



Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

HONGSAM™ SUBLIMATION INK DARK BLACK

Revision date: 01/03/2012

Supplier HONGSAM DIGITAL SCIENCE & TECHNOLOGY CO., LTD
No. Yulan Western Street, High Technology Industrial Zone,
Zhengzhou, China

For emergency information contact: +86 371 60301018

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	EC No.	CAS No.	Content	Classification
Water	231-791-2	7732-18-5	40-80%	
Glycerin	200-289-5	56-81-5	5-30%	Xi, R36/38,
Ethylene Glycol	203-473-3	107-21-1	5-30%	Xn, R22
Acrylate			0-10%	Xi, R36/38, R43
Disperse Dyes			2-50%	

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance

Form Liquid
Color Dark Black
Odor Slight fragrant

Hazard Summary **CAUTION!**
INHALATION OF VAPOR OR MIST CAN CAUSE
HEADACHE, NAUSEA AND IRRITATION OF THE NOSE,
THROAT AND LUNGS.
MAY CAUSE EYE/SKIN IRRITATION

Potential Health Effects

Primary Routes of Entry: Inhalation
Eye contact
Skin contact

Eyes: Direct contact with material can cause the following:
Slight irritation

Skin: Prolonged or repeated skin contact can cause the following:
Slight irritation

Inhalation: Inhalation of vapor or mist can cause the following:
Irritation of nose, throat and lungs
Headache
Nausea

Chronic exposure: Prolonged or repeated overexposure can cause the following:
Lung irritation

Ingestion: Mistaken ingestion can cause the following:
Upset of stomach
Nausea
Diarrhea

4. FIRST AID MEASURES

Inhalation: Move to fresh air

Skin contact: Wash with water and soap as a precaution. If skin irritation persists, call a physician.

Eye contact: Rinse with plenty of water. Consult a physician if necessary. Never give anything by mouth to an unconscious person.

Ingestion: Seek medical advice and attention if stomach continues to be upset.

5. FIRE-FIGHTING MEASURES

Flammability: Will not burn.

Extinguishing Media: Dry chemical, carbon dioxide, water

Fire Fighting: No special fire fighting procedures are required other than breathing apparatus. No special explosion hazards are known.

6. ACCIDENTAL RELEASE MEASURES

If a spill occurs, use sponges to wipe-up ink, then rinse area with damp cloth. Place waste in closed container for disposal.

Use proper ventilation.

Do not dispose of waste to the sewer.

No eye or skin protection required during clean-up.

Wash hands with soap and water.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing.

Wash hands thoroughly after handling.

Storage Temperature: Standard room temperature. (5°C to 25°C)

Storage Precautions: Keep out of the reach of children and do not drink ink.

Keep container closed.

Keep away from extreme heat and cold.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: N.A.

Personal Protective Equipment: Avoid unnecessary skin contact

Wear gloves and sleeves.

Wash hands thoroughly after handling.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid

Color: Dark Black

Odor: Slight fragrant

PH: 9.39

Boiling Point: 105°C (H₂O=100°C)

Melting Point: N.A.

Viscosity: 6.9 cp

Specific gravity: 1.04 (H₂O=1)

Surface tensility: 30.7 mN/m

Conductibility: 131 us/cm

Volatility: 75-85%

10.STABILITY AND RBACTIVITY

Chemical Stability: Stable under normal temperature and pressure

Conditions to Avoid: Sunshine and heating

Conditions to Substance: Strong acid, strong alkali and strong oxidizer.

11.TOXICOLOGICAL INFORMATION

Acute Health Hazards: Overexposure of eye surface to ink may be mildly irritating.

Overexposure of skin to ink contact may cause irritation and in some people swelling and redness
Intentional inhalation overexposure to ink vapors may result in respiratory tract irritation

Intentional or accidental oral ingestion may cause an upset stomach

Chronic Health Hazards: No available data

Carcinogenicity: No available data

12.ECOLOGICAL INFORMATION

There is no data available for this product.

13.DISPOSAL CONSIDERATIONS

Treat or dispose of waste in accordance with federal, state, and local requirements.

14. TRANSPORT INFORMATION

DOT

Not regulated for transport

IMO/IMDG

Not regulated (Not dangerous for transport)

Transportation classification may vary by container volume and may be influenced by regional or country variations in regulations.

15. REGULATORY INFORMATION

Risk Phrases:

R22 Harmful if swallowed
R36/38 Irritating to eyes and skin.

Safety Phrases:

S2 Keep out of the reach of children
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37 Wear suitable gloves.
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

NAPA-HMIS

Health effect	1
Flammability	0
Chemical reaction	0
Personal Protective Equipment	B

Notice: 0 safe 1 slight 2 middle 3 serious

A. Blinkers B. Blinkers, gloves and gauze mask)

16. OTHER INFORMATION

This MSDS contains health, safety, and environmental information. The information contained herein is believed to be accurate at the time of preparation, but should only be used as a guide. Since the condition of handling and use are beyond our control, we assume no liability for loss or injury resulting from the use of this product or the information herein. Safe use of this product is the responsibility of the user. It is subject to revision from time to time.



Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

HONGSAM™ SUBLIMATION INK YELLOW

Revision date: 01/03/2012

Supplier HONGSAM DIGITAL SCIENCE & TECHNOLOGY CO., LTD
No.10 Yulan Western Street, High Technology Industrial Zone,
Zhengzhou, China

For emergency information contact: +86 371 60301018

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	EC No.	CAS No.	Content	Classification
Water	231-791-2	7732-18-5	40-80%	
Glycerin	200-289-5	56-81-5	5-30%	Xi, R36/38,
Ethylene Glycol	203-473-3	107-21-1	5-30%	Xn, R22
Acrylate			0-10%	Xi,R36/38,R43
Disperse Dyes			2-50%	

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance

Form Liquid
Color Yellow
Odor Slight fragrant

Hazard Summary

CAUTION!

INHALATION OF VAPOR OR MIST CAN CAUSE HEADACHE, NAUSEA AND IRRITATION OF THE NOSE, THROAT AND LUNGS.

MAY CAUSE EYE/SKIN IRRITATION

Potential Health Effects

Primary Routes of Entry: Inhalation
Eye contact
Skin contact

Eyes: Direct contact with material can cause the following:
Slight irritation

Skin: Prolonged or repeated skin contact can cause the following:
Slight irritation

Inhalation: Inhalation of vapor or mist can cause the following:
Irritation of nose, throat and lungs
Headache
Nausea

Chronic exposure: Prolonged or repeated overexposure can cause the following:
Lung irritation

Ingestion: Mistaken ingestion can cause the following:
Upset of stomach
Nausea
Diarrhea

4.FIRST AID MEASURES

Inhalation: Move to fresh air

Skin contact: Wash with water and soap as a precaution. If skin irritation persists, call a physician.

Eye contact: Rinse with plenty of water. Consult a physician if necessary.
Never give anything by mouth to an unconscious person.

Ingestion: Seek medical advice and attention if stomach continues to be upset.

5.FIRE-FIGHTING MEASURES

Flammability: Will not burn.

Extinguishing Media: Dry chemical, carbon dioxide, water

Fire Fighting: No special fire fighting procedures are required other than breathing apparatus. No special explosion hazards are known.

6.ACCIDENTAL RELEASE MEASURES

If a spill occurs, use sponges to wipe-up ink, then rinse area with damp cloth. Place waste in closed container for disposal.

Use proper ventilation.

Do not dispose of waste to the sewer.

No eye or skin protection required during clean-up.

Wash hands with soap and water.

7.HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing.

Wash hands thoroughly after handling.

Storage Temperature: Standard room temperature. (5°C to 25°C)

Storage Precautions: Keep out of the reach of children and do not drink ink.

Keep container closed.

Keep away from extreme heat and cold.

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: N.A.

Personal Protective Equipment: Avoid unnecessary skin contact

Wear gloves and sleeves.

Wash hands thoroughly after handling.

9.PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid

Color: Yellow

Odor: Slight fragrant

PH: 10.05

Boiling Point: 105°C (H₂O=100°C)

Melting Point: N.A.

Viscosity: 3.9 cp

Specific gravity: 1.03 (H₂O=1)

Surface tensility: 30.1 mN/m

Conductibility: 130 us/cm

Volatility: 75-85%

10.STABILITY AND RBACTIVITY

Chemical Stability: Stable under normal temperature and pressure

Conditions to Avoid: Sunshine and heating

Conditions to Substance: Strong acid, strong alkali and strong oxidizer.

11.TOXICOLOGICAL INFORMATION

Acute Health Hazards: Overexposure of eye surface to ink may be mildly irritating.

Overexposure of skin to ink contact may cause irritation and in some people swelling and redness
Intentional inhalation overexposure to ink vapors may result in respiratory tract irritation

Intentional or accidental oral ingestion may cause an upset stomach

Chronic Health Hazards: No available data

Carcinogenicity: No available data

12.ECOLOGICAL INFORMATION

There is no data available for this product.

13.DISPOSAL CONSIDERATIONS

Treat or dispose of waste in accordance with federal, state, and local requirements.

14. TRANSPORT INFORMATION

DOT

Not regulated for transport

IMO/IMDG

Not regulated (Not dangerous for transport)

Transportation classification may vary by container volume and may be influenced by regional or country variations in regulations.

15. REGULATORY INFORMATION

Risk Phrases:

R22 Harmful if swallowed
R36/38 Irritating to eyes and skin.

Safety Phrases:

S2 Keep out of the reach of children
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37 Wear suitable gloves.
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

NAPA-HMIS

Health effect	1
Flammability	0
Chemical reaction	0
Personal Protective Equipment	B

Notice: 0 safe 1 slight 2 middle 3 serious

A. Blinkers B. Blinkers, gloves and gauze mask)

16. OTHER INFORMATION

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Material Safety Data Sheet

1. PRODUCT AND COMPANY IDENTIFICATION

HONGSAM™ SUBLIMATION INK MAGENTA

Revision date: 01/03/2012

Supplier HONGSAM DIGITAL SCIENCE & TECHNOLOGY CO., LTD
No.10 Yulan Western Street, High Technology Industrial Zone,
Zhengzhou, China

For emergency information contact: +86 371 60301018

2. COMPOSITION / INFORMATION ON INGREDIENTS

Component	EC No.	CAS No.	Content	Classification
Water	231-791-2	7732-18-5	40-80%	
Glycerin	200-289-5	56-81-5	5-30%	Xi, R36/38,
Ethylene Glycol	203-473-3	107-21-1	5-30%	Xn, R22
Acrylate			0-10%	Xi,R36/38,R43
Disperse Dyes			2-50%	

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance

Form Liquid
Color Magenta
Odor Slight fragrant

Hazard Summary

CAUTION!

INHALATION OF VAPOR OR MIST CAN CAUSE HEADACHE, NAUSEA AND IRRITATION OF THE NOSE, THROAT AND LUNGS.
MAY CAUSE EYE/SKIN IRRITATION

Potential Health Effects

Primary Routes of Entry: Inhalation
Eye contact
Skin contact

Eyes: Direct contact with material can cause the following:
Slight irritation

Skin: Prolonged or repeated skin contact can cause the following:
Slight irritation

Inhalation: Inhalation of vapor or mist can cause the following:
Irritation of nose, throat and lungs
Headache
Nausea

Chronic exposure: Prolonged or repeated overexposure can cause the following:
Lung irritation

Ingestion: Mistaken ingestion can cause the following:
Upset of stomach
Nausea
Diarrhea

4.FIRST AID MEASURES

Inhalation: Move to fresh air

Skin contact: Wash with water and soap as a precaution. If skin irritation persists, call a physician.

Eye contact: Rinse with plenty of water. Consult a physician if necessary.
Never give anything by mouth to an unconscious person.

Ingestion: Seek medical advice and attention if stomach continues to be upset.

5.FIRE-FIGHTING MEASURES

Flammability: Will not burn.

Extinguishing Media: Dry chemical, carbon dioxide, water

Fire Fighting: No special fire fighting procedures are required other than breathing apparatus. No special explosion hazards are known.

6.ACCIDENTAL RELEASE MEASURES

If a spill occurs, use sponges to wipe-up ink, then rinse area with damp cloth. Place waste in closed container for disposal.

Use proper ventilation.

Do not dispose of waste to the sewer.

No eye or skin protection required during clean-up.

Wash hands with soap and water.

7.HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing.

Wash hands thoroughly after handling.

Storage Temperature: Standard room temperature. (5°C to 25°C)

Storage Precautions: Keep out of the reach of children and do not drink ink.

Keep container closed.

Keep away from extreme heat and cold.

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: N.A.

Personal Protective Equipment: Avoid unnecessary skin contact

Wear gloves and sleeves.

Wash hands thoroughly after handling.

9.PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid

Color: Magenta

Odor: Slight fragrant

PH: 9.36

Boiling Point: 105°C (H2O=100°C)

Melting Point: N.A.

Viscosity: 6.3 cp

Specific gravity: 1.02 (H2O=1)

Surface tensility: 31.1 mN/m

Conductibility: 113 us/cm

Volatility: 75-85%

10.STABILITY AND RBACTIVITY

Chemical Stability: Stable under normal temperature and pressure

Conditions to Avoid: Sunshine and heating

Conditions to Substance: Strong acid, strong alkali and strong oxidizer.

11.TOXICOLOGICAL INFORMATION

Acute Health Hazards: Overexposure of eye surface to ink may be mildly irritating.

Overexposure of skin to ink contact may cause irritation and in some people swelling and redness
Intentional inhalation overexposure to ink vapors may result in respiratory tract irritation

Intentional or accidental oral ingestion may cause an upset stomach

Chronic Health Hazards: No available data

Carcinogenicity: No available data

12.ECOLOGICAL INFORMATION

There is no data available for this product.

13.DISPOSAL CONSIDERATIONS

Treat or dispose of waste in accordance with federal, state, and local requirements.

14. TRANSPORT INFORMATION

DOT

Not regulated for transport

IMO/IMDG

Not regulated (Not dangerous for transport)

Transportation classification may vary by container volume and may be influenced by regional or country variations in regulations.

15. REGULATORY INFORMATION

Risk Phrases:

R22 Harmful if swallowed
R36/38 Irritating to eyes and skin.

Safety Phrases:

S2 Keep out of the reach of children
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37 Wear suitable gloves.
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

NAPA-HMIS

Health effect	1
Flammability	0
Chemical reaction	0
Personal Protective Equipment	B

Notice: 0 safe 1 slight 2 middle 3 serious

A. Blinkers B. Blinkers, gloves and gauze mask)

16. OTHER INFORMATION

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Material Safety Data Sheet

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HONGSAM™ SUBLIMATION INK CYAN

Revision date: 01/03/2012

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No.10 Yulan Western Street, High Technology Industrial Zone,
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Component	EC No.	CAS No.	Content	Classification
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Glycerin	200-289-5	56-81-5	5-30%	Xi, R36/38,
Ethylene Glycol	203-473-3	107-21-1	5-30%	Xn, R22
Acrylate			0-10%	Xi, R36/38, R43
Disperse Dyes			2-50%	

3. HAZARDS IDENTIFICATION

Emergency Overview

Appearance

Form Liquid
Color Cyan
Odor Slight fragrant

Hazard Summary

CAUTION!

INHALATION OF VAPOR OR MIST CAN CAUSE HEADACHE, NAUSEA AND IRRITATION OF THE NOSE, THROAT AND LUNGS.
MAY CAUSE EYE/SKIN IRRITATION

Potential Health Effects

Primary Routes of Entry: Inhalation
Eye contact
Skin contact

Eyes: Direct contact with material can cause the following:
Slight irritation

Skin: Prolonged or repeated skin contact can cause the following:
Slight irritation

Inhalation: Inhalation of vapor or mist can cause the following:
Irritation of nose, throat and lungs
Headache
Nausea

Chronic exposure: Prolonged or repeated overexposure can cause the following:
Lung irritation

Ingestion: Mistaken ingestion can cause the following:
Upset of stomach
Nausea
Diarrhea

4.FIRST AID MEASURES

Inhalation: Move to fresh air

Skin contact: Wash with water and soap as a precaution. If skin irritation persists, call a physician.

Eye contact: Rinse with plenty of water. Consult a physician if necessary.
Never give anything by mouth to an unconscious person.

Ingestion: Seek medical advice and attention if stomach continues to be upset.

5.FIRE-FIGHTING MEASURES

Flammability: Will not burn.

Extinguishing Media: Dry chemical, carbon dioxide, water

Fire Fighting: No special fire fighting procedures are required other than breathing apparatus. No special explosion hazards are known.

6.ACCIDENTAL RELEASE MEASURES

If a spill occurs, use sponges to wipe-up ink, then rinse area with damp cloth. Place waste in closed container for disposal.

Use proper ventilation.

Do not dispose of waste to the sewer.

No eye or skin protection required during clean-up.

Wash hands with soap and water.

7.HANDLING AND STORAGE

Handling: Avoid contact with eyes, skin and clothing.

Wash hands thoroughly after handling.

Storage Temperature: Standard room temperature. (5°C to 25°C)

Storage Precautions: Keep out of the reach of children and do not drink ink.

Keep container closed.

Keep away from extreme heat and cold.

8.EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: N.A.

Personal Protective Equipment: Avoid unnecessary skin contact

Wear gloves and sleeves.

Wash hands thoroughly after handling.

9.PHYSICAL AND CHEMICAL PROPERTIES

Physical State: liquid

Color: Cyan

Odor: Mild

PH: 9.66

Boiling Point: 105°C (H₂O=100°C)

Melting Point: N.A.

Viscosity: 6.0 cp

Specific gravity: 1.03 (H₂O=1)

Surface tensility: 30.3 mN/m

Conductibility: 133 us/cm

Volatility: 75-85%

10.STABILITY AND RBACTIVITY

Chemical Stability: Stable under normal temperature and pressure

Conditions to Avoid: Sunshine and heating

Conditions to Substance: Strong acid, strong alkali and strong oxidizer.

11.TOXICOLOGICAL INFORMATION

Acute Health Hazards: Overexposure of eye surface to ink may be mildly irritating.

Overexposure of skin to ink contact may cause irritation and in some people swelling and redness
Intentional inhalation overexposure to ink vapors may result in respiratory tract irritation

Intentional or accidental oral ingestion may cause an upset stomach

Chronic Health Hazards: No available data

Carcinogenicity: No available data

12.ECOLOGICAL INFORMATION

There is no data available for this product.

13.DISPOSAL CONSIDERATIONS

Treat or dispose of waste in accordance with federal, state, and local requirements.

14. TRANSPORT INFORMATION

DOT

Not regulated for transport

IMO/IMDG

Not regulated (Not dangerous for transport)

Transportation classification may vary by container volume and may be influenced by regional or country variations in regulations.

15. REGULATORY INFORMATION

Risk Phrases:

R22 Harmful if swallowed
R36/38 Irritating to eyes and skin.

Safety Phrases:

S2 Keep out of the reach of children
S24/25 Avoid contact with skin and eyes.
S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S37 Wear suitable gloves.
S61 Avoid release to the environment. Refer to special instructions/safety data sheets.

NAPA-HMIS

Health effect	1
Flammability	0
Chemical reaction	0
Personal Protective Equipment	B

Notice: 0 safe 1 slight 2 middle 3 serious

A. Blinkers B. Blinkers, gloves and gauze mask)

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