

## MATERIAL SAFETY DATA SHEET

Date of Issue: Dec19,2008

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Name** : TAT INDELIBLE INK (Quick Dry) STSG-1,STSG-3  
 Color : (Black)  
**Company Name** : Shachihata Inc.  
**Address** : 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan  
**Telephone** : + 81- 52- 521- 3600  
**Fax** : + 81- 52- 521- 3899  
**Emergency information** : + 81- 52- 521- 3600 (Shachihata Inc. [Japan])  
**Use of the Product** : Stamp ink



### SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS FOR INK

**Substance/Preparation** : Preparation  
**Ingredients** :



Chemical Name / Generic name	Composition weight %	CAS Registry No.	TSCA/EINECS inventory	EU Symbol/ R-Phrase
1-ethoxypropan-2-ol	50 ~ 60	1569-02-4	listed	R 10/67
(2-methoxymethylethoxy)propanol	20 ~ 30	34590-94-8	listed	Not required
Synthetic resin	10 ~ 20	Confidential	listed	Not required
Carbon black	1 ~ 10	1333-86-4	listed	Not required
total	100			

The wording of the symbol(s) and risk phrase(s) is specified in 15.REGULATORY INFORMATION.

### SECTION 3 HAZARDS IDENTIFICATION

**Emergency Overview** : Flammable liquid with a solvent odor.  
**Potential Health Effects and Symptoms** : Vapours may cause drowsiness and dizziness.  
 See SECTION11 and SECTION15

### SECTION 4 FIRST AID MEASURES

**Inhalation** : Supply fresh air. If required, provide artificial respiration. Keep patient warm.  
 Consult a doctor if symptoms persist.  
**Ingestion** : Immediately consult a doctor.  
**Eye** : Wash the eyes immediately with large amounts of running water for over 15 minutes,  
 and consult a doctor for medical advice.  
**Skin** : Wipe off with dry cloth and wash with soap and water.  
 If irritation persists, consult a doctor for medical advice.

### SECTION 5 FIRE FIGHTING MEASURES

**Suitable extinguishing agents** : Dry chemical powder, foam or carbon dioxide.

**For safety reasons unsuitable extinguishing agents** : Water.

**Protective equipment** : Mount respiratory protective device.

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** : Avoid contact with skin, eyes and clothing.

**Environmental Precautions** : Do not release to sewer, surface water or ground water.

**Method for Cleaning Up** : Wipe off with wet cloth or paper.

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**SECTION 7 HANDLING AND STORAGE**

**Handling** : Use with adequate ventilation.  
Avoid contact with skin, eyes and clothing.  
Avoid inhalation and ingestion.  
In case of contact, wash out the contaminated area immediately.

**Storage** : Keep in a cool and dry place. Protect from sunlight.  
Keep away from heat and flame.  
Keep out of the reach of children.

**Specific Uses** : Ink for stamp

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**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE LIMIT VALUES** : 34590-94-8 (2-methoxymethylethoxy)propanol  
ACGIH TLV-TWA (SKIN) 100ppm  
OSHA PEL-TWA (SKIN) 100ppm

1333-86-4 Carbon black  
ACGIH TLV-TWA 3.5 mg/m3  
OSHA PEL-TWA 3.5 mg/m3

**EXPOSURE CONTROLS** : Use adequate ventilation.

**PERSONAL PROTECTION** : Respiratory Protection  
Use with local exhaust ventilation, when in long use.  
: Hand Protection  
Not required, but wear safety gloves, if necessary.  
: Eye Protection  
Not required, but wear safety glasses, if necessary.  
: Skin Protection  
To prevent ANY contact, wear impervious clothing such as gloves, apron, as appropriate.

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** : black liquid

**Odor** : minor solvent odor

**pH:** : Not applicable

**Boiling point / boiling range** : No data available

**Flash point** : 41 (closed cup)

**Explosive properties** : None

Relative Density (at 25 ) : 1.0 ~ 1.1 ( g/cm<sup>3</sup>)

Solubility in Water : Insoluble

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**SECTION 10 STABILITY AND REACTIVITY**

Stability : Stable

Conditions to Avoid : High temperature, Direct sunlight, Fire

Materials to avoided : Strong acid and base

Hazardous Decomposition Products : CO, CO2

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**SECTION 11 TOXICOLOGICAL INFORMATION**

Acute toxicity : LD/LC50 values that are relevant for classification  
[1-ethoxypropan-2-ol]

Oral-rat LD50 >5,000mg/kg  
Inhalation-rat LC50 >10,000ppm/4H  
Dermal-rabbit LD50 9ml/kg

[(2-methoxymethylethoxy)propanol]

Oral-rat LD50 5,180mg/kg  
Inhalation-rat LC50 >500ppm/7H  
Dermal-rabbit LD50 9,500mg/kg

Carcinogenicity : Carbon black has been classified by the IARC as Group 2B:  
Possibly Carcinogenic to Humans.

[carbon black]

International Agency for Research on Cancer (IARC) Carcinogens Group		2B
US ACGIH Threshold Limit Values (TLV) - Carcinogens	Carcinogen Category	A4
US Environmental Defense Scorecard Recognized Carcinogens	Reference(s)	P65

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**SECTION 12 ECOLOGICAL INFORMATION**

General notes : Do not allow product to reach ground water, water course or sewage system.

Ecotoxicity : No data available

Bioaccumulation : No data available

Other Adverse Effects : No data available

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**SECTION 13 DISPOSAL CONSIDERATION**

Disposal must be made according to official regulations.

Comply with all Federal, State, and Local regulations regarding disposal.

**Do not allow product to reach ground, any water course or sewage system.**

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**SECTION 14 TRANSPORT INFORMATION**

UN Number : 1210

UN Shipping Name : Printing ink

UN Classification : 3

UN Packing Group :

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## **SECTION 15      REGULATORY INFORMATION**

### < EU Information >

Symbol : None  
[1-ethoxypropan-2-ol]  
R-Phrase : R10 : Flammable.  
R67 : Vapours may cause drowsiness and dizziness.  
S-Phrase : S2 : Keep out of the reach of children.  
S24 : Avoid contact with skin.

### < USA Information >

TSCA STATUS : All components on TSCA INVENTORY.  
OSHA Regulations ( 29 CFR 1910 Occupational Safety and Health Standards )  
: Combustible liquid  
Hazardous Substances (OSHA,ACGIH listed)  
Superfund Amendments and Reauthorization Act of 1986(SARA) TITLE ,Section313  
: Not listed  
TSCA Hazard Communication Program (40 CFR 721.72) (SNUR)  
: Not listed  
California Proposition 65 (Chemicals known to cause cancer)  
: listed [carbon black]

Refer to any other federal , state , EU , national and local regulations.

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## **SECTION 16      OTHER INFORMATION**



EU RoHS Directive(2002/95/EC) and ELV Directive(2000/53/EC)  
This product not contain lead,mercury, cadmium, hexavalent chromium,  
polybromiated biphenyls (PBB) or polybrominated diphenylethers (PBDE).

This information is furnished in good faith as our present best knowledge of Shachihata Inc. No warranty, either expressed or implied, is hereby made. The Information is provided upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. Any use of the Information must be determined by the user to be in accordance with applicable Federal, state and local laws and regulations. In no event will the company/manufacturer be responsible for damages of any nature whatsoever resulting from the use or reliance upon the Information.



# MATERIAL SAFETY DATA SHEET

Date of Issue: Dec19,2008

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Name** : TAT INDELIBLE INK (Quick Dry) STSG-1,STSG-3  
 Color : (Red)  
**Company Name** : Shachihata Inc.  
**Address** : 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan  
**Telephone** : + 81- 52- 521- 3600  
**Fax** : + 81- 52- 521- 3899  
**Emergency information** : + 81- 52- 521- 3600 (Shachihata Inc. [Japan])  
**Use of the Product** : Stamp ink



## SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS FOR INK

**Substance/Preparation** : Preparation  
**Ingredients** :



Chemical Name / Generic name	Composition weight %	CAS Registry No.	TSCA/EINECS inventory	EU Symbol/ R-Phrase
1-ethoxypropan-2-ol	50 ~ 60	1569-02-4	listed	R 10/67
(2-methoxymethylethoxy)propanol	20 ~ 30	34590-94-8	listed	Not required
Synthetic resin	10 ~ 20	Confidential	listed	Not required
Organic Pigment	1 ~ 10	Confidential	listed	Not required
total	100			

The wording of the symbol(s) and risk phrase(s) is specified in 15.REGULATORY INFORMATION.

## SECTION 3 HAZARDS IDENTIFICATION

**Emergency Overview** : Flammable liquid with a solvent odor.  
**Potential Health Effects and Symptoms** : Vapours may cause drowsiness and dizziness.  
 See SECTION11 and SECTION15

## SECTION 4 FIRST AID MEASURES

**Inhalation** : Supply fresh air. If required, provide artificial respiration. Keep patient warm.  
 Consult a doctor if symptoms persist.  
**Ingestion** : Immediately consult a doctor.  
**Eye** : Wash the eyes immediately with large amounts of running water for over 15 minutes,  
 and consult a doctor for medical advice.  
**Skin** : Wipe off with dry cloth and wash with soap and water.  
 If irritation persists, consult a doctor for medical advice.

## SECTION 5 FIRE FIGHTING MEASURES

**Suitable extinguishing agents** : Dry chemical powder, foam or carbon dioxide.

**For safety reasons unsuitable extinguishing agents** : Water.

**Protective equipment** : Mount respiratory protective device.

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** : Avoid contact with skin, eyes and clothing.

**Environmental Precautions** : Do not release to sewer, surface water or ground water.

**Method for Cleaning Up** : Wipe off with wet cloth or paper.

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**SECTION 7 HANDLING AND STORAGE**

**Handling** : Use with adequate ventilation.  
Avoid contact with skin, eyes and clothing.  
Avoid inhalation and ingestion.  
In case of contact, wash out the contaminated area immediately.

**Storage** : Keep in a cool and dry place. Protect from sunlight.  
Keep away from heat and flame.  
Keep out of the reach of children.

**Specific Uses** : Ink for stamp

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**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE LIMIT VALUES** : 34590-94-8 (2-methoxymethylethoxy)propanol  
ACGIH TLV-TWA (SKIN) 100ppm  
OSHA PEL-TWA (SKIN) 100ppm

**EXPOSURE CONTROLS** : Use adequate ventilation.

**PERSONAL PROTECTION** : Respiratory Protection  
Use with local exhaust ventilation, when in long use.  
: Hand Protection  
Not required, but wear safety gloves, if necessary.  
: Eye Protection  
Not required, but wear safety glasses, if necessary.  
: Skin Protection  
To prevent ANY contact, wear impervious clothing such as gloves, apron, as appropriate.

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** : red liquid

**Odor** : minor solvent odor

**pH:** : Not applicable

**Boiling point / boiling range** : No data available

**Flash point** : 41 (closed cup)

**Explosive properties** : None

**Relative Density (at 25 )** : 1.0 ~ 1.1 (g/cm<sup>3</sup>)

**Solubility in Water** : Insoluble

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**SECTION 10 STABILITY AND REACTIVITY**

**Stability** : Stable

**Conditions to Avoid** : High temperature, Direct sunlight, Fire

**Materials to avoided** : Strong acid and base

**Hazardous Decomposition Products** : CO, CO2

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**SECTION 11 TOXICOLOGICAL INFORMATION**

**Acute toxicity** : LD/LC50 values that are relevant for classification

[1-ethoxypropan-2-ol]

Oral-rat	LD50	>5,000mg/kg
Inhalation-rat	LC50	>10,000ppm/4H
Dermal-rabbit	LD50	9ml/kg

[(2-methoxymethylethoxy)propanol]

Oral-rat	LD50	5,180mg/kg
Inhalation-rat	LC50	>500ppm/7H
Dermal-rabbit	LD50	9,500mg/kg

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**SECTION 12 ECOLOGICAL INFORMATION**

**General notes** : Do not allow product to reach ground water, water course or sewage system.

**Ecotoxicity** : No data available

**Bioaccumulation** : No data available

**Other Adverse Effects** : No data available

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**SECTION 13 DISPOSAL CONSIDERATION**

Disposal must be made according to official regulations.  
Comply with all Federal, State, and Local regulations regarding disposal.  
**Do not allow product to reach ground, any water course or sewage system.**

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**SECTION 14 TRANSPORT INFORMATION**

**UN Number** : 1210

**UN Shipping Name** : Printing ink

**UN Classification** : 3

**UN Packing Group** :

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**SECTION 15 REGULATORY INFORMATION**

< EU Information >

Symbol : None

[1-ethoxypropan-2-ol]

R-Phrase : R10 : Flammable.  
R67 : Vapours may cause drowsiness and dizziness.

S-Phrase : S2 : Keep out of the reach of children.  
S24 : Avoid contact with skin.

< USA Information >

TSCA STATUS : All components on TSCA INVENTORY.

OSHA Regulations ( 29 CFR 1910 Occupational Safety and Health Standards )

: Combustible liquid

Hazardous Substances (OSHA,ACGIH listed)

Superfund Amendments and Reauthorization Act of 1986(SARA) TITLE ,Section313  
: Not listed  
TSCA Hazard Communication Program (40 CFR 721.72) (SNUR)  
: Not listed  
California Proposition 65 (Chemicals known to cause cancer)  
: Not listed

Refer to any other federal , state , EU , national and local regulations.

---

**SECTION 16 OTHER INFORMATION**



EU RoHS Directive(2002/95/EC) and ELV Directive(2000/53/EC)  
This product not contain lead,mercury, cadmium, hexavalent chromium,  
polybromiated biphenyls (PBB) or polybrominated diphenylethers (PBDE).

This information is furnished in good faith as our present best knowledge of Shachihata Inc. No warranty,either expressed or implied,is hereby made. The Information is provided upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. Any use of the Information must be determined by the user to be in accordance with applicable Federal,state and local laws and regulations. In no event will the company/mannufacturer be responsible for damages of any nature whatsoever resulting from the use or reliance upon the Information.





# MATERIAL SAFETY DATA SHEET

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## SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Name** : TAT INDELIBLE INK (Quick Dry) STSG-1,STSG-3  
 Color : (Blue)  
**Company Name** : Shachihata Inc.  
**Address** : 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan  
**Telephone** : + 81- 52- 521- 3600  
**Fax** : + 81- 52- 521- 3899  
**Emergency information** : + 81- 52- 521- 3600 (Shachihata Inc. [Japan])  
**Use of the Product** : Stamp ink



## SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS FOR INK

**Substance/Preparation** : Preparation  
**Ingredients** :



Chemical Name / Generic name	Composition weight %	CAS Registry No.	TSCA/EINECS inventory	EU Symbol/ R-Phrase
1-ethoxypropan-2-ol	50 ~ 60	1569-02-4	listed	R 10/67
(2-methoxymethylethoxy)propanol	20 ~ 30	34590-94-8	listed	Not required
Synthetic resin	10 ~ 20	Confidential	listed	Not required
Organic Pigment	1 ~ 10	Confidential	listed	Not required
total	100			

The wording of the symbol(s) and risk phrase(s) is specified in 15.REGULATORY INFORMATION.

## SECTION 3 HAZARDS IDENTIFICATION

**Emergency Overview** : Flammable liquid with a solvent odor.  
**Potential Health Effects and Symptoms** : Vapours may cause drowsiness and dizziness.  
 See SECTION11 and SECTION15

## SECTION 4 FIRST AID MEASURES

**Inhalation** : Supply fresh air. If required, provide artificial respiration. Keep patient warm.  
 Consult a doctor if symptoms persist.  
**Ingestion** : Immediately consult a doctor.  
**Eye** : Wash the eyes immediately with large amounts of running water for over 15 minutes,  
 and consult a doctor for medical advice.  
**Skin** : Wipe off with dry cloth and wash with soap and water.  
 If irritation persists, consult a doctor for medical advice.

---

**SECTION 5 FIRE FIGHTING MEASURES**

- Suitable extinguishing agents** : Dry chemical powder, foam or carbon dioxide.
- For safety reasons unsuitable extinguishing agents** : Water.
- Protective equipment** : Mount respiratory protective device.

---

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

- Personal Precautions** : Avoid contact with skin, eyes and clothing.
- Environmental Precautions** : Do not release to sewer, surface water or ground water.
- Method for Cleaning Up** : Wipe off with wet cloth or paper.

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**SECTION 7 HANDLING AND STORAGE**

- Handling** : Use with adequate ventilation.  
Avoid contact with skin, eyes and clothing.  
Avoid inhalation and ingestion.  
In case of contact, wash out the contaminated area immediately.
- Storage** : Keep in a cool and dry place. Protect from sunlight.  
Keep away from heat and flame.  
Keep out of the reach of children.
- Specific Uses** : Ink for stamp

---

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

- EXPOSURE LIMIT VALUES** : 34590-94-8 (2-methoxymethylethoxy)propanol  
ACGIH TLV-TWA (SKIN) 100ppm  
OSHA PEL-TWA (SKIN) 100ppm
- EXPOSURE CONTROLS** : Use adequate ventilation.
- PERSONAL PROTECTION** : Respiratory Protection  
Use with local exhaust ventilation, when in long use.  
: Hand Protection  
Not required, but wear safety gloves, if necessary.  
: Eye Protection  
Not required, but wear safety glasses, if necessary.  
: Skin Protection  
To prevent ANY contact, wear impervious clothing such as gloves, apron, as appropriate.

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance** : blue liquid
- Odor** : minor solvent odor
- pH:** : Not applicable
- Boiling point / boiling range** : No data available
- Flash point** : 41 (closed cup)
- Explosive properties** : None

Relative Density (at 25 ) : 1.0 ~ 1.1 ( g/cm<sup>3</sup>)

Solubility in Water : Insoluble

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**SECTION 10 STABILITY AND REACTIVITY**

Stability : Stable

Conditions to Avoid : High temperature, Direct sunlight, Fire

Materials to avoided : Strong acid and base

Hazardous Decomposition Products : CO, CO<sub>2</sub>

---

**SECTION 11 TOXICOLOGICAL INFORMATION**

Acute toxicity : LD/LC50 values that are relevant for classification

[1-ethoxypropan-2-ol]			
Oral-rat	LD50	>5,000mg/kg	
Inhalation-rat	LC50	>10,000ppm/4H	
Dermal-rabbit	LD50	9ml/kg	
[(2-methoxymethylethoxy)propanol]			
Oral-rat	LD50	5,180mg/kg	
Inhalation-rat	LC50	>500ppm/7H	
Dermal-rabbit	LD50	9,500mg/kg	

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**SECTION 12 ECOLOGICAL INFORMATION**

General notes : Do not allow product to reach ground water, water course or sewage system.

Ecotoxicity : No data available

Bioaccumulation : No data available

Other Adverse Effects : No data available

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**SECTION 13 DISPOSAL CONSIDERATION**

Disposal must be made according to official regulations.

Comply with all Federal, State, and Local regulations regarding disposal.

**Do not allow product to reach ground, any water course or sewage system.**

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**SECTION 14 TRANSPORT INFORMATION**

UN Number : 1210

UN Shipping Name : Printing ink

UN Classification : 3

UN Packing Group :

---

**SECTION 15 REGULATORY INFORMATION**

< EU Information >

Symbol : None

[1-ethoxypropan-2-ol]

R-Phrase : R10 : Flammable.

R67 : Vapours may cause drowsiness and dizziness.

S-Phrase : S2 : Keep out of the reach of children.

S24 : Avoid contact with skin.

< USA Information >

TSCA STATUS : All components on TSCA INVENTORY.  
OSHA Regulations ( 29 CFR 1910 Occupational Safety and Health Standards )  
: Combustible liquid  
Hazardous Substances (OSHA,ACGIH listed)  
Superfund Amendments and Reauthorization Act of 1986(SARA) TITLE ,Section313  
: Not listed  
TSCA Hazard Communication Program (40 CFR 721.72) (SNUR)  
: Not listed  
California Proposition 65 (Chemicals known to cause cancer)  
: Not listed

Refer to any other federal , state , EU , national and local regulations.

---

**SECTION 16 OTHER INFORMATION**



EU RoHS Directive(2002/95/EC) and ELV Directive(2000/53/EC)  
This product not contain lead,mercury, cadmium, hexavalent chromium,  
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**Product Name** : TAT INDELIBLE INK (Quick Dry) STSG-1,STSG-3  
 Color : (Green)  
**Company Name** : Shachihata Inc.  
**Address** : 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan  
**Telephone** : + 81- 52- 521- 3600  
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**Emergency information** : + 81- 52- 521- 3600 (Shachihata Inc. [Japan])  
**Use of the Product** : Stamp ink



## SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS FOR INK

**Substance/Preparation** : Preparation  
**Ingredients** :



Chemical Name / Generic name	Composition weight %	CAS Registry No.	TSCA/EINECS inventory	EU Symbol/ R-Phrase
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(2-methoxymethylethoxy)propanol	20 ~ 30	34590-94-8	listed	Not required
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total	100			

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## SECTION 3 HAZARDS IDENTIFICATION

**Emergency Overview** : Flammable liquid with a solvent odor.  
**Potential Health Effects and Symptoms** : Vapours may cause drowsiness and dizziness.  
 See SECTION11 and SECTION15

## SECTION 4 FIRST AID MEASURES

**Inhalation** : Supply fresh air. If required, provide artificial respiration. Keep patient warm.  
 Consult a doctor if symptoms persist.  
**Ingestion** : Immediately consult a doctor.  
**Eye** : Wash the eyes immediately with large amounts of running water for over 15 minutes,  
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**Skin** : Wipe off with dry cloth and wash with soap and water.  
 If irritation persists, consult a doctor for medical advice.

---

**SECTION 5 FIRE FIGHTING MEASURES**

- Suitable extinguishing agents** : Dry chemical powder, foam or carbon dioxide.
- For safety reasons unsuitable extinguishing agents** : Water.
- Protective equipment** : Mount respiratory protective device.

---

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

- Personal Precautions** : Avoid contact with skin, eyes and clothing.
- Environmental Precautions** : Do not release to sewer, surface water or ground water.
- Method for Cleaning Up** : Wipe off with wet cloth or paper.

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**SECTION 7 HANDLING AND STORAGE**

- Handling** : Use with adequate ventilation.  
Avoid contact with skin, eyes and clothing.  
Avoid inhalation and ingestion.  
In case of contact, wash out the contaminated area immediately.
- Storage** : Keep in a cool and dry place. Protect from sunlight.  
Keep away from heat and flame.  
Keep out of the reach of children.
- Specific Uses** : Ink for stamp

---

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

- EXPOSURE LIMIT VALUES** : 34590-94-8 (2-methoxymethylethoxy)propanol  
ACGIH TLV-TWA (SKIN) 100ppm  
OSHA PEL-TWA (SKIN) 100ppm
- EXPOSURE CONTROLS** : Use adequate ventilation.
- PERSONAL PROTECTION** : Respiratory Protection  
Use with local exhaust ventilation, when in long use.  
: Hand Protection  
Not required, but wear safety gloves, if necessary.  
: Eye Protection  
Not required, but wear safety glasses, if necessary.  
: Skin Protection  
To prevent ANY contact, wear impervious clothing such as gloves, apron, as appropriate.

---

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

- Appearance** : green liquid
- Odor** : minor solvent odor
- pH:** : Not applicable
- Boiling point / boiling range** : No data available
- Flash point** : 41 (closed cup)
- Explosive properties** : None

Relative Density (at 25 ) : 1.0 ~ 1.1 ( g/cm<sup>3</sup>)

Solubility in Water : Insoluble

---

## **SECTION 10 STABILITY AND REACTIVITY**

Stability : Stable

Conditions to Avoid : High temperature, Direct sunlight, Fire

Materials to avoided : Strong acid and base

Hazardous Decomposition Products : CO, CO<sub>2</sub>

---

## **SECTION 11 TOXICOLOGICAL INFORMATION**

Acute toxicity : LD/LC50 values that are relevant for classification  
[1-ethoxypropan-2-ol]  
Oral-rat LD50 >5,000mg/kg  
Inhalation-rat LC50 >10,000ppm/4H  
Dermal-rabbit LD50 9ml/kg  
[(2-methoxymethylethoxy)propanol]  
Oral-rat LD50 5,180mg/kg  
Inhalation-rat LC50 >500ppm/7H  
Dermal-rabbit LD50 9,500mg/kg

---

## **SECTION 12 ECOLOGICAL INFORMATION**

General notes : Do not allow product to reach ground water, water course or sewage system.

Ecotoxicity : No data available

Bioaccumulation : No data available

Other Adverse Effects : No data available

---

## **SECTION 13 DISPOSAL CONSIDERATION**

Disposal must be made according to official regulations.

Comply with all Federal, State, and Local regulations regarding disposal.

**Do not allow product to reach ground, any water course or sewage system.**

---

## **SECTION 14 TRANSPORT INFORMATION**

UN Number : 1210

UN Shipping Name : Printing ink

UN Classification : 3

UN Packing Group :

---

## **SECTION 15 REGULATORY INFORMATION**

< EU Information >

Symbol : None

[1-ethoxypropan-2-ol]

R-Phrase : R10 : Flammable.

R67 : Vapours may cause drowsiness and dizziness.

S-Phrase : S2 : Keep out of the reach of children.

S24 : Avoid contact with skin.

< USA Information >

TSCA STATUS : All components on TSCA INVENTORY.  
OSHA Regulations ( 29 CFR 1910 Occupational Safety and Health Standards )  
: Combustible liquid  
Hazardous Substances (OSHA,ACGIH listed)  
Superfund Amendments and Reauthorization Act of 1986(SARA) TITLE ,Section313  
: Not listed  
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: Not listed  
California Proposition 65 (Chemicals known to cause cancer)  
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Refer to any other federal , state , EU , national and local regulations.

---

**SECTION 16 OTHER INFORMATION**



EU RoHS Directive(2002/95/EC) and ELV Directive(2000/53/EC)  
This product not contain lead,mercury, cadmium, hexavalent chromium,  
polybromiated biphenyls (PBB) or polybrominated diphenylethers (PBDE).

This information is furnished in good faith as our present best knowledge of Shachihata Inc. No warranty,either expressed or implied,is hereby made. The Information is provided upon the condition that the persons receiving same will make their own determination as to its suitability for their purposes prior to use. Any use of the Information must be determined by the user to be in accordance with applicable Federal,state and local laws and regulations. In no event will the company/mannufacturer be responsible for damages of any nature whatsoever resulting from the use or reliance upon the Information.





## MATERIAL SAFETY DATA SHEET

Date of Issue: Dec19,2008

### SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Name** : TAT INDELIBLE INK (Quick Dry) STSG-1,STSG-3  
 Color : (Purple)  
**Company Name** : Shachihata Inc.  
**Address** : 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan  
**Telephone** : + 81- 52- 521- 3600  
**Fax** : + 81- 52- 521- 3899  
**Emergency information** : + 81- 52- 521- 3600 (Shachihata Inc. [Japan])  
**Use of the Product** : Stamp ink



### SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS FOR INK

**Substance/Preparation** : Preparation  
**Ingredients** :



Chemical Name / Generic name	Composition weight %	CAS Registry No.	TSCA/EINECS inventory	EU Symbol/ R-Phrase
1-ethoxypropan-2-ol	50 ~ 60	1569-02-4	listed	R 10/67
(2-methoxymethylethoxy)propanol	20 ~ 30	34590-94-8	listed	Not required
Synthetic resin	10 ~ 20	Confidential	listed	Not required
Organic Pigment	1 ~ 10	Confidential	listed	Not required
total	100			

The wording of the symbol(s) and risk phrase(s) is specified in 15.REGULATORY INFORMATION.

### SECTION 3 HAZARDS IDENTIFICATION

**Emergency Overview** : Flammable liquid with a solvent odor.  
**Potential Health Effects and Symptoms** : Vapours may cause drowsiness and dizziness.  
 See SECTION11 and SECTION15

### SECTION 4 FIRST AID MEASURES

**Inhalation** : Supply fresh air. If required, provide artificial respiration. Keep patient warm.  
 Consult a doctor if symptoms persist.  
**Ingestion** : Immediately consult a doctor.  
**Eye** : Wash the eyes immediately with large amounts of running water for over 15 minutes,  
 and consult a doctor for medical advice.  
**Skin** : Wipe off with dry cloth and wash with soap and water.  
 If irritation persists, consult a doctor for medical advice.

### SECTION 5 FIRE FIGHTING MEASURES

**Suitable extinguishing agents** : Dry chemical powder, foam or carbon dioxide.

**For safety reasons unsuitable extinguishing agents** : Water.

**Protective equipment** : Mount respiratory protective device.

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**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** : Avoid contact with skin, eyes and clothing.

**Environmental Precautions** : Do not release to sewer, surface water or ground water.

**Method for Cleaning Up** : Wipe off with wet cloth or paper.

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**SECTION 7 HANDLING AND STORAGE**

**Handling** : Use with adequate ventilation.  
Avoid contact with skin, eyes and clothing.  
Avoid inhalation and ingestion.  
In case of contact, wash out the contaminated area immediately.

**Storage** : Keep in a cool and dry place. Protect from sunlight.  
Keep away from heat and flame.  
Keep out of the reach of children.

**Specific Uses** : Ink for stamp

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**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE LIMIT VALUES** : 34590-94-8 (2-methoxymethylethoxy)propanol  
ACGIH TLV-TWA (SKIN) 100ppm  
OSHA PEL-TWA (SKIN) 100ppm

**EXPOSURE CONTROLS** : Use adequate ventilation.

**PERSONAL PROTECTION** : Respiratory Protection  
Use with local exhaust ventilation, when in long use.  
: Hand Protection  
Not required, but wear safety gloves, if necessary.  
: Eye Protection  
Not required, but wear safety glasses, if necessary.  
: Skin Protection  
To prevent ANY contact, wear impervious clothing such as gloves, apron, as appropriate.

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**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** : purple liquid

**Odor** : minor solvent odor

**pH:** : Not applicable

**Boiling point / boiling range** : No data available

**Flash point** : 41 (closed cup)

**Explosive properties** : None

**Relative Density (at 25 )** : 1.0 ~ 1.1 (g/cm<sup>3</sup>)

**Solubility in Water** : Insoluble

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**SECTION 10 STABILITY AND REACTIVITY**

**Stability** : Stable

**Conditions to Avoid** : High temperature, Direct sunlight, Fire

**Materials to avoided** : Strong acid and base

**Hazardous Decomposition Products** : CO, CO2

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**SECTION 11 TOXICOLOGICAL INFORMATION**

**Acute toxicity** : LD/LC50 values that are relevant for classification

[1-ethoxypropan-2-ol]

Oral-rat	LD50	>5,000mg/kg
Inhalation-rat	LC50	>10,000ppm/4H
Dermal-rabbit	LD50	9ml/kg

[(2-methoxymethylethoxy)propanol]

Oral-rat	LD50	5,180mg/kg
Inhalation-rat	LC50	>500ppm/7H
Dermal-rabbit	LD50	9,500mg/kg

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**SECTION 12 ECOLOGICAL INFORMATION**

**General notes** : Do not allow product to reach ground water, water course or sewage system.

**Ecotoxicity** : No data available

**Bioaccumulation** : No data available

**Other Adverse Effects** : No data available

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**SECTION 13 DISPOSAL CONSIDERATION**

Disposal must be made according to official regulations.  
Comply with all Federal, State, and Local regulations regarding disposal.  
**Do not allow product to reach ground, any water course or sewage system.**

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**SECTION 14 TRANSPORT INFORMATION**

**UN Number** : 1210

**UN Shipping Name** : Printing ink

**UN Classification** : 3

**UN Packing Group** :

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**SECTION 15 REGULATORY INFORMATION**

< EU Information >

Symbol : None

[1-ethoxypropan-2-ol]

R-Phrase : R10 : Flammable.  
R67 : Vapours may cause drowsiness and dizziness.

S-Phrase : S2 : Keep out of the reach of children.  
S24 : Avoid contact with skin.

< USA Information >

TSCA STATUS : All components on TSCA INVENTORY.

OSHA Regulations ( 29 CFR 1910 Occupational Safety and Health Standards )  
: Combustible liquid  
Hazardous Substances (OSHA,ACGIH listed)

Superfund Amendments and Reauthorization Act of 1986(SARA) TITLE ,Section313  
: Not listed  
TSCA Hazard Communication Program (40 CFR 721.72) (SNUR)  
: Not listed  
California Proposition 65 (Chemicals known to cause cancer)  
: Not listed

Refer to any other federal , state , EU , national and local regulations.

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**SECTION 16 OTHER INFORMATION**



EU RoHS Directive(2002/95/EC) and ELV Directive(2000/53/EC)  
This product not contain lead,mercury, cadmium, hexavalent chromium,  
polybromiated biphenyls (PBB) or polybrominated diphenylethers (PBDE).

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# MATERIAL SAFETY DATA SHEET

Date of Issue: Dec19,2008

## SECTION 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product Name** : TAT INDELIBLE INK (Quick Dry) STSG-1,STSG-3  
 Color : (White)  
**Company Name** : Shachihata Inc.  
**Address** : 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan  
**Telephone** : + 81- 52- 521- 3600  
**Fax** : + 81- 52- 521- 3899  
**Emergency information** : + 81- 52- 521- 3600 (Shachihata Inc. [Japan])  
**Use of the Product** : Stamp ink



## SECTION 2 COMPOSITION/INFORMATION ON INGREDIENTS FOR INK

**Substance/Preparation** : Preparation  
**Ingredients** :



Chemical Name / Generic name	Composition weight %	CAS Registry No.	TSCA/EINECS inventory	EU Symbol/ R-Phrase
1-ethoxypropan-2-ol	30 ~ 40	1569-02-4	listed	R 10/67
(2-methoxymethylethoxy)propanol	10 ~ 20	34590-94-8	listed	Not required
Synthetic resin	20 ~ 30	Confidential	listed	Not required
Titanium dioxide	20 ~ 30	13463-67-7	listed	Not required
total	100			

The wording of the symbol(s) and risk phrase(s) is specified in 15.REGULATORY INFORMATION.

## SECTION 3 HAZARDS IDENTIFICATION

**Emergency Overview** : Flammable liquid with a solvent odor.  
**Potential Health Effects and Symptoms** : Vapours may cause drowsiness and dizziness.  
 See SECTION11 and SECTION15

## SECTION 4 FIRST AID MEASURES

**Inhalation** : Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult a doctor if symptoms persist.  
**Ingestion** : Immediately consult a doctor.  
**Eye** : Wash the eyes immediately with large amounts of running water for over 15 minutes, and consult a doctor for medical advice.  
**Skin** : Wipe off with dry cloth and wash with soap and water. If irritation persists, consult a doctor for medical advice.

## SECTION 5 FIRE FIGHTING MEASURES

**Suitable extinguishing agents** : Dry chemical powder, foam or carbon dioxide.

**For safety reasons unsuitable extinguishing agents** : Water.

**Protective equipment** : Mount respiratory protective device.

---

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Personal Precautions** : Avoid contact with skin, eyes and clothing.

**Environmental Precautions** : Do not release to sewer, surface water or ground water.

**Method for Cleaning Up** : Wipe off with wet cloth or paper.

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**SECTION 7 HANDLING AND STORAGE**

**Handling** : Use with adequate ventilation.  
Avoid contact with skin, eyes and clothing.  
Avoid inhalation and ingestion.  
In case of contact, wash out the contaminated area immediately.

**Storage** : Keep in a cool and dry place. Protect from sunlight.  
Keep away from heat and flame.  
Keep out of the reach of children.

**Specific Uses** : Ink for stamp

---

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**

**EXPOSURE LIMIT VALUES** : 34590-94-8 (2-methoxymethylethoxy)propanol  
ACGIH TLV-TWA (SKIN) 100ppm  
OSHA PEL-TWA (SKIN) 100ppm

13463-67-7 Titanium dioxide  
ACGIH TLV-TWA 10 mg/m3  
OSHA PEL-TWA 15 mg/m3

**EXPOSURE CONTROLS** : Use adequate ventilation.

**PERSONAL PROTECTION** : Respiratory Protection  
Use with local exhaust ventilation, when in long use.  
: Hand Protection  
Not required, but wear safety gloves, if necessary.  
: Eye Protection  
Not required, but wear safety glasses, if necessary.  
: Skin Protection  
To prevent ANY contact, wear impervious clothing such as gloves, apron, as appropriate.

---

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance** : white liquid

**Odor** : minor solvent odor

**pH:** : Not applicable

**Boiling point / boiling range** : No data available

**Flash point** : 41 (closed cup)

**Explosive properties** : None

Relative Density (at 25 ) : 1.1 ~ 1.2 ( g/cm<sup>3</sup>)

Solubility in Water : Insoluble

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**SECTION 10 STABILITY AND REACTIVITY**

Stability : Stable

Conditions to Avoid : High temperature, Direct sunlight, Fire

Materials to avoided : Strong acid and base

Hazardous Decomposition Products : CO, CO<sub>2</sub>

---

**SECTION 11 TOXICOLOGICAL INFORMATION**

Acute toxicity : LD/LC50 values that are relevant for classification

[1-ethoxypropan-2-ol]			
Oral-rat	LD50	>5,000mg/kg	
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Dermal-rabbit	LD50	9ml/kg	
[(2-methoxymethylethoxy)propanol]			
Oral-rat	LD50	5,180mg/kg	
Inhalation-rat	LC50	>500ppm/7H	
Dermal-rabbit	LD50	9,500mg/kg	

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**SECTION 12 ECOLOGICAL INFORMATION**

General notes : Do not allow product to reach ground water, water course or sewage system.

Ecotoxicity : No data available

Bioaccumulation : No data available

Other Adverse Effects : No data available

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**SECTION 13 DISPOSAL CONSIDERATION**

Disposal must be made according to official regulations.

Comply with all Federal, State, and Local regulations regarding disposal.

**Do not allow product to reach ground, any water course or sewage system.**

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**SECTION 14 TRANSPORT INFORMATION**

UN Number : 1210

UN Shipping Name : Printing ink

UN Classification : 3

UN Packing Group :

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**SECTION 15 REGULATORY INFORMATION**

< EU Information >

Symbol : None

[1-ethoxypropan-2-ol]

R-Phrase : R10 : Flammable.

R67 : Vapours may cause drowsiness and dizziness.

S-Phrase : S2 : Keep out of the reach of children.

S24 : Avoid contact with skin.

< USA Information >

TSCA STATUS : All components on TSCA INVENTORY.  
OSHA Regulations ( 29 CFR 1910 Occupational Safety and Health Standards )  
: Combustible liquid  
Hazardous Substances (OSHA,ACGIH listed)  
Superfund Amendments and Reauthorization Act of 1986(SARA) TITLE ,Section313  
: Not listed  
TSCA Hazard Communication Program (40 CFR 721.72) (SNUR)  
: Not listed  
California Proposition 65 (Chemicals known to cause cancer)  
: Not listed

Refer to any other federal , state , EU , national and local regulations.

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**SECTION 16 OTHER INFORMATION**



EU RoHS Directive(2002/95/EC) and ELV Directive(2000/53/EC)  
This product not contain lead,mercury, cadmium, hexavalent chromium,  
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