US	25		50			
2-Butoxyethanol	111-76-2	US	5	24				
Carbon black	1333-86-4	US		0.1				

Biological limit values

Ingredient	CAS NO.	EC No	Country	Unit	Limit value	Parameter
2-Butoxyethanol	111-76-2	203-905-0	US	mg/g creatinine	200	Butoxyacetic acid (BAA)

Exposure controls**Appropriate engineering controls**

Initial Remarks : See section 7. No additional measures necessary.

Substance/mixture related measures to prevent exposure during identified users :
 No data available

Technical measures to prevent exposure :
 No data available

Personal protection equipment**Eye/face protection**

Suitable eye protection : No data available

Remark: No data available

Skin protection

Hand protection

Suitable gloves type : No data available

Suitable material : No data available

Required properties : No data available

Remark: No data available

Body protection

Suitable protective clothing : No data available

Required properties : No data available

Recommended material : No data available

Respiratory protection

Respiratory protection necessary at :

No data available

According to experience this refers to the following tasks :

No data available

Suitable respiratory protection apparatus :

No data available

Remarks :

No data available

Environmental exposure controls**Technical measures to prevent exposure**

Use the following filter types for cleaning waste gases :

No data available

Use the following recovery and/or abatement technique for cleaning waste gases :

No data available

Use the following chemical treatment methods for waste water :

No data available

SECTION 9: Physical and chemical properties

Physical state	liquid
Color	black/ blue/ red/ green/ brown/ purple/ orange/ yellow/ rose sepia/ royal blue/ burgundy/ hunter green/ blue black fresh green/ light cool gray/ cool gray
Odour	odourless
pH	No data available
Melting point/freezing point	No data available
Initial boiling point and boiling range	about 100°C
Flash point	No data available
Evaporation rate	No data available
Flammability	No data available
Upper/lower flammability or explosive limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Density	No data available
Solubility(ies)	Soluble
Partition coefficient: n-octanol/water	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidising properties	No data available

SECTION 10: Stability and reactivity

Reactivity : No data available

Chemical stability : The product is chemically stable under recommended conditions of storage, use and temperature.

Possibility of hazardous reactions**In case of melting :**

No data available

In case of vaporization :

No data available

In case of freezing :

No data available

Condition to avoid**In dry state :**

No data available

In an isolated state :

No data available

In fine dispersion/spraying/misting :

No data available

In case of warming :

No data available

In case of light influence :

No data available

In case of impact or pressure influence :

No data available

In case of air intake :

No data available

In case of exceeding the storage time :

No data available

In case of exceeding the storage temperature :

No data available

Incompatible materials**Materials to avoid**

No data available

Hazardous decomposition products:

No data available

Additional information

No data available

SECTION 11: Toxicological information

This product is approved by ACMI (The Art & Creative Material Institute, Inc.), and carries the "AP" seal of non-toxic approval in USA.

SECTION 12: Ecological information**Hazardous to the aquatic environment-Acute hazard:**

No data available

Hazardous to the aquatic environment-Chronic hazard:

No data available

Hazardous to the ozone layer :

No data available

Additional ecotoxicological information:

No data available

SECTION 13: Disposal considerations**Waste treatment methods****Product/packaging disposal**

Properties of waste which render it hazardous :

No data available

Waste treatment option :

Appropriate disposal/Product

Dispose of waste according to applicable legislation.

Appropriate disposal/Package

No data available

Remarks :

Consult the appropriate local waste disposal expert about waste disposal.

SECTION 14: Transport information**UN number**

Land transport(ADR/RID)	Not applicable
Inland waterway transport(ADN)	Not applicable
Sea transportation(IMDG)	Not applicable
Air transportationICAO-TI/IATA-DGR	Not applicable

UN proper shipping name

Land transport(ADR/RID)	Not applicable
Inland waterway transport(ADN)	Not applicable
Sea transportation(IMDG)	Not applicable
Air transportationICAO-TI/IATA-DGR	Not applicable

Transport hazard class(es)

Land transport(ADR/RID)	Not applicable
Inland waterway transport(ADN)	Not applicable
Sea transportation(IMDG)	Not applicable
Air transportationICAO-TI/IATA-DGR	Not applicable

Packing group

Land transport(ADR/RID)	Not applicable
Inland waterway transport(ADN)	Not applicable
Sea transportation(IMDG)	Not applicable
Air transportationICAO-TI/IATA-DGR	Not applicable

Environmental hazards

Land transport(ADR/RID)	No data available
Inland waterway transport(ADN)	No data available
Sea transportation(IMDG)	No data available
Air transportationICAO-TI/IATA-DGR	No data available

Transport in bulk according to

MARPOL 73/78 and the IBC Code.

Marine pollutant :

Not applicable
Not applicable

SECTION 15: Regulatory information**Safety, health and environmental regulations/legislation specific for the substance or mixture****US Toxic Substances Control Act (TSCA) - Chemical Substance Inventory :**

Not SNUR,ACTIVE;

National Toxicology Program (NTP) Report on Carcinogens-Substances listed :

Not available

Agents classified by International Agency for Research on Cancer(IARC) monographs :

CASNO:1333-86-4,Carbon black,2B ;

Occupational Safety and Health Act (OSHA) Standard related to carcinogens :

Not available

Proposition 65 Safe Drinking Water and Toxic Enforcement Act of 1986 :

CASNO:1333-86-4,Carbon black (airborne, unbound particles of respirable size),cancer ;

CASNO:107-21-1,Ethylene glycol (ingested),developmental ;

Chemical Safety Assessment

No data available

SECTION 16: Other information**Date of preparation:**

2021/11/9

Version number:

XSDK05211109US-2

Data sources:

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.



SDS Documents from Sakura of America – Important information

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Note that OSHA cannot make an across-the-board determination of a products' exclusion as an "article." The standard's definition by its very wording imposes the need to make case-by-case evaluations. Consequently, a blanket exemption for specific products cannot be given by OSHA.

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According to the first OSHA interpretation listed below, "...clerical workers...**may not** be subject to the requirements of the HCS. Office workers who encounter hazardous chemicals only in isolated instances are not covered by the rule. **The Occupational Safety and Health Administration (OSHA) considers most office products (such as pens, pencils, adhesive tape) to be exempt** under the provisions of the rule, either as articles or as consumer products.

Page 2 of this memo lists the specific stock numbers which are covered under the attached SDS although not specifically noted on the SDS section 1.. Numbers listed on this 2nd page which are not noted on the SDS are due to packaging variations (i.e. blister cards, sets) but the individual contents of these packaging variations are within the SDS.

All products offered by Sakura of America are considered either a) articles b) office products and/or c) consumer products and are exempted from the requirements of the Standard(s) and do not require SDS (unless otherwise noted)

Nonetheless, some downstream clients may insist on an SDS even when one is not required. In such cases, OSHA has suggested providing a written statement such as *"This product is not considered to be or to contain hazardous chemicals based on evaluations made by our company under the OSHA Hazard Communication Standard, 29 CFR 1910.1200."* This gives the requesting party something that they can put in their files and saves the manufacturer from needless work.

For more information refer to: <https://www.osha.gov/html/faq-hazcom.html>

Safety Data Sheet 2nd Page
Cover Letter Product Listing

[illegible]

SAFETY DATA SHEET

(Required under OSHA's Hazard Communication Standard 29 CFR 1910.1200)

(XSDK08)

Page 1 of 2

Section 1. Identification

Manufacturer's Name:

Sakura Color Products Corporation

Telephone Number:

+81 (0)6 - 6910 - 8824 (Japan)

Address:

1-6-20, Morinomiya Chuo, Chuo-ku, Osaka, 540-8508 Japan

FAX Number:

+81 (0)6 - 6910 - 8834 (Japan)

Product Name:

PIGMA MICRON 08 PEN 0.50MM: Black(XSDK08-49), Blue(XSDK08-36), Red(XSDK08-19), Green(XSDK08-29)

Section 2. Hazard(S) identification

This product is approved by ACMI (The Art & Creative Material Institute, Inc.),
and carries the "AP" seal of non-toxic approval in USA.

This product is not considered hazardous in normal use as required under OSHA's
Hazardous Communication Standard 29 CFR 1910.1200.

Section 3. Composition / information on ingredients

Ethylene glycol (107-21-1), 2-Butoxyethanol (111-76-2), Carbon black(1333-86-4), Resin, Pigment, Additive

Section 4. First-Aid measures

- Inhalation : If he/she has subjective and objective symptoms, move him/her to a place fresh air,
and consult a doctor.
- Skin Contact : Wash with soap and water.
- Eye Contact : Wash the eyes immediately with large amounts of running water for over 15 minutes,
and see a doctor for medical advice.
- Ingestion : If the victim stops breathing, wipe away any remaining material in the mouth and
clear the airway and administer artificial respiration.

Section 5. Fire-fighting measures

- Suitable extinguishing media : In case of fire, use water spray, foam or dry chemical powder.
- For safety reasons unsuitable extinguishing media : None
- Protective equipment : No special measures required

Section 6. Accidental release measure

- Person-related safety precautions : No relevant information found.
- Measures for environmental protection : No relevant information found.
- Measures for cleaning/collecting : The ink is not spilled so that it soaked into the ink reservoir by normal handling.

Section 7. Handling and storage

- Handling : In the case of stuck to the skin, rinse with running water and soap.
- Storage : Avoid high temperature, fire, direct rays of the sun, and a powerful oxidizing agent.

Section 8. Exposure controls / personal protection

- General protective and hygienic measures : Unnecessary in normal use
- Breathing equipment : Unnecessary in normal use
- Protection of hands : Unnecessary in normal use
- Eye protection : Unnecessary in normal use
- Skin protection : Unnecessary in normal use

Section 9. Physical and chemical properties for Ink

- Boiling point / boiling range : about 100 °C
- Flash point : No data
- Melting point : No data
- Solubility:
 - water solubility : Soluble (except pigments)
 - fat solubility (solvent – oil to be specified) : Insoluble
- Relative density : $1 < \text{g/cm}^3$ (at 25°C)

Section 10. Stability and reactivity

- Conditions to avoided:
 - High temperature, Direct sunlight, Fire
- Materials to avoided:
 - Strong acid and base
- Hazardous decomposition products:
 - No dangerous decomposition products known

Section 11. Toxicological information

This product is approved by ACMI (The Art & Creative Material Institute, Inc.),
and carries the "AP" seal of non-toxic approval in USA.

Section 12. Ecological information

No relevant information found.

Section 13. Ecological information

Incinerate under safe conditions or dispose of in accordance with local regulations.

Section 14. Transport information

- DOT : Not applicable
- IATA : Not applicable
- IMO : Not applicable

Section 15. Regulatory information

TSCA : The product listed on Safety Data Sheet is not listed on Toxic Substances Control Act Inventory.
All ingredients used to manufacture this product are listed on TSCA Inventory.

Section 16. Other information, including date of preparation or last revision.

HMIS Code:

Health - 1 Flammability – 0 Reactivity - 0 Personal Protection - N.A.
Date of revision: December 6, 2017