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For transportation emergencies only call: 800-289-9800
For health emergencies call the Poison Control Center: 1-800-222-1222

Safety Data Sheet

(In according with European Commission Directives 67/548/EEC, 1999/45/EC, Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 453/2010)

1. Identification of the Substance/Preparation/Company

Product details**Trade name:** Washable Ink / blackish green**Substance/Mixture:** Mixture/preparation**Form:** Fluid**Relevant identified uses advised against****Identified uses:** Laboratory chemicals, Manufacture of the substance/mixture**Product type:** _**Manufacturer /Supplier:**

Shanghai University Nano-Science & Technology Institute Special Ink R&D Department

No.149 Yanchang Road.Shanghai,China

Phone: 86-21-56331532**Fax:** 86-21-56331117**Web:** www.inksh.com**Further information obtainable from:**

Technical service , Howard Young

Tel: 86-021-56331532**Mobile :** 86-13761677741**Information in case of emergency:****Tel:** 86-13761677741

2. Hazards identification

Classification of the mixture:**Classification:** The mixture is not classified according European Regulation CLP N° 1272/2008 /EC with its adaptation.**Label elements:****No marking according Regulation CLP N°1272/2008/EC.****Others Hazard:****There is not having other hazard classification information about the mixture for present knowledge.**

3. Composition /information on ingredients**Chemical characterization**

Mixture of the following substances: containing non-hazardous substances and coloring pigments.

Description: The following material classification according to 1999/45/EC and CLP N°1272/2008/EC

Components:				
CAS	Chemical Name	1999/45/EC	CLP	Conc
3844-45-9	ACID BLUE 9	Not classified	Not classified	0.4%
1934-21-0	ACID YELLOW 23	Not classified	Not classified	1.0%
3520-42-1	ACID RED 18	Not classified	Not classified	0.4%
56-81-5	GLYCEROL	Not classified	Not classified	12%
7732-18-5	WATER	Not classified	Not classified	86.2%

Additional information: For the wording of the listed risk phrases refer to section 16.

4. First –aid measures

Inhalation: Move the affected person away from the contaminated area and into the fresh air

Skin contact: Immediately wash and rinse with plenty of water

Eye contact: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 min. minimum) Always refer to an eye specialist, even if there are no mediate symptoms.

Ingestion: Never attempt to induce vomiting . Call a doctor immediately

5. Fire –fighting measures

Suitable extinguishing media: Carbon dioxide (CO2). Foam. Powders

Not suitable extinguishing media: None to our knowledge. If there is a fire close by using suitable extinguishing agents

Specific hazards: During combustion: Toxic vapors may be released if product is heated to dryness.

Specific fire fighting methods: Do not attempt to fight the fire without suitable protective equipment may intervene

Protection of fire-fighters: Self-contained breathing apparatus Complete protective clothing

6. Accidental release measure

Personal precautions: Avoid contact with skin and eyes .Do not breathe vapour; Do not smoking..

Environmental precautions: Do not discharge into drains and rivers

Methods for cleaning up:

Neutralization: Absorb spillage with: inert absorbent material earth or sand

Cleaning/decontamination: Wash non-recoverable remainder with large amounts of water

Disposal: Dispose of contaminated materials in accordance with current regulations

7. Handling and storage**HANDLING**

Technical measures: Vapour extraction at source . Material and equipment suitable for use with Strongly colored water based liquids.

Precautions: Avoid any direct contact with the product . Work in a well-ventilated area .Smoking is forbidden .Avoid the build-up of electrostatic charge

STORAGE

Technical measures: The floor of the depot must be impermeable, noncombustible and designed to form a basin, in order that stored liquids should not, under any circumstances, be released outside

Storage conditions:

Recommended: Store: in a cool, well-ventilated area, the container tightly closed away from any source of ignition

Incompatible materials: Strong oxidizing agents

Packaging materials:

Not suitable: Can cause some metals to rust

8. Exposure controls / personal protection

Engineering measures: Ensure good ventilation of the work station .Extraction to remove vapours at their source

Occupational exposure limits:

France: Ethylene Glycol

Personal protective equipment:

Respiratory protection: In the event of insufficient ventilation:;Suitable breathing apparatus

Hand protection: Impermeable protective gloves

Eye protection: Safety spectacles

Skin and body protection: Suitable clothing

Collective emergency equipment: Eye fountain .Safety shower

Hygiene measures: Do not drink, eat or smoke in the workplace

9. Physical and chemical properties**General Information**

Form : Fluid
 Colour :blackish green
 Odour : watery slightly

Ignition temperature : 287 °C

Self-igniting : Not determined

Danger of explosion : product does not present an explosion hazard

PH: 7.0-8.3

Vapour density (air=1): greater than 1

Solubility

in water : Miscible (in all proportions)
 in organic solvents: Miscible (in all proportions) with: glycerol

10. Stability and reactivity

Stability: Stable at ambient temperature and under normal conditions of use

Hazardous reactions:

Conditions to avoid: May ignite on heating to dryness when all water is evaporated

Materials to avoid: Strong oxidizing agents

Hazardous decomposition

products: On combustion or on thermal decomposition

(pyrolysis) releases: Carbon oxides (CO, CO2)

11. Toxicological information

Acute toxicity: Vapours may cause drowsiness and dizziness

Acute symptoms : On ingestion: Nausea., Vomiting., Central Nervous, System depressant ,

On inhalation: Dizziness, Headaches

Local effects : At high concentrations, the vapours can be irritating to the eyes, nose and throat .Repeated or prolonged contact may cause slight ,irritation to the skin,

Eye contact: May cause severe ocular lesions

Further information: Above information is for the ink. The ink will be contained in the fibrous reservoir of a small capacity marker containing 3 grams or less which will limit considerably the exposure possibilities for the user.

12. Ecological information

ECOTOXICITY: Effects on the aquatic environment: Ethylene Glycol
May cause adverse effects to the aquatic environment.

13. Disposal considerations**WASTE FROM PRODUCT:**

Destruction/Disposal: Dispose of in accordance with relevant local regulations

CONTAMINATED PACKAGING:

Destruction/disposal: Destroy at an authorized site

**NOTE : The user's attention is drawn to the possible existence of specific European, national or
Local regulations regarding disposal**

14. Transport information

International regulations: Not regulated

15. Regulatory information

**The product is no classified in accordance with European Regulation on hazardous substance: Directive
67/548/CE 30^{ème} adaptation and on hazardous preparations: Directive 2006/8/CE**

National prescriptions:

France: Maladies professionnelles (tableaux (x) n° 84) concern

**NOTE : The regulatory information given above only indicate the principal regulations specifically applicable
to the product described in the MSDS**

16. Other information

**This information is based on our present knowledge. However, this shall not constitute a guarantee for any
specific product features and shall not establish a legally valid contractual relationship.**

**This safety data sheet was prepared in accordance with Regulation (EC) 1272/2008 (Regulation on
classification, labeling and packaging of substances and mixtures, amending and repealing Directives
67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006).**

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Safety Data Sheet

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1. Identification of the Substance/Preparation/Company

Product details

Trade name: **Washable Ink / Dark Blue**

Substance/Mixture: **Mixture/preparation**

Form: **Fluid**

Relevant identified uses advised against

Identified uses: Laboratory chemicals, Manufacture of the substance/mixture

Product type: _

Manufacturer /Supplier:

Shanghai University Nano-Science & Technology Institute Special Ink R&D Department

No.149 Yanchang Road,Shanghai,China

Phone: 86-21-56331532

Fax: 86-21-56331117

Web: www.inksh.com

Further information obtainable from:

Technical service , Howard Young

Tel: 86-021-56331532

Mobile : 86-13761677741

Information in case of emergency:

Tel: 86-13761677741

2. Hazards identification

Classification of the mixture:

Classification: The mixture is not classified according European Regulation CLP N° 1272/2008 /EC with its adaptation.

Label elements:

No marking according Regulation CLP N°1272/2008/EC.

Others Hazard:

There is not having other hazard classification information about the mixture for present knowledge.

3. Composition/information on ingredients**Chemical characterization**

Mixture of the following substances: containing non-hazardous substances and coloring pigments.

Description: The following material classification according to 1999/45/EC and CLP N°1272/2008/EC

Components:				
CAS	Chemical Name	1999/45/EC	CLP	Cone
3844-45-9	ACID BLUE 9	Not classified	Not classified	1.2%
3520-42-1	ACID ROSE RED B	Not classified	Not classified	1%
56-81-5	GLYCEROL	Not classified	Not classified	12%
7732-18-5	WATER	Not classified	Not classified	85.8%

Additional information: For the wording of the listed risk phrases refer to section 16.

4. First-aid measures

Inhalation: Move the affected person away from the contaminated area and into the fresh air

Skin contact: Immediately wash and rinse with plenty of water

Eye contact: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 min. minimum) Always refer to an eye specialist, even if there are no mediate symptoms.

Ingestion: Never attempt to induce vomiting . Call a doctor immediately

5. Fire-fighting measures

Suitable extinguishing media: Carbon dioxide (CO2). Foam. Powders

Not suitable extinguishing media: None to our knowledge. If there is a fire close by using suitable extinguishing agents

Specific hazards: During combustion: Toxic vapors may be released if product is heated to dryness.

Specific fire fighting methods: Do not attempt to fight the fire without suitable protective equipment may intervene

Protection of fire-fighters: Self-contained breathing apparatus Complete protective clothing

6. Accidental release measure

Personal precautions: Avoid contact with skin and eyes .Do not breathe vapour; Do not smoking..

Environmental precautions: Do not discharge into drains and rivers

Methods for cleaning up:

Neutralization: Absorb spillage with: inert absorbent material earth or sand

Cleaning/decontamination: Wash non-recoverable remainder with large amounts of water

Disposal: Dispose of contaminated materials in accordance with current regulations

7. Handling and storage**HANDLING**

Technical measures: Vapour extraction at source . Material and equipment suitable for use with Strongly colored water based liquids.

Precautions: Avoid any direct contact with the product . Work in a well-ventilated area .Smoking is forbidden .Avoid the build-up of electrostatic charge

STORAGE

Technical measures: The floor of the depot must be impermeable, noncombustible and designed to form a basin, in order that stored liquids should not, under any circumstances, be released outside

Storage conditions:

Recommended: Store: in a cool, well-ventilated area, the container tightly closed away from any source of ignition

Incompatible materials: Strong oxidizing agents

Packaging materials:

Not suitable: Can cause some metals to rust

8. Exposure controls / personal protection

Engineering measures: Ensure good ventilation of the work station .Extraction to remove vapours at their source

Occupational exposure limits:

France: Ethylene Glycol

Personal protective equipment:

Respiratory protection: In the event of insufficient ventilation:;Suitable breathing apparatus

Hand protection: Impermeable protective gloves

Eye protection: Safety spectacles

Skin and body protection: Suitable clothing

Collective emergency equipment: Eye fountain .Safety shower

Hygiene measures: Do not drink, eat or smoke in the workplace

9. Physical and chemical properties**General Information**

Form : Fluid
 Colour :dark blue
 Odour : watery slightly

Ignition temperature : 287 °C

Self-igniting : Not determined

Danger of explosion : product does not present an explosion hazard

PH: 7.0-8.3

Vapour density (air=1): greater than 1

Solubility

in water : Miscible (in all proportions)
 in organic solvents: Miscible (in all proportions) with: glycerol

10. Stability and reactivity

Stability: Stable at ambient temperature and under normal conditions of use

Hazardous reactions:

Conditions to avoid: May ignite on heating to dryness when all water is evaporated

Materials to avoid: Strong oxidizing agents

Hazardous decomposition

products: On combustion or on thermal decomposition

(pyrolysis) releases: Carbon oxides (CO, CO₂)

11. Toxicological information

Acute toxicity: Vapours may cause drowsiness and dizziness

Acute symptoms : On ingestion: Nausea., Vomiting., Central Nervous, System depressant ,

On inhalation: Dizziness, Headaches

Local effects : At high concentrations, the vapours can be irritating to the eyes, nose and throat .Repeated or prolonged contact may cause slight ,irritation to the skin,

Eye contact: May cause severe ocular lesions

Further information: Above information is for the ink. The ink will be contained in the fibrous reservoir of a small capacity marker containing 3 grams or less which will limit considerably the exposure possibilities for the user.

12. Ecological information

ECOTOXICITY: Effects on the aquatic environment: Ethylene Glycol
May cause adverse effects to the aquatic environment.

13. Disposal considerations**WASTE FROM PRODUCT:**

Destruction/Disposal: Dispose of in accordance with relevant local regulations

CONTAMINATED PACKAGING:

Destruction/disposal: Destroy at an authorized site

NOTE : The user's attention is drawn to the possible existence of specific European, national or
Local regulations regarding disposal

14. Transport information

International regulations: Not regulated

15. Regulatory information

The product is no classified in accordance with European Regulation on hazardous substance: Directive 67/548/CE 30^{ème} adaptation and on hazardous preparations: Directive 2006/8/CE

National prescriptions:

France: Maladies professionnelles (tableaux (x) n° 84) concern

NOTE : The regulatory information given above only indicate the principal regulations specifically applicable to the product described in the MSDS

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This safety data sheet was prepared in accordance with Regulation (EC) 1272/2008 (Regulation on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006).

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1. Identification of the Substance/Preparation/Company**Product details****Trade name:** Washable Ink / **Fluorescent Orange****Substance/Mixture:** Mixture/preparation**Form:** Fluid**Relevant identified uses advised against**

Identified uses: Laboratory chemicals, Manufacture of the substance/mixture

Product type: _

Manufacturer /Supplier:

Shanghai University Nano-Science & Technology Institute Special Ink R&D Department

No. 149 Yanchang Road, Shanghai, China

Phone: 86-21-56331532

Fax: 86-21-56331117

Web: www.inksh.com**Further information obtainable from:**

Technical service , Howard Young

Tel: 86-021-56331532

Mobile : 86-13761677741

Information in case of emergency:

Tel: 86-13761677741

2. Hazards identification**Classification of the mixture:**

Classification: The mixture is not classified according European Regulation CLP N° 1272/2008 /EC with its adaptation.

Label elements:

No marking according Regulation CLP N° 1272/2008/EC.

Others Hazard:

There is not having other hazard classification information about the mixture for present knowledge.

3. Composition /information on ingredients**Chemical characterization**

Mixture of the following substances: containing non-hazardous substances and coloring pigments.

Description: The following material classification according to 1999/45/EC and CLP N°1272/2008/EC

Components:				
CAS	Chemical Name	1999/45/EC	CLP	Conc
1934-21-0	ACID YELLOW 23	Not classified	Not classified	1%
2611-82-7	ACID RED 18	Not classified	Not classified	0.4%
56-81-5	GLYCEROL	Not classified	Not classified	12%
7732-18-5	WATER	Not classified	Not classified	86.6%

Additional information: For the wording of the listed risk phrases refer to section 16.

4. First –aid measures

Inhalation: Move the affected person away from the contaminated area and into the fresh air

Skin contact: Immediately wash and rinse with plenty of water

Eye contact: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 min. minimum) Always refer to an eye specialist, even if there are no mediate symptoms.

Ingestion: Never attempt to induce vomiting . Call a doctor immediately

5. Fire –fighting measures

Suitable extinguishing media: Carbon dioxide (CO2). Foam. Powders

Not suitable extinguishing media: None to our knowledge. If there is a fire close by using suitable extinguishing agents

Specific hazards: During combustion: Toxic vapors may be released if product is heated to dryness.

Specific fire fighting methods: Do not attempt to fight the fire without suitable protective equipment may intervene

Protection of fire-fighters: Self-contained breathing apparatus Complete protective clothing

6. Accidental release measure

Personal precautions: Avoid contact with skin and eyes .Do not breathe vapour; Do not smoking..

Environmental precautions: Do not discharge into drains and rivers

Methods for cleaning up:

Neutralization: Absorb spillage with: inert absorbent material earth or sand

Cleaning/decontamination: Wash non-recoverable remainder with large amounts of water

Disposal: Dispose of contaminated materials in accordance with current regulations

7. Handling and storage**HANDLING**

Technical measures: Vapour extraction at source . Material and equipment suitable for use with
Strongly colored water based liquids.

Precautions: Avoid any direct contact with the product . Work in a well-ventilated area .Smoking is
forbidden .Avoid the build-up of electrostatic charge

STORAGE

Technical measures: The floor of the depot must be impermeable, noncombustible and designed to form a basin,
in order that stored liquids should not, under any circumstances, be released outside

Storage conditions:

Recommended: Store: in a cool, well-ventilated area, the container tightly closed away from any source of
ignition

Incompatible materials: Strong oxidizing agents

Packaging materials:

Not suitable: Can cause some metals to rust

8. Exposure controls / personal protection

Engineering measures: Ensure good ventilation of the work station .Extraction to remove vapours at their
source

Occupational exposure limits:

France: Ethylene Glycol

Personal protective equipment:

Respiratory protection: In the event of insufficient ventilation; ,Suitable breathing apparatus

Hand protection: Impermeable protective gloves

Eye protection: Safety spectacles

Skin and body protection: Suitable clothing

Collective emergency equipment: Eye fountain .Safety shower

Hygiene measures: Do not drink, eat or smoke in the workplace

9. Physical and chemical properties**General Information**

Form : Fluid
 Colour : fluorescent orange
 Odour : watery slightly

Ignition temperature : 287 °C

Self-igniting : Not determined

Danger of explosion : product does not present an explosion hazard

PH: 7.0-8.3

Vapour density (air=1): greater than 1

Solubility

in water : Miscible (in all proportions)
 in organic solvents: Miscible (in all proportions) with: glycerol

10. Stability and reactivity

Stability: Stable at ambient temperature and under normal conditions of use

Hazardous reactions:

Conditions to avoid: May ignite on heating to dryness when all water is evaporated

Materials to avoid: Strong oxidizing agents

Hazardous decomposition

products: On combustion or on thermal decomposition

(pyrolysis) releases: Carbon oxides (CO, CO₂)

11. Toxicological information

Acute toxicity: Vapours may cause drowsiness and dizziness

Acute symptoms : On ingestion: Nausea., Vomiting., Central Nervous, System depressant ,

On inhalation: Dizziness, Headaches

Local effects : At high concentrations, the vapours can be irritating to the eyes, nose and throat .Repeated or prolonged contact may cause slight irritation to the skin,

Eye contact: May cause severe ocular lesions

Further information: Above information is for the ink. The ink will be contained in the fibrous reservoir of a small capacity marker containing 3 grams or less which will limit considerably the exposure possibilities for the user.

12. Ecological information

ECOTOXICITY: Effects on the aquatic environment: Ethylene Glycol
May cause adverse effects to the aquatic environment.

13. Disposal considerations**WASTE FROM PRODUCT:**

Destruction/Disposal: Dispose of in accordance with relevant local regulations

CONTAMINATED PACKAGING:

Destruction/disposal: Destroy at an authorized site

NOTE : The user's attention is drawn to the possible existence of specific European, national or
Local regulations regarding disposal

14. Transport information

International regulations: Not regulated

15. Regulatory information

The product is no classified in accordance with European Regulation on hazardous substance: Directive 67/548/CE 30ème adaptation and on hazardous preparations: Directive 2006/8/CE

National prescriptions:

France: Maladies professionnelles (tableaux (x) n° 84) concern

NOTE : The regulatory information given above only indicate the principal regulations specifically applicable to the product described in the MSDS

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This safety data sheet was prepared in accordance with Regulation (EC) 1272/2008 (Regulation on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006).

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1. Identification of the Substance/Preparation/Company

Product details

Trade name: Washable Ink / blackish green

Substance/Mixture: Mixture/preparation

Form: Fluid

Relevant identified uses advised against

Identified uses: Laboratory chemicals, Manufacture of the substance/mixture

Product type: _

Manufacturer /Supplier:

Shanghai University Nano-Science & Technology Institute Special Ink R&D Department

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Further information obtainable from:

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Tel: 86-021-56331532

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Information in case of emergency:

Tel: 86-13761677741

2. Hazards identification

Classification of the mixture:

Classification: The mixture is not classified according European Regulation CLP N° 1272/2008 /EC with its adaptation.

Label elements:

No marking according Regulation CLP N°1272/2008/EC.

Others Hazard:

There is not having other hazard classification information about the mixture for present knowledge.

3. Composition /information on ingredients**Chemical characterization**

Mixture of the following substances: containing non-hazardous substances and coloring pigments.

Description: The following material classification according to 1999/45/EC and CLP N°1272/2008/EC

Components:				
CAS	Chemical Name	1999/45/EC	CLP	Conc
3844-45-9	ACID BLUE 9	Not classified	Not classified	0.4%
1934-21-0	ACID YELLOW 23	Not classified	Not classified	1.0%
3520-42-1	ACID RED 18	Not classified	Not classified	0.4%
56-81-5	GLYCEROL	Not classified	Not classified	12%
7732-18-5	WATER	Not classified	Not classified	86.2%

Additional information: For the wording of the listed risk phrases refer to section 16.

4. First –aid measures

Inhalation: Move the affected person away from the contaminated area and into the fresh air

Skin contact: Immediately wash and rinse with plenty of water

Eye contact: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 min. minimum) Always refer to an eye specialist, even if there are no mediate symptoms.

Ingestion: Never attempt to induce vomiting . Call a doctor immediately

5. Fire –fighting measures

Suitable extinguishing media: Carbon dioxide (CO2). Foam. Powders

Not suitable extinguishing media: None to our knowledge. If there is a fire close by using suitable extinguishing agents

Specific hazards: During combustion: Toxic vapors may be released if product is heated to dryness.

Specific fire fighting methods: Do not attempt to fight the fire without suitable protective equipment may intervene

Protection of fire-fighters: Self-contained breathing apparatus Complete protective clothing

6. Accidental release measure

Personal precautions: Avoid contact with skin and eyes .Do not breathe vapour; Do not smoking..

Environmental precautions: Do not discharge into drains and rivers

Methods for cleaning up:

Neutralization: Absorb spillage with: inert absorbent material earth or sand

Cleaning/decontamination: Wash non-recoverable remainder with large amounts of water

Disposal: Dispose of contaminated materials in accordance with current regulations

7. Handling and storage**HANDLING**

Technical measures: Vapour extraction at source . Material and equipment suitable for use with
Strongly colored water based liquids.

Precautions: Avoid any direct contact with the product . Work in a well-ventilated area .Smoking is
forbidden .Avoid the build-up of electrostatic charge

STORAGE

Technical measures: The floor of the depot must be impermeable, noncombustible and designed to form a basin,
in order that stored liquids should not, under any circumstances, be released outside

Storage conditions:

Recommended: Store: in a cool, well-ventilated area, the container tightly closed away from any source of
ignition

Incompatible materials: Strong oxidizing agents

Packaging materials:

Not suitable: Can cause some metals to rust

8. Exposure controls / personal protection

Engineering measures: Ensure good ventilation of the work station .Extraction to remove vapours at their
source

Occupational exposure limits:

France: Ethylene Glycol

Personal protective equipment:

Respiratory protection: In the event of insufficient ventilation:;Suitable breathing apparatus

Hand protection: Impermeable protective gloves

Eye protection: Safety spectacles

Skin and body protection: Suitable clothing

Collective emergency equipment: Eye fountain .Safety shower

Hygiene measures: Do not drink, eat or smoke in the workplace

9. Physical and chemical properties

General Information
Form : Fluid
Colour :blackish green
Odour : watery slightly
Ignition temperature : 287 °C
Self-igniting : Not determined
Danger of explosion : product does not present an explosion hazard
PH: 7.0-8.3
Vapour density (air=1): greater than 1
Solubility
in water : Miscible (in all proportions)
in organic solvents: Miscible (in all proportions) with: glycerol

10. Stability and reactivity

Stability: Stable at ambient temperature and under normal conditions of use

Hazardous reactions:

Conditions to avoid: May ignite on heating to dryness when all water is evaporated

Materials to avoid: Strong oxidizing agents

Hazardous decomposition

products: On combustion or on thermal decomposition

(pyrolysis) releases: Carbon oxides (CO, CO₂)

11. Toxicological information

Acute toxicity: Vapours may cause drowsiness and dizziness

Acute symptoms : On ingestion: Nausea., Vomiting., Central Nervous, System depressant ,

On inhalation: Dizziness, Headaches

Local effects : At high concentrations, the vapours can be irritating to the eyes, nose and throat .Repeated or prolonged contact may cause slight irritation to the skin,

Eye contact: May cause severe ocular lesions

Further information: Above information is for the ink. The ink will be contained in the fibrous reservoir of a small capacity marker containing 3 grams or less which will limit considerably the exposure possibilities for the user.

12. Ecological information

ECOTOXICITY: Effects on the aquatic environment: Ethylene Glycol
May cause adverse effects to the aquatic environment.

13. Disposal considerations**WASTE FROM PRODUCT:**

Destruction/Disposal: Dispose of in accordance with relevant local regulations

CONTAMINATED PACKAGING:

Destruction/disposal: Destroy at an authorized site

**NOTE : The user's attention is drawn to the possible existence of specific European, national or
Local regulations regarding disposal**

14. Transport information

International regulations: Not regulated

15. Regulatory information

The product is no classified in accordance with European Regulation on hazardous substance: Directive 67/548/CE 30^{ème} adaptation and on hazardous preparations: Directive 2006/8/CE

National prescriptions:

France: Maladies professionnelles (tableaux (x) n° 84) concern

NOTE : The regulatory information given above only indicate the principal regulations specifically applicable to the product described in the MSDS

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This safety data sheet was prepared in accordance with Regulation (EC) 1272/2008 (Regulation on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006).

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Safety Data Sheet

(In according with European Commission Directives 67/548/EEC, 1999/45/EC, Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 453/2010)

1. Identification of the Substance/Preparation/Company

Product details

Trade name: **Washable Ink / Fluorescent Yellow**

Substance/Mixture: Mixture/preparation

Form: Fluid

Relevant identified uses advised against

Identified uses: Laboratory chemicals, Manufacture of the substance/mixture

Product type: _

Manufacturer /Supplier:

Shanghai University Nano-Science & Technology Institute Special Ink R&D Department

No.149 Yanchang Road, Shanghai, China

Phone: 86-21-56331532

Fax: 86-21-56331117

Web: www.inksh.com

Further information obtainable from:

Technical service , Howard Young

Tel: 86-021-56331532

Mobile : 86-13761677741

Information in case of emergency:

Tel: 86-13761677741

2. Hazards identification

Classification of the mixture:

Classification: The mixture is not classified according European Regulation CLP N° 1272/2008 /EC with its adaptation.

Label elements:

No marking according Regulation CLP N°1272/2008/EC.

Others Hazard:

There is not having other hazard classification information about the mixture for present knowledge.

3. Composition /information on ingredients**Chemical characterization**

Mixture of the following substances: containing non-hazardous substances and coloring pigments.

Description: The following material classification according to 1999/45/EC and CLP N°1272/2008/EC

Components:				
CAS	Chemical Name	1999/45/EC	CLP	Conc
6358-69-6	SOLVENT GREEN 7	Not classified	Not classified	1.6%
56-81-5	GLYCEROL	Not classified	Not classified	12%
7732-18-5	WATER	Not classified	Not classified	86.4%

Additional information: For the wording of the listed risk phrases refer to section 16.

4. First –aid measures

Inhalation: Move the affected person away from the contaminated area and into the fresh air

Skin contact: Immediately wash and rinse with plenty of water

Eye contact: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 min. minimum) Always refer to an eye specialist, even if there are no mediate symptoms.

Ingestion: Never attempt to induce vomiting . Call a doctor immediately

5. Fire –fighting measures

Suitable extinguishing media: Carbon dioxide (CO2). Foam. Powders

Not suitable extinguishing media: None to our knowledge. If there is a fire close by using suitable extinguishing agents

Specific hazards: During combustion: Toxic vapors may be released if product is heated to dryness.

Specific fire fighting methods: Do not attempt to fight the fire without suitable protective equipment may intervene

Protection of fire-fighters: Self-contained breathing apparatus Complete protective clothing

6. Accidental release measure

Personal precautions: Avoid contact with skin and eyes .Do not breathe vapour; Do not smoking..

Environmental precautions: Do not discharge into drains and rivers

Methods for cleaning up:

Neutralization: Absorb spillage with: inert absorbent material earth or sand

Cleaning/decontamination: Wash non-recoverable remainder with large amounts of water

Disposal: Dispose of contaminated materials in accordance with current regulations

7. Handling and storage**HANDLING**

Technical measures: Vapour extraction at source . Material and equipment suitable for use with
Strongly colored water based liquids.

Precautions: Avoid any direct contact with the product . Work in a well-ventilated area .Smoking is
forbidden .Avoid the build-up of electrostatic charge

STORAGE

Technical measures: The floor of the depot must be impermeable, noncombustible and designed to form a basin,
in order that stored liquids should not, under any circumstances, be released outside

Storage conditions:

Recommended: Store: in a cool, well-ventilated area, the container tightly closed away from any source of
ignition

Incompatible materials: Strong oxidizing agents

Packaging materials:

Not suitable: Can cause some metals to rust

8. Exposure controls / personal protection

Engineering measures: Ensure good ventilation of the work station .Extraction to remove vapours at their
source

Occupational exposure limits:

France: Ethylene Glycol

Personal protective equipment:

Respiratory protection: In the event of insufficient ventilation:;Suitable breathing apparatus

Hand protection: Impermeable protective gloves

Eye protection: Safety spectacles

Skin and body protection: Suitable clothing

Collective emergency equipment: Eye fountain .Safety shower

Hygiene measures: Do not drink, eat or smoke in the workplace

9. Physical and chemical properties**General Information**

Form : Fluid
 Colour :fluorescent yellow
 Odour : watery slightly

Ignition temperature : 287 °C

Self-igniting : Not determined

Danger of explosion : product does not present an explosion hazard

PH: 7.0-8.3

Vapour density (air=1): greater than 1

Solubility

in water : Miscible (in all proportions)
 in organic solvents: Miscible (in all proportions) with: glycerol

10. Stability and reactivity

Stability: Stable at ambient temperature and under normal conditions of use

Hazardous reactions:

Conditions to avoid: May ignite on heating to dryness when all water is evaporated

Materials to avoid: Strong oxidizing agents

Hazardous decomposition

products: On combustion or on thermal decomposition

(pyrolysis) releases: Carbon oxides (CO, CO₂)

11. Toxicological information

Acute toxicity: Vapours may cause drowsiness and dizziness

Acute symptoms : On ingestion: Nausea., Vomiting., Central Nervous, System depressant ,

On inhalation: Dizziness, Headaches

Local effects : At high concentrations, the vapours can be irritating to the eyes, nose and throat .Repeated or prolonged contact may cause slight irritation to the skin,

Eye contact: May cause severe ocular lesions

Further information: Above information is for the ink. The ink will be contained in the fibrous reservoir of a small capacity marker containing 3 grams or less which will limit considerably the exposure possibilities for the user.

12. Ecological information

ECOTOXICITY: Effects on the aquatic environment: Ethylene Glycol
May cause adverse effects to the aquatic environment.

13. Disposal considerations**WASTE FROM PRODUCT:**

Destruction/Disposal: Dispose of in accordance with relevant local regulations

CONTAMINATED PACKAGING:

Destruction/disposal: Destroy at an authorized site

NOTE : The user's attention is drawn to the possible existence of specific European, national or
Local regulations regarding disposal

14. Transport information

International regulations: Not regulated

15. Regulatory information

The product is no classified in accordance with European Regulation on hazardous substance: Directive 67/548/CE 30^{ème} adaptation and on hazardous preparations: Directive 2006/8/CE

National prescriptions:

France: Maladies professionnelles (tableaux (x) n° 84) concern

NOTE : The regulatory information given above only indicate the principal regulations specifically applicable to the product described in the MSDS

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This safety data sheet was prepared in accordance with Regulation (EC) 1272/2008 (Regulation on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006).

Art Supply Enterprises dba Macpherson's
1375 Ocean Avenue
Emeryville, CA 94608-1128
Phone: 800-289-9800
Fax: 800-283-8329
Email: asetesting@macphersonart.com
For transportation emergencies only call: 800-289-9800
For health emergencies call the Poison Control Center: 1-800-222-1222

Safety Data Sheet

(In according with European Commission Directives 67/548/EEC, 1999/45/EC, Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 453/2010)

1. Identification of the Substance/Preparation/Company

Product details

Trade name: Washable Ink / brown

Substance/Mixture: Mixture/preparation

Form: Fluid

Relevant identified uses advised against

Identified uses: Laboratory chemicals, Manufacture of the substance/mixture

Product type: _

Manufacturer /Supplier:

Shanghai University Nano-Science & Technology Institute Special Ink R&D Department

No.149 Yanchang Road,Shanghai,China

Phone: 86-21-56331532

Fax: 86-21-56331117

Web: www.inksh.com

Further information obtainable from:

Technical service , Howard Young

Tel: 86-021-56331532

Mobile : 86-13761677741

Information in case of emergency:

Tel: 86-13761677741

2. Hazards identification

Classification of the mixture:

Classification: The mixture is not classified according European Regulation CLP N° 1272/2008 /EC with its adaptation.

Label elements:

No marking according Regulation CLP N°1272/2008/EC.

Others Hazard:

There is not having other hazard classification information about the mixture for present knowledge.

3. Composition /information on ingredients**Chemical characterization**

Mixture of the following substances: containing non-hazardous substances and coloring pigments.

Description: The following material classification according to 1999/45/EC and CLP N°1272/2008/EC

Components:				
CAS	Chemical Name	1999/45/EC	CLP	Cone
3844-45-9	ACID BLUE 9	Not classified	Not classified	0.3%
1934-21-0	ACID YELLOW 23	Not classified	Not classified	1.0%
3520-42-1	ACID RED 18	Not classified	Not classified	1.0%
3734-67-6	ACID RED 1	Not classified	Not classified	1.0%
56-81-5	GLYCEROL	Not classified	Not classified	12%
7732-18-5	WATER	Not classified	Not classified	84.7%

Additional information: For the wording of the listed risk phrases refer to section 16.

4. First –aid measures

Inhalation: Move the affected person away from the contaminated area and into the fresh air

Skin contact: Immediately wash and rinse with plenty of water

Eye contact: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 min. minimum) Always refer to an eye specialist, even if there are no mediate symptoms.

Ingestion: Never attempt to induce vomiting . Call a doctor immediately

5. Fire –fighting measures

Suitable extinguishing media: Carbon dioxide (CO2). Foam. Powders

Not suitable extinguishing media: None to our knowledge. If there is a fire close by using suitable extinguishing agents

Specific hazards: During combustion: Toxic vapors may be released if product is heated to dryness.

Specific fire fighting methods: Do not attempt to fight the fire without suitable protective equipment may intervene

Protection of fire-fighters: Self-contained breathing apparatus Complete protective clothing

6. Accidental release measure

Personal precautions: Avoid contact with skin and eyes .Do not breathe vapour; Do not smoking..

Environmental precautions: Do not discharge into drains and rivers

Methods for cleaning up:

Neutralization: Absorb spillage with: inert absorbent material earth or sand

Cleaning/decontamination: Wash non-recoverable remainder with large amounts of water

Disposal: Dispose of contaminated materials in accordance with current regulations

7. Handling and storage**HANDLING**

Technical measures: Vapour extraction at source . Material and equipment suitable for use with Strongly colored water based liquids.

Precautions: Avoid any direct contact with the product . Work in a well-ventilated area .Smoking is forbidden .Avoid the build-up of electrostatic charge

STORAGE

Technical measures: The floor of the depot must be impermeable, noncombustible and designed to form a basin, in order that stored liquids should not, under any circumstances, be released outside

Storage conditions:

Recommended: Store: in a cool, well-ventilated area, the container tightly closed away from any source of ignition

Incompatible materials: Strong oxidizing agents

Packaging materials:

Not suitable: Can cause some metals to rust

8. Exposure controls / personal protection

Engineering measures: Ensure good ventilation of the work station .Extraction to remove vapours at their source

Occupational exposure limits:

France: Ethylene Glycol

Personal protective equipment:

Respiratory protection: In the event of insufficient ventilation:;Suitable breathing apparatus

Hand protection: Impermeable protective gloves

Eye protection: Safety spectacles

Skin and body protection: Suitable clothing

Collective emergency equipment: Eye fountain .Safety shower

Hygiene measures: Do not drink, eat or smoke in the workplace

9. Physical and chemical properties

General Information
Form : Fluid
Colour :brown
Odour : watery slightly
Ignition temperature : 287 °C
Self-igniting : Not determined
Danger of explosion : product does not present an explosion hazard
PH: 7.0-8.3
Vapour density (air=1): greater than 1
Solubility
in water : Miscible (in all proportions)
in organic solvents: Miscible (in all proportions) with: glycerol

10. Stability and reactivity

Stability: Stable at ambient temperature and under normal conditions of use

Hazardous reactions:

Conditions to avoid: May ignite on heating to dryness when all water is evaporated

Materials to avoid: Strong oxidizing agents

Hazardous decomposition

products: On combustion or on thermal decomposition

(pyrolysis) releases: Carbon oxides (CO, CO₂)

11. Toxicological information

Acute toxicity: Vapours may cause drowsiness and dizziness

Acute symptoms : On ingestion: Nausea., Vomiting., Central Nervous, System depressant ,

On inhalation: Dizziness, Headaches

Local effects : At high concentrations, the vapours can be irritating to the eyes, nose and throat .Repeated or prolonged contact may cause slight irritation to the skin,

Eye contact: May cause severe ocular lesions

Further information: Above information is for the ink. The ink will be contained in the fibrous reservoir of a small capacity marker containing 3 grams or less which will limit considerably the exposure possibilities for the user.

12. Ecological information

ECOTOXICITY: Effects on the aquatic environment: Ethylene Glycol
May cause adverse effects to the aquatic environment.

13. Disposal considerations**WASTE FROM PRODUCT:**

Destruction/Disposal: Dispose of in accordance with relevant local regulations

CONTAMINATED PACKAGING:

Destruction/disposal: Destroy at an authorized site

NOTE : The user's attention is drawn to the possible existence of specific European, national or
Local regulations regarding disposal

14. Transport information

International regulations: Not regulated

15. Regulatory information

The product is no classified in accordance with European Regulation on hazardous substance: Directive 67/548/CE 30^{ème} adaptation and on hazardous preparations: Directive 2006/8/CE

National prescriptions:

France: Maladies professionnelles (tableaux (x) n° 84) concern

NOTE : The regulatory information given above only indicate the principal regulations specifically applicable to the product described in the MSDS

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This safety data sheet was prepared in accordance with Regulation (EC) 1272/2008 (Regulation on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006).

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Safety Data Sheet

(In according with European Commission Directives 67/548/EEC, 1999/45/EC, Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 453/2010)

1. Identification of the Substance/Preparation/Company

Product detailsTrade name: **Washable Ink / Fluorescent Green****Substance/Mixture: Mixture/preparation****Form: Fluid****Relevant identified uses advised against**

Identified uses: Laboratory chemicals, Manufacture of the substance/mixture

Product type:..

Manufacturer /Supplier:

Shanghai University Nano-Science & Technology Institute Special Ink R&D Department

No.149 Yanchang Road,Shanghai,China

Phone: 86-21-56331532

Fax: 86-21-56331117

Web: www.inksh.com**Further information obtainable from:**

Technical service , Howard Young

Tel: 86-021-56331532

Mobile : 86-13761677741

Information in case of emergency:

Tel: 86-13761677741

2. Hazards identification

Classification of the mixture:

Classification: The mixture is not classified according European Regulation CLP N° 1272/2008 /EC with its adaptation.

Label elements:

No marking according Regulation CLP N°1272/2008/EC.

Others Hazard:

There is not having other hazard classification information about the mixture for present knowledge.

3. Composition /information on ingredients**Chemical characterization**

Mixture of the following substances: containing non-hazardous substances and coloring pigments.

Description: The following material classification according to 1999/45/EC and CLP N°1272/2008/EC

Components:				
CAS	Chemical Name	1999/45/EC	CLP	Cone
1934-21-0	ACID YELLOW 23	Not classified	Not classified	1.5%
3844-45-9	ACID BLUE	Not classified	Not classified	0.5%
56-81-5	GLYCEROL	Not classified	Not classified	12%
7732-18-5	WATER	Not classified	Not classified	86%

Additional information: For the wording of the listed risk phrases refer to section 16.

4. First –aid measures

Inhalation: Move the affected person away from the contaminated area and into the fresh air

Skin contact: Immediately wash and rinse with plenty of water

Eye contact: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 min. minimum) Always refer to an eye specialist, even if there are no mediate symptoms.

Ingestion: Never attempt to induce vomiting . Call a doctor immediately

5. Fire –fighting measures

Suitable extinguishing media: Carbon dioxide (CO2). Foam. Powders

Not suitable extinguishing media: None to our knowledge. If there is a fire close by using suitable extinguishing agents

Specific hazards: During combustion: Toxic vapors may be released if product is heated to dryness.

Specific fire fighting methods: Do not attempt to fight the fire without suitable protective equipment may intervene

Protection of fire-fighters: Self-contained breathing apparatus Complete protective clothing

6. Accidental release measure

Personal precautions: Avoid contact with skin and eyes .Do not breathe vapour; Do not smoking..

Environmental precautions: Do not discharge into drains and rivers

Methods for cleaning up:

Neutralization: Absorb spillage with: inert absorbent material earth or sand

Cleaning/decontamination: Wash non-recoverable remainder with large amounts of water

Disposal: Dispose of contaminated materials in accordance with current regulations

7. Handling and storage**HANDLING**

Technical measures: Vapour extraction at source . Material and equipment suitable for use with Strongly colored water based liquids.

Precautions: Avoid any direct contact with the product . Work in a well-ventilated area .Smoking is forbidden .Avoid the build-up of electrostatic charge

STORAGE

Technical measures: The floor of the depot must be impermeable, noncombustible and designed to form a basin, in order that stored liquids should not, under any circumstances, be released outside

Storage conditions:

Recommended: Store: in a cool, well-ventilated area, the container tightly closed away from any source of ignition

Incompatible materials: Strong oxidizing agents

Packaging materials:

Not suitable: Can cause some metals to rust

8. Exposure controls / personal protection

Engineering measures: Ensure good ventilation of the work station .Extraction to remove vapours at their source

Occupational exposure limits:

France: Ethylene Glycol

Personal protective equipment:

Respiratory protection: In the event of insufficient ventilation:.,Suitable breathing apparatus

Hand protection: Impermeable protective gloves

Eye protection: Safety spectacles

Skin and body protection: Suitable clothing

Collective emergency equipment: Eye fountain .Safety shower

Hygiene measures: Do not drink, eat or smoke in the workplace

9. Physical and chemical properties

General Information
Form : Fluid
Colour :fluorescent green
Odour : watery slightly
Ignition temperature : 287 °C
Self-igniting : Not determined
Danger of explosion : product does not present an explosion hazard
PH: 7.0-8.3
Vapour density (air=1): greater than 1
Solubility
in water : Miscible (in all proportions)
in organic solvents: Miscible (in all proportions) with: glycerol

10. Stability and reactivity

Stability: Stable at ambient temperature and under normal conditions of use

Hazardous reactions:

Conditions to avoid: May ignite on heating to dryness when all water is evaporated

Materials to avoid: Strong oxidizing agents

Hazardous decomposition

products: On combustion or on thermal decomposition

(pyrolysis) releases: Carbon oxides (CO, CO₂)

11. Toxicological information

Acute toxicity: Vapours may cause drowsiness and dizziness

Acute symptoms : On ingestion: Nausea., Vomiting., Central Nervous, System depressant ,

On inhalation: Dizziness, Headaches

Local effects : At high concentrations, the vapours can be irritating to the eyes, nose and throat .Repeated or prolonged contact may cause slight irritation to the skin,

Eye contact: May cause severe ocular lesions

Further information: Above information is for the ink. The ink will be contained in the fibrous reservoir of a small capacity marker containing 3 grams or less which will limit considerably the exposure possibilities for the user.

12. Ecological information

ECOTOXICITY: Effects on the aquatic environment: Ethylene Glycol
May cause adverse effects to the aquatic environment.

13. Disposal considerations**WASTE FROM PRODUCT:**

Destruction/Disposal: Dispose of in accordance with relevant local regulations

CONTAMINATED PACKAGING:

Destruction/disposal: Destroy at an authorized site

NOTE : The user's attention is drawn to the possible existence of specific European, national or
Local regulations regarding disposal

14. Transport information

International regulations: Not regulated

15. Regulatory information

The product is not classified in accordance with European Regulation on hazardous substance: Directive 67/548/CE 30^{ème} adaptation and on hazardous preparations: Directive 2006/8/CE

National prescriptions:

France: Maladies professionnelles (tableaux (x) n° 84) concern

NOTE : The regulatory information given above only indicate the principal regulations specifically applicable to the product described in the MSDS

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This safety data sheet was prepared in accordance with Regulation (EC) 1272/2008 (Regulation on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006).

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Safety Data Sheet

(In according with European Commission Directives 67/548/EEC, 1999/45/EC, Regulation (EC) No 1907/2006, Regulation (EC) No 1272/2008 and Regulation (EU) No 453/2010)

1. Identification of the Substance/Preparation/Company

Product detailsTrade name: **Washable Ink / grass green****Substance/Mixture: Mixture/preparation****Form: Fluid****Relevant identified uses advised against**

Identified uses: Laboratory chemicals, Manufacture of the substance/mixture

Product type: _

Manufacturer /Supplier:

Shanghai University Nano-Science & Technology Institute Special Ink R&D Department

No. 149 Yanchang Road, Shanghai, China

Phone: 86-21-56331532

Fax: 86-21-56331117

Web: www.inksh.com

Further information obtainable from:

Technical service , Howard Young

Tel: 86-021-56331532

Mobile : 86-13761677741

Information in case of emergency:

Tel: 86-13761677741

2. Hazards identification

Classification of the mixture:

Classification: The mixture is not classified according European Regulation CLP N° 1272/2008 /EC with its adaptation.

Label elements:

No marking according Regulation CLP N°1272/2008/EC.

Others Hazard:

There is not having other hazard classification information about the mixture for present knowledge.

3. Composition /information on ingredients**Chemical characterization**

Mixture of the following substances: containing non-hazardous substances and coloring pigments.

Description: The following material classification according to 1999/45/EC and CLP N°1272/2008/EC

Components:				
CAS	Chemical Name	1999/45/EC	CLP	Cone
3844-45-9	ACID BLUE 9	Not classified	Not classified	0.5%
1934-21-0	ACID YELLOW 23	Not classified	Not classified	1.0%
56-81-5	GLYCEROL	Not classified	Not classified	12%
7732-18-5	WATER	Not classified	Not classified	86.5%

Additional information: For the wording of the listed risk phrases refer to section 16.

4. First –aid measures

Inhalation: Move the affected person away from the contaminated area and into the fresh air

Skin contact: Immediately wash and rinse with plenty of water

Eye contact: Rinse immediately and thoroughly, pulling the eyelids well away from the eye (15 min. minimum) Always refer to an eye specialist, even if there are no mediate symptoms.

Ingestion: Never attempt to induce vomiting . Call a doctor immediately

5. Fire –fighting measures

Suitable extinguishing media: Carbon dioxide (CO₂). Foam. Powders

Not suitable extinguishing media: None to our knowledge. If there is a fire close by using suitable extinguishing agents

Specific hazards: During combustion: Toxic vapors may be released if product is heated to dryness.

Specific fire fighting methods: Do not attempt to fight the fire without suitable protective equipment may intervene

Protection of fire-fighters: Self-contained breathing apparatus Complete protective clothing

6. Accidental release measure

Personal precautions: Avoid contact with skin and eyes .Do not breathe vapour; Do not smoking..

Environmental precautions: Do not discharge into drains and rivers

Methods for cleaning up:

Neutralization: Absorb spillage with: inert absorbent material earth or sand

Cleaning/decontamination: Wash non-recoverable remainder with large amounts of water

Disposal: Dispose of contaminated materials in accordance with current regulations

7. Handling and storage**HANDLING**

Technical measures: Vapour extraction at source . Material and equipment suitable for use with Strongly colored water based liquids.

Precautions: Avoid any direct contact with the product . Work in a well-ventilated area .Smoking is forbidden .Avoid the build-up of electrostatic charge

STORAGE

Technical measures: The floor of the depot must be impermeable, noncombustible and designed to form a basin, in order that stored liquids should not, under any circumstances, be released outside

Storage conditions:

Recommended: Store: in a cool, well-ventilated area, the container tightly closed away from any source of ignition

Incompatible materials: Strong oxidizing agents

Packaging materials:

Not suitable: Can cause some metals to rust

8. Exposure controls / personal protection

Engineering measures: Ensure good ventilation of the work station .Extraction to remove vapours at their source

Occupational exposure limits:

France: Ethylene Glycol

Personal protective equipment:

Respiratory protection: In the event of insufficient ventilation:;Suitable breathing apparatus

Hand protection: Impermeable protective gloves

Eye protection: Safety spectacles

Skin and body protection: Suitable clothing

Collective emergency equipment: Eye fountain .Safety shower

Hygiene measures: Do not drink, eat or smoke in the workplace

9. Physical and chemical properties**General Information**

Form : Fluid

Colour : grass green

Odour : watery slightly

Ignition temperature : 287 °C

Self-igniting : Not determined

Danger of explosion : product does not present an explosion hazard

PH: 7.0-8.3

Vapour density (air=1): greater than 1

Solubility

in water : Miscible (in all proportions)

in organic solvents: Miscible (in all proportions) with: glycerol

10. Stability and reactivity

Stability: Stable at ambient temperature and under normal conditions of use

Hazardous reactions:

Conditions to avoid: May ignite on heating to dryness when all water is evaporated

Materials to avoid: Strong oxidizing agents

Hazardous decomposition

products: On combustion or on thermal decomposition

(pyrolysis) releases: Carbon oxides (CO, CO₂)**11. Toxicological information**

Acute toxicity: Vapours may cause drowsiness and dizziness

Acute symptoms : On ingestion: Nausea., Vomiting., Central Nervous, System depressant ,

On inhalation: Dizziness, Headaches

Local effects : At high concentrations, the vapours can be irritating to the eyes, nose and throat .Repeated or prolonged contact may cause slight irritation to the skin,

Eye contact: May cause severe ocular lesions

Further information: Above information is for the ink. The ink will be contained in the fibrous reservoir of a small capacity marker containing 3 grams or less which will limit considerably the exposure possibilities for the user.

12. Ecological information

ECOTOXICITY: Effects on the aquatic environment: Ethylene Glycol
May cause adverse effects to the aquatic environment.

13. Disposal considerations**WASTE FROM PRODUCT:**

Destruction/Disposal: Dispose of in accordance with relevant local regulations

CONTAMINATED PACKAGING:

Destruction/disposal: Destroy at an authorized site

NOTE : The user's attention is drawn to the possible existence of specific European, national or
Local regulations regarding disposal

14. Transport information

International regulations: Not regulated

15. Regulatory information

The product is no classified in accordance with European Regulation on hazardous substance: Directive 67/548/CE 30^{ème} adaptation and on hazardous preparations: Directive 2006/8/CE

National prescriptions:

France: Maladies professionnelles (tableaux (x) n° 84) concern

NOTE : The regulatory information given above only indicate the principal regulations specifically applicable to the product described in the MSDS

16. Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

This safety data sheet was prepared in accordance with Regulation (EC) 1272/2008 (Regulation on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006).