

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

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

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.

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

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:

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.

Safety Data Sheet

Issue date: 2020/11/30
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 10
Item code : XSDK10-49, XSDK10-42, XSDK10-44
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	
Carbon black	0.1-9.0	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.

Environmental 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			
Carbon black	1333-86-4	US		0.1				

Biological limit values

Ingredient	CAS NO.	EC No	Country	Unit	Limit value	Parameter
No data available						

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/ 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 :	Not applicable
Marine pollutant :	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:

XSDK10211109US-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.