



(H226)

(H319)

(H335)

(H336)

(P271)

(P264)

Issued Date : Dec. 19th, 2008 Revised Date : Jan. 18th, 2019

SECTION 1	CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
Product Name	: TAT INDELIBLE STAMP PAD Multipurpose Colour : (Black)
	ATGN-2, ATGN-3, ATGN-4
	ATGN-2-K(Medium), ATGN-3-K(Large), ATGN-4-K(Extra large)
	TAT INDELIBLE INK Multipurpose
	STG, STG-1 (Small bottle), STG-3(Large bottle)
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
Contact (e-mail)	: <u>chem-analysis@ngy.shachihata.co.jp</u>
Emergency Call	: + 81- 52- 521- 3600 (Shachihata Inc. [Japan])
Recommended us	e : Stamp ink

SECTION 2

HAZARDS IDENTIFICATION

GHS Classification

Physical Hazards

Flammable liquids

Health Hazards

Eye irritation Specific target organ toxicity ; single exposure Carcinogenicity

Environmental Hazards

Hazardous to the aquatic environment (acute) Hazardous to the aquatic environment (chronic) Hazardous to the ozone layer

LABEL ELEMENTS

Symbols



Signal word : Warning

Hazard statement

Warning

ru statement

:	Flammable liquid and vapour
	Causes serious eye irritation

May cause respiratory irritation

May cause drowsiness or dizziness

Precautionary statement

[Prevention]

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	(P210)
Take action to prevent static discharges.	(P243)
Wear eye protection.	(P280)
Avoid breathing vapours.	(P261)

Use only outdoors or in a well-ventilated area.

Wash hands thoroughly after handling.

Category 3

Category 2A Category 3 (respiratory tract irritation, narcotic effects) Classification not possible

Classification not possible Classification not possible Classification not possible [ISO11014:2009][Shachihata Inc.] [STG_black_m] 2/30

[Response]	
In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish.	(P370+P378)
IF INHALED : Remove person to fresh air and keep comfortable for breathing.	(P304+P340)
Call a POISON CENTER or physician if you feel unwell.	(P312)
IF IN EYES : Rinse cautiously with water for several minutes.	(P305+P351+P338
Remove contact lenses, if present and easy to do. Continue rinsing.	
If eye irritation persists : Get medical advice and attention.	(P337+P313)
IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water.	(P303+P361+P353
If skin irritation occurs : Get medical advice and attention.	(P332+P313)
IF SWALLOWED : Get medical advice if you feel unwell. Rinse mouth.	(P301+P314+P330
[Storage]	
Store in a well-ventilated place. Keep container tightly closed.	(P403+P233)
[Disposal]	
Dispose of contents and container in accordance with local regulations.	(P501)

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Ingredients

Chemical Name /	Composition	CAS	Hazard Class	Hazard statement
Generic name	weight %	Registry No.	(category)	
1-ethoxypropan-2-ol	20 ~ 30	1569-02-4	Flam. Liq. 3 Eye Irrit. 2A STOT. SE. 3	H226 H319 H336
(2-methoxymethylethoxy)propanol	50 ~ 60	34590-94-8	Flam. Liq. 4 STOT. SE. 3	H227 H335
Synthetic resin	10 ~ 20	Confidential	none	none
Carbon black	1 ~ 10	1333-86-4	none	none
total	100			

SECTION 4FIRST-AID MEASURESIF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Consult a doctor if symptoms persist.IF ON SKIN: Remove / Take off immediately all contaminated clothing. Wash with soap and water.
If skin irritation/rash occurs or feel unwell, consult a doctor for medical advice.IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and
easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.IF SWALLOWED: After rinse mouth immediately, give about 250 ml of water or milk and thin in the stomach,
and do not vomit forcibly. Moreover, do not give anything from the mouth to the patient
when not conscious. Receive the doctor's treatment (stomach pump) promptly.

SECTION 5 FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA : Dry

EDIA : Dry chemical powder, foam or carbon dioxide

UNSUITABLE EXTINGUISHING MEDIA

G MEDIA : Water jet

SPECIFIC EXTINCTION METHOD

For initial stage extinction, carbon dioxide or dry chemical powder.

When a fire extends, fire is extinguished by a large amount of water spray.

Do not discharge extinguishing waters into the aquatic environment.

SPECIAL PROTECTIVE FOR FIRE- FIGHTERS

In the extinction work, an appropriate protective equipment (gloves, glasses, and mask) has to be worn. Because during a fire, hazardous gases may be generated, fire-fighters have to wear self-contained breathing apparatus and other protective equipment.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Evacuate personnel to safe area. Shut off all sources of ignition.

No Flares, smoking or flame in area. Put on protective equipment. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS

Do not throw the leakage thing directly into environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

In case of a small spill, remove by absorbing with absorbents (sawdust, soil, sand, waste cloth, etc.), and then wipe off the waste well with waste cloth, and rag.

In case of large spills, prevent leakage by enclosing with nonflammables (earth and sand, etc.)

and collect into empty container by scoop, suction equipment or the like.

SECONDARY ACCIDENT PREVENTION MEASURE

All ignition sources should be quickly removed. (No smoking in vicinity, prohibit sparks or fire sources.)

SECTION 7 F	IANDLING AND	STORAGE
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Handling: Use with adequate ventilation.
Avoid contact with skin, eyes and clothing.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not eat, drink or smoke when using this product.

Storage: Keep containers tightly closed and store in a cool and dry place.
Keep away from heat and flame, ignition source and sunlight.
Keep out of the reach of children.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMIT

ACGIH (2018)					
(2-methoxymethyletho	xy)propanol	TWA	100 ppm		
Carbon black	571	TWA	3 mg/m ³		
OSHA PEL					
(2-methoxymethyletho	xy)propanol	TWA	100 ppm		
Carbon black		TWA	3.5 mg/m ³		
DIRECTIVE 2000/39/EC					
(2-methoxymethyletho	xy)propanol	TWA	50 ppm		
Japan Society for Occupa	ational Health (201	18)			
Carbon black Dus	sts Class 2	OEL (total dust)	4 mg/m ³		
PERSONAL PROTECTION					
Respiratory Protection	Respiratory Protection : Use with local exhaust ventilation, when in long use.				
	Avoid breathing	g vapours. Wear	mask to prevent organic gas, if necessary.		
Hand Protection : Avoid contact with hands. Wear safety gloves, if necessary.					
Eye Protection : Avoid contact with eyes. Wear safety glasses, if necessary.					
Skin Protection	: Avoid skin cont	act. Wear persor	nal protection apron, boots, if necessary.		

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: black liquid
Odour	: minor solvent odour
рН	: Not applicable
Boiling point	:132~189 °C
Flash point	: 53 °C (closed cup)
Relative Density (at 25°C)	: 1.0 ~ 1.1 (g/cm ³)
Solubility in Water	: Insoluble

SECTION 10 STABILITY AND	REACTIVITY
Stability	Stable under normal handling.
Conditions to Avoid	: High temperature, Direct sunlight, Fire
Incompatible Materials	: Strong oxidising agents
Hazardous Decomposition Products	: CO, CO ₂
SECTION 11 TOXICOLOGICA	L INFORMATION

Acute toxicity	e toxicity : LD/LC50 values that are relevant for classification [1-ethoxypropan-2-ol]		
			>5,000 mg/kg
	Dermal-rabb	it LD50	>5,000 mg/kg
	[(2-methoxymet	thylethoxy)prop	anol]
	Oral-rat	LD50	>5,000 mg/kg
	Dermal-rabb	it LD50	>5,000 mg/kg
Eye irritation	: Category 2A	Causes seriou	us eye irritation
Specific target organ toxicity (single exposure)	: Category 3 May cause respiratory irritation May cause drowsiness or dizziness		
Carcinogenicity	Carbon black has been classified by the IARC as Group 2B. Other materials ; Not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.		

Regarding the carcinogenicity of carbon black, International Agency for Research on Cancer (IARC) has classified as a group 2B. However, ACGIH (American Conference of Governmental Industrial Hygienists), EPA (Environmental Protection Agency), EU (European Chemicals Agency), NTP (National Toxicology Program, USA) in the classification of suspected carcinogenic to humans has not been done. Therefore, as the ink product we could not classify the carcinogenicity of GHS from that there is no sufficient data.

SECTION 12 ECOLOGICAL INFORMATION

Hazardous to the aquatic environment (acute)	Classification not possible
Hazardous to the aquatic environment (chronic)	: Classification not possible
Hazardous to the ozone layer	: Classification not possible

SECTION 13 DISPOSAL CONSIDERATIONS

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 UN proper shipping name UN Classification	(DOT, ADR, IMDG, IATA) (DOT, ADR, IMDG, IATA)	:UN1210 : PRINTING INK, flammable : 3	
Packing group Marine pollutant (Y/N)	(DOT, ADR, IMDG, IATA)	-	3
EmS number		: F-E,S-D	

SECTION 15 REGULATORY INFORMATION

< EU Information > Regulation (EC) No 1272/2008 (CLP) Substance name : [1-ethoxypropan-2-ol] Hazard Class & Category : Flammable liquids, Category 3 Specific target organ toxicity - single exposure, Category 3 Symbols : GHS02,GHS07 Signal word : Warning Hazard statements : H226 Flammable liquid and vapour

< USA Information >

OSHA STATUS : This product is hazardous under 29 CFR 1910.1200. TSCA STATUS : All components on TSCA INVENTORY. TSCA Hazard Communication Program (40 CFR Part 721) (SNUR) : Not Applicable CERCLA REPORTABLE QUANTITY (40 CFR 117,302) SARA TITLE II Section 313 (40 CFR 372) California Proposition 65

- : Not Applicable
- Not Applicable
- : Carbon black

(airborne, unbound particles of respirable size)

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

SECTION 16 OTHER INFORMATION



This data sheet may not be enough when evaluating danger or hazard. The above information, which is created from currently available documents, information and data, may be revised when new findings announced. This document has been written on the assumption that when dealing with a large amount of ink on the business case and emergency. When handling as a normal product, please refer to the notes that is described in the produce or packaging. The information contained herein is not intended to provide any kind of warranty other than information, there is no guarantee for the accuracy of the content.





Issued Date : Dec. 19th, 2008 Revised Date : Jan. 18th, 2019

SECTION 1	CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
Product Name	:TAT INDELIBLE STAMP PAD Multipurpose Colour : (Red)
	ATGN-2, ATGN-3, ATGN-4
	ATGN-2-R(Medium), ATGN-3-R(Large), ATGN-4-R(Extra large)
	TAT INDELIBLE INK Multipurpose
	STG, STG-1(Small bottle), STG-3(Large bottle)
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
Contact (e-mail)	: <u>chem-analysis@ngy.shachihata.co.jp</u>
Emergency Call	: + 81- 52- 521- 3600 (Shachihata Inc. [Japan])
Recommended us	e : Stamp ink
SECTION 2	HAZARDS IDENTIFICATION
GHS Classification	
Physical Hazard	ls
Flammable liq	uids Category 3
Health Hazards	

Eye irritation Specific target organ toxicity ; single exposure

Environmental Hazards

Hazardous to the aquatic environment (acute) Hazardous to the aquatic environment (chronic) Hazardous to the ozone layer

LABEL ELEMENTS

Symbols



Signal word	: Warning	
Hazard statement	: Flammable liquid and vapour	(H226)
	Causes serious eye irritation	(H319)
	May cause respiratory irritation	(H335)
	May cause drowsiness or dizziness	(H336)

Precautionary statement

Prever	ntion

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	(P210)
Take action to prevent static discharges.	(P243)
Wear eye protection.	(P280)
Avoid breathing vapours.	(P261)
Use only outdoors or in a well-ventilated area.	(P271)
Wash hands thoroughly after handling.	(P264)

Category 2A Category 3 (respiratory tract irritation, narcotic effects)

Classification not possible Classification not possible Classification not possible [ISO11014:2009] [Shachihata Inc.] [STG_red_m] 7/30

[Response]	
In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish.	(P370+P378)
IF INHALED : Remove person to fresh air and keep comfortable for breathing.	(P304+P340)
Call a POISON CENTER or physician if you feel unwell.	(P312)
IF IN EYES : Rinse cautiously with water for several minutes.	(P305+P351+P338
Remove contact lenses, if present and easy to do. Continue rinsing.	
If eye irritation persists : Get medical advice and attention.	(P337+P313)
IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water.	(P303+P361+P353
If skin irritation occurs : Get medical advice and attention.	(P332+P313)
IF SWALLOWED : Get medical advice if you feel unwell. Rinse mouth.	(P301+P314+P330
[Storage]	
Store in a well-ventilated place. Keep container tightly closed.	(P403+P233)
[Disposal]	
Dispose of contents and container in accordance with local regulations.	(P501)

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Ingredients

Chemical Name /	Composition	CAS	Hazard Class	Hazard statement
Generic name	weight %	Registry No.	(category)	
1-ethoxypropan-2-ol	20 ~ 30	1569-02-4	Flam. Liq. 3 Eye Irrit. 2A STOT. SE. 3	H226 H319 H336
(2-methoxymethylethoxy)propanol	50 ~ 60	34590-94-8	Flam. Liq. 4 STOT. SE. 3	H227 H335
Synthetic resin	10 ~ 20	Confidential	none	none
Organic pigment	1 ~ 10	Confidential	none	none
total	100			

SECTION 4FIRST-AID MEASURESIF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Consult a doctor if symptoms persist.IF ON SKIN: Remove / Take off immediately all contaminated clothing. Wash with soap and water.
If skin irritation/rash occurs or feel unwell, consult a doctor for medical advice.IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and
easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.IF SWALLOWED: After rinse mouth immediately, give about 250 ml of water or milk and thin in the stomach,
and do not vomit forcibly. Moreover, do not give anything from the mouth to the patient
when not conscious. Receive the doctor's treatment (stomach pump) promptly.

SECTION 5 FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA : Drv che

IEDIA : Dry chemical powder, foam or carbon dioxide

UNSUITABLE EXTINGUISHING MEDIA

DIA : Water jet

SPECIFIC EXTINCTION METHOD

For initial stage extinction, carbon dioxide or dry chemical powder.

When a fire extends, fire is extinguished by a large amount of water spray.

Do not discharge extinguishing waters into the aquatic environment.

SPECIAL PROTECTIVE FOR FIRE- FIGHTERS

In the extinction work, an appropriate protective equipment (gloves, glasses, and mask) has to be worn. Because during a fire, hazardous gases may be generated, fire-fighters have to wear self-contained breathing apparatus and other protective equipment.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Evacuate personnel to safe area. Shut off all sources of ignition.

No Flares, smoking or flame in area. Put on protective equipment. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS

Do not throw the leakage thing directly into environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

In case of a small spill, remove by absorbing with absorbents (sawdust, soil, sand, waste cloth, etc.), and then wipe off the waste well with waste cloth, and rag.

In case of large spills, prevent leakage by enclosing with nonflammables (earth and sand, etc.)

and collect into empty container by scoop, suction equipment or the like.

SECONDARY ACCIDENT PREVENTION MEASURE

All ignition sources should be quickly removed. (No smoking in vicinity, prohibit sparks or fire sources.)

SECTION 7	HANDLING AND STORAGE
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Handling: Use with adequate ventilation.
Avoid contact with skin, eyes and clothing.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not eat, drink or smoke when using this product.

Storage : Keep containers tightly closed and store in a cool and dry place. Keep away from heat and flame, ignition source and sunlight. Keep out of the reach of children.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMIT

ACGIH (2018) (2-methoxymethylethoxy)propanol	TWA	100 ppm
OSHA PEL (2-methoxymethylethoxy)propanol	TWA	100 ppm
DIRECTIVE 2000/39/EC (2-methoxymethylethoxy)propanol	TWA	50 ppm
Japan Society for Occupational Health (2018)	Not listed	

Japan Society for Occupational Health (2018) Not listed

PERSONAL PROTECTION

Respiratory Protection	: Use with local exhaust ventilation, when in long use.		
	Avoid breathing vapours. Wear mask to prevent organic gas, if necessary.		
Hand Protection	: Avoid contact with hands. Wear safety gloves, if necessary.		
Eye Protection	: Avoid contact with eyes. Wear safety glasses, if necessary.		
Skin Protection	: Avoid skin contact. Wear personal protection apron, boots, if necessary.		

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

: red liquid
: minor solvent odour
: Not applicable
: 132 ~ 189 °C
: 53 °C (closed cup)
\therefore 1.0 ~ 1.1 (g/cm ³)
: Insoluble

SECTION 10 STABILITY AND	REACTIVITY
Stability	Stable under normal handling.
Conditions to Avoid	: High temperature, Direct sunlight, Fire
Incompatible Materials	: Strong oxidising agents
Hazardous Decomposition Products	: CO, CO ₂
SECTION 11 TOXICOLOGICA	LINFORMATION

Acute toxicity	: LD/LC50 values that are relevant for classification				
	[1-ethoxypropan-2-ol]				
	Oral-rat	LD50	>5,000 mg/kg		
	Dermal-rabb	oit LD50	>5,000 mg/kg		
	[(2-methoxymethylethoxy)propanol]				
	Oral-rat	LD50	>5,000 mg/kg		
	Dermal-rabb	oit LD50	>5,000 mg/kg		
Eye irritation	Category 2A	Causes serious	s eye irritation		
Specific target organ toxicity	: Category 3	May cause respiratory irritation			
(single exposure)		May cause drov	wsiness or dizziness		
Carcinogenicity	•	does not contain any component that is considered cinogen by IARC, ACGIH, EPA, EU or NTP.			

SECTION 12 ECOLOGICAL INFORMATION

Hazardous to the aquatic environment (acute)	: Classification not possible
Hazardous to the aquatic environment (chronic)	: Classification not possible
Hazardous to the ozone layer	: Classification not possible

SECTION 13 DISPOSAL CONSIDERATIONS

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	(DOT, ADR, IMDG, IATA)	: UN1210	
UN proper shipping name	(DOT, ADR, IMDG, IATA)	: PRINTING INK, flammable	
UN Classification		: 3	< ≌
Packing group	(DOT, ADR, IMDG, IATA)	: 11	3
Marine pollutant (Y/N)		: N	
EmS number		: F-E,S-D	

SECTION 15 REGULATORY INFORMATION

< EU Information > Regulation (EC) No 1272/2008 (CLP) Substance name : [1-ethoxypropan-2-ol] : Flammable liquids, Category 3 Hazard Class & Category Specific target organ toxicity - single exposure, Category 3 Symbols : GHS02,GHS07 Signal word : Warning Hazard statements : H226 Flammable liquid and vapour H336 May cause drowsiness or dizziness

< USA Information >

OSHA STATUS : This product is hazardous under 29 CFR 1910.1200. TSCA STATUS : All components on TSCA INVENTORY.

TSCA Hazard Communication Program (40 CFR Part 721) (SNUR)

CERCLA REPORTABLE QUANTITY (40 CFR 117,302)

SARA TITLE III Section 313 (40 CFR 372)

California Proposition 65

- : Not Applicable
- : Not Applicable
- : Not Applicable
 - : Not listed

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

SECTION 16 OTHER INFORMATION



This data sheet may not be enough when evaluating danger or hazard. The above information, which is created from currently available documents, information and data, may be revised when new findings announced. This document has been written on the assumption that when dealing with a large amount of ink on the business case and emergency. When handling as a normal product, please refer to the notes that is described in the produce or packaging. The information contained herein is not intended to provide any kind of warranty other than information, there is no guarantee for the accuracy of the content.





Issued Date : Dec. 19th, 2008 Revised Date : Jan. 18th, 2019

SECTION 1	CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
Product Name	: TAT INDELIBLE STAMP PAD Multipurpose Colour : (Blue)
	ATGN-2, ATGN-3, ATGN-4
ATGN-2-B(Medium), ATGN-3-B(Large), ATGN-4-B(Extra large)	
	TAT INDELIBLE INK Multipurpose
	STG, STG-1 (Small bottle), STG-3(Large bottle)
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
Contact (e-mail)	: <u>chem-analysis@ngy.shachihata.co.jp</u>
Emergency Call	: + 81- 52- 521- 3600 (Shachihata Inc. [Japan])
Recommended us	e : Stamp ink
SECTION 2	HAZARDS IDENTIFICATION
GHS Classificatio Physical Hazar	

Health Hazards

Eye irritation Specific target organ toxicity ; single exposure

Environmental Hazards

Flammable liquids

Hazardous to the aquatic environment (acute) Hazardous to the aquatic environment (chronic) Hazardous to the ozone layer

LABEL ELEMENTS

Symbols



Signal word	: Warning	
Hazard statement	: Flammable liquid and vapour	(H226)
	Causes serious eye irritation	(H319)
	May cause respiratory irritation	(H335)
	May cause drowsiness or dizziness	(H336)

Precautionary statement

[Prevention]

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	
Take action to prevent static discharges.	
Wear eye protection.	(P280)
Avoid breathing vapours.	(P261)
Use only outdoors or in a well-ventilated area.	(P271)
Wash hands thoroughly after handling.	(P264)

Category 3

Category 2A Category 3 (respiratory tract irritation, narcotic effects)

Classification not possible Classification not possible Classification not possible [ISO11014:2009][Shachihata Inc.] [STG_blue_m] 12/30

[Response]	
In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish.	(P370+P378)
IF INHALED : Remove person to fresh air and keep comfortable for breathing.	(P304+P340)
Call a POISON CENTER or physician if you feel unwell.	(P312)
IF IN EYES : Rinse cautiously with water for several minutes.	(P305+P351+P338
Remove contact lenses, if present and easy to do. Continue rinsing.	
If eye irritation persists : Get medical advice and attention.	(P337+P313)
IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water.	(P303+P361+P353
If skin irritation occurs : Get medical advice and attention.	(P332+P313)
IF SWALLOWED : Get medical advice if you feel unwell. Rinse mouth.	(P301+P314+P330
[Storage]	
Store in a well-ventilated place. Keep container tightly closed.	(P403+P233)
[Disposal]	
Dispose of contents and container in accordance with local regulations.	(P501)

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

:

Ingredients

Chemical Name /	Composition	CAS	Hazard Class	Hazard statement
Generic name	weight %	Registry No.	(category)	
1-ethoxypropan-2-ol	20 ~ 30	1569-02-4	Flam. Liq. 3 Eye Irrit. 2A STOT. SE. 3	H226 H319 H336
(2-methoxymethylethoxy)propanol	50 ~ 60	34590-94-8	Flam. Liq. 4 STOT. SE. 3	H227 H335
Synthetic resin	10 ~ 20	Confidential	none	none
Organic pigment	1 ~ 10	Confidential	none	none
total	100			

SECTION 4	FIRST-AID MEASURES
IF INHALED	 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Consult a doctor if symptoms persist.
IF ON SKIN	 Remove / Take off immediately all contaminated clothing. Wash with soap and water. If skin irritation/rash occurs or feel unwell, consult a doctor for medical advice.
IF IN EYES	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
IF SWALLOWED	: After rinse mouth immediately, give about 250 ml of water or milk and thin in the stomach, and do not vomit forcibly. Moreover, do not give anything from the mouth to the patient when not conscious. Receive the doctor's treatment (stomach pump) promptly.

SECTION 5 FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA : Dry chemical powder, foam or carbon dioxide

UNSUITABLE EXTINGUISHING MEDIA

: Water jet

SPECIFIC EXTINCTION METHOD

For initial stage extinction, carbon dioxide or dry chemical powder.

When a fire extends, fire is extinguished by a large amount of water spray.

Do not discharge extinguishing waters into the aquatic environment.

SPECIAL PROTECTIVE FOR FIRE- FIGHTERS

In the extinction work, an appropriate protective equipment (gloves, glasses, and mask) has to be worn. Because during a fire, hazardous gases may be generated, fire-fighters have to wear self-contained breathing apparatus and other protective equipment.

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PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Evacuate personnel to safe area. Shut off all sources of ignition.

No Flares, smoking or flame in area. Put on protective equipment. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS

Do not throw the leakage thing directly into environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

In case of a small spill, remove by absorbing with absorbents (sawdust, soil, sand, waste cloth, etc.), and then wipe off the waste well with waste cloth, and rag.

In case of large spills, prevent leakage by enclosing with nonflammables (earth and sand, etc.)

and collect into empty container by scoop, suction equipment or the like.

SECONDARY ACCIDENT PREVENTION MEASURE

All ignition sources should be quickly removed. (No smoking in vicinity, prohibit sparks or fire sources.)

SECTION 7	HANDLING AND STORAGE
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Handling: Use with adequate ventilation.
Avoid contact with skin, eyes and clothing.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not eat, drink or smoke when using this product.

Storage: Keep containers tightly closed and store in a cool and dry place.
Keep away from heat and flame, ignition source and sunlight.
Keep out of the reach of children.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMIT

ACGIH (2018) (2-methoxymethylethoxy)propanol	TWA	100 ppm
OSHA PEL (2-methoxymethylethoxy)propanol	TWA	100 ppm
DIRECTIVE 2000/39/EC (2-methoxymethylethoxy)propanol	TWA	50 ppm
Japan Society for Occupational Health (2019)	Not listed	

Japan Society for Occupational Health (2018) Not listed

PERSONAL PROTECTION

Respiratory Protection	: Use with local exhaust ventilation, when in long use.	
	Avoid breathing vapours. Wear mask to prevent organic gas, if necessary.	
Hand Protection	: Avoid contact with hands. Wear safety gloves, if necessary.	
Eye Protection	: Avoid contact with eyes. Wear safety glasses, if necessary.	
Skin Protection	: Avoid skin contact. Wear personal protection apron, boots, if necessary.	

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: blue liquid
Odour	: minor solvent odour
рН	: Not applicable
Boiling point	:132~189 °C
Flash point	:53 °C (closed cup)
Relative Density (at 25°C)	[:] 1.0 ~ 1.1 (g/cm ³)
Solubility in Water	: Insoluble

SECTION 10 STABILITY AND	REACTIVITY
Stability	: Stable under normal handling.
Conditions to Avoid	: High temperature, Direct sunlight, Fire
Incompatible Materials	: Strong oxidising agents
Hazardous Decomposition Products	: CO, CO ₂
SECTION 11 TOXICOLOGICA	LINFORMATION

Acute toxicity	: LD/LC50 values that are relevant for classification		
	[1-ethoxypropa	an-2-ol]	
	Oral-rat	LD50	>5,000 mg/kg
	Dermal-rab	bit LD50	>5,000 mg/kg
	[(2-methoxyme	ethylethoxy)propa	nol]
	Oral-rat	LD50	>5,000 mg/kg
	Dermal-rabb	bit LD50	>5,000 mg/kg
Eye irritation	Category 2A	Causes serious	s eye irritation
Specific target organ toxicity	: Category 3	May cause res	piratory irritation
(single exposure)		May cause dro	wsiness or dizziness
Carcinogenicity	•		ny component that is considered ACGIH, EPA, EU or NTP.

SECTION 12 ECOLOGICAL INFORMATION

Hazardous to the aquatic environment (acute)	: Classification not possible
Hazardous to the aquatic environment (chronic)	: Classification not possible
Hazardous to the ozone layer	: Classification not possible

SECTION 13 DISPOSAL CONSIDERATIONS

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	(DOT, ADR, IMDG, IATA)	: UN1210	
UN proper shipping name	(DOT, ADR, IMDG, IATA)	: PRINTING INK, flammable	
UN Classification		: 3	- < ¹²
Packing group	(DOT, ADR, IMDG, IATA)	: 11	3
Marine pollutant (Y/N)		: N	
EmS number		: F-E,S-D	

SECTION 15 REGULATORY INFORMATION

< EU Information > Regulation (EC) No 1272/2008 (CLP) Substance name : [1-ethoxypropan-2-ol] : Flammable liquids, Category 3 Hazard Class & Category Specific target organ toxicity - single exposure, Category 3 Symbols : GHS02,GHS07 Signal word : Warning Hazard statements : H226 Flammable liquid and vapour H336 May cause drowsiness or dizziness

< USA Information >

OSHA STATUS : This product is hazardous under 29 CFR 1910.1200. TSCA STATUS : All components on TSCA INVENTORY.

TSCA Hazard Communication Program (40 CFR Part 721) (SNUR)

CERCLA REPORTABLE QUANTITY (40 CFR 117,302)

SARA TITLE III Section 313 (40 CFR 372)

California Proposition 65

- : Not Applicable
- : Not Applicable
- : Not Applicable
 - : Not listed

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

SECTION 16 OTHER INFORMATION



This data sheet may not be enough when evaluating danger or hazard. The above information, which is created from currently available documents, information and data, may be revised when new findings announced. This document has been written on the assumption that when dealing with a large amount of ink on the business case and emergency. When handling as a normal product, please refer to the notes that is described in the produce or packaging. The information contained herein is not intended to provide any kind of warranty other than information, there is no guarantee for the accuracy of the content.





Issued Date : Dec. 19th, 2008 Revised Date : Jan. 18th, 2019

SECTION 1	CHEMICAL PRODUCT AND COMPANY IDENTIFICATION
Product Name	: TAT INDELIBLE STAMP PAD Multipurpose Colour : (Green)
	ATGN-2, ATGN-3, ATGN-4
	ATGN-2-G(Medium), ATGN-3-G(Large), ATGN-4-G(Extra large)
	TAT INDELIBLE INK Multipurpose
	STG, STG-1 (Small bottle), STG-3 (Large bottle)
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
Contact (e-mail)	: <u>chem-analysis@ngy.shachihata.co.jp</u>
Emergency Call	: + 81- 52- 521- 3600 (Shachihata Inc. [Japan])
Recommended us	se : Stamp ink
SECTION 2	HAZARDS IDENTIFICATION
GHS Classificatio Physical Hazar	
Flammable li	quids Category 3
Health Hazards Eye irritation Specific targe	Category 2A et organ toxicity ; single exposure Category 3 (respiratory tract irritation, narcotic effects)

Environmental Hazards

Hazardous to the aquatic environment (acute) Hazardous to the aquatic environment (chronic) Hazardous to the ozone layer

:

LABEL ELEMENTS

Symbols



Signal word	: Warning	
Hazard statement	: Flammable liquid and vapour	(H226)
	Causes serious eye irritation	(H319)
	May cause respiratory irritation	(H335)
	May cause drowsiness or dizziness	(H336)

Precautionary statement

[Prevention]

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	(P210)
Take action to prevent static discharges.	(P243)
Wear eye protection.	(P280)
Avoid breathing vapours.	(P261)
Use only outdoors or in a well-ventilated area.	(P271)
Wash hands thoroughly after handling.	(P264)

Classification not possible Classification not possible Classification not possible

[ISO11014:2009] [Shachihata Inc.] [STG_green_m] 17/30

[Response]	
In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish.	(P370+P378)
IF INHALED : Remove person to fresh air and keep comfortable for breathing.	(P304+P340)
Call a POISON CENTER or physician if you feel unwell.	(P312)
IF IN EYES : Rinse cautiously with water for several minutes.	(P305+P351+P338
Remove contact lenses, if present and easy to do. Continue rinsing.	
If eye irritation persists : Get medical advice and attention.	(P337+P313)
IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water.	(P303+P361+P353
If skin irritation occurs : Get medical advice and attention.	(P332+P313)
IF SWALLOWED : Get medical advice if you feel unwell. Rinse mouth.	(P301+P314+P330
[Storage]	
Store in a well-ventilated place. Keep container tightly closed.	(P403+P233)
[Disposal]	
Dispose of contents and container in accordance with local regulations.	(P501)

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

:

Ingredients

Chemical Name /	Composition	CAS	Hazard Class	Hazard statement
Generic name	weight %	Registry No.	(category)	
1-ethoxypropan-2-ol	20 ~ 30	1569-02-4	Flam. Liq. 3 Eye Irrit. 2A STOT. SE. 3	H226 H319 H336
(2-methoxymethylethoxy)propanol	50 ~ 60	34590-94-8	Flam. Liq. 4 STOT. SE. 3	H227 H335
Synthetic resin	10 ~ 20	Confidential	none	none
Organic pigment	1 ~ 10	Confidential	none	none
total	100			

SECTION 4	FIRST-AID MEASURES
IF INHALED	 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Consult a doctor if symptoms persist.
IF ON SKIN	 Remove / Take off immediately all contaminated clothing. Wash with soap and water. If skin irritation/rash occurs or feel unwell, consult a doctor for medical advice.
IF IN EYES	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
IF SWALLOWED	: After rinse mouth immediately, give about 250 ml of water or milk and thin in the stomach, and do not vomit forcibly. Moreover, do not give anything from the mouth to the patient when not conscious. Receive the doctor's treatment (stomach pump) promptly.

SECTION 5 FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA : Dry chemical powder, foam or carbon dioxide

UNSUITABLE EXTINGUISHING MEDIA

: Water jet

SPECIFIC EXTINCTION METHOD

For initial stage extinction, carbon dioxide or dry chemical powder.

When a fire extends, fire is extinguished by a large amount of water spray.

Do not discharge extinguishing waters into the aquatic environment.

SPECIAL PROTECTIVE FOR FIRE- FIGHTERS

In the extinction work, an appropriate protective equipment (gloves, glasses, and mask) has to be worn. Because during a fire, hazardous gases may be generated, fire-fighters have to wear self-contained breathing apparatus and other protective equipment.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Evacuate personnel to safe area. Shut off all sources of ignition.

No Flares, smoking or flame in area. Put on protective equipment. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS

Do not throw the leakage thing directly into environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

In case of a small spill, remove by absorbing with absorbents (sawdust, soil, sand, waste cloth, etc.), and then wipe off the waste well with waste cloth, and rag.

In case of large spills, prevent leakage by enclosing with nonflammables (earth and sand, etc.)

and collect into empty container by scoop, suction equipment or the like.

SECONDARY ACCIDENT PREVENTION MEASURE

All ignition sources should be quickly removed. (No smoking in vicinity, prohibit sparks or fire sources.)

SECTION 7	HANDLING AND STORAGE
-----------	----------------------

Handling: Use with adequate ventilation.
Avoid contact with skin, eyes and clothing.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not eat, drink or smoke when using this product.

Storage : Keep containers tightly closed and store in a cool and dry place. Keep away from heat and flame, ignition source and sunlight. Keep out of the reach of children.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMIT

ACGIH (2018) (2-methoxymethylethoxy)propanol	TWA	100 ppm
OSHA PEL (2-methoxymethylethoxy)propanol	TWA	100 ppm
DIRECTIVE 2000/39/EC (2-methoxymethylethoxy)propanol	TWA	50 ppm
Japan Society for Occupational Health (2018)	Not listed	

Japan Society for Occupational Health (2018) Not listed

PERSONAL PROTECTION

Respiratory Protection	: Use with local exhaust ventilation, when in long use.
	Avoid breathing vapours. Wear mask to prevent organic gas, if necessary.
Hand Protection	: Avoid contact with hands. Wear safety gloves, if necessary.
Eye Protection	: Avoid contact with eyes. Wear safety glasses, if necessary.
Skin Protection	: Avoid skin contact. Wear personal protection apron, boots, if necessary.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: green liquid		
Odour	: minor solvent odour		
рН	: Not applicable		
Boiling point	:132~189 °C		
Flash point	: 53 °C (closed cup)		
Relative Density (at 25°C)	[:] 1.0 ~ 1.1 (g/cm ³)		
Solubility in Water	: Insoluble		

SECTION 10 STABILITY AND	REACTIVITY
Stability	Stable under normal handling.
Conditions to Avoid	: High temperature, Direct sunlight, Fire
Incompatible Materials	: Strong oxidising agents
Hazardous Decomposition Products	: CO, CO ₂
SECTION 11 TOXICOLOGICA	LINFORMATION

Acute toxicity	: LD/LC50 value	es that are	relevant	for classification
	[1-ethoxypropa	an-2-ol]		
	Oral-rat	LD	50	>5,000 mg/kg
	Dermal-rabl	bit LD	50	>5,000 mg/kg
	[(2-methoxyme	ethylethoxy)propan	ol]
	Oral-rat	LD	50	>5,000 mg/kg
	Dermal-rabl	bit LD	50	>5,000 mg/kg
Eye irritation	Category 2A	Causes	serious	eye irritation
Specific target organ toxicity	: Category 3	May cau	ise resp	iratory irritation
(single exposure)		May cau	ise drow	vsiness or dizziness
Carcinogenicity	•			y component that is considered CGIH, EPA, EU or NTP.
		0)	,	

SECTION 12 ECOLOGICAL INFORMATION

Hazardous to the aquatic environment (acute)	: Classification not possible
Hazardous to the aquatic environment (chronic)	: Classification not possible
Hazardous to the ozone layer	Classification not possible

SECTION 13 DISPOSAL CONSIDERATIONS

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	(DOT, ADR, IMDG, IATA)	: UN1210	
UN proper shipping name	(DOT, ADR, IMDG, IATA)	: PRINTING INK, flammable	
UN Classification		: 3	
Packing group	(DOT, ADR, IMDG, IATA)	: 11	3
Marine pollutant (Y/N)		: N	
EmS number		: F-E,S-D	

SECTION 15 REGULATORY INFORMATION

< EU Information > Regulation (EC) No 1272/2008 (CLP) Substance name : [1-ethoxypropan-2-ol] : Flammable liquids, Category 3 Hazard Class & Category Specific target organ toxicity - single exposure, Category 3 Symbols : GHS02,GHS07 Signal word : Warning Hazard statements : H226 Flammable liquid and vapour H336 May cause drowsiness or dizziness

< USA Information >

OSHA STATUS : This product is hazardous under 29 CFR 1910.1200. TSCA STATUS : All components on TSCA INVENTORY.

TSCA Hazard Communication Program (40 CFR Part 721) (SNUR)

CERCLA REPORTABLE QUANTITY (40 CFR 117,302)

SARA TITLE III Section 313 (40 CFR 372)

California Proposition 65

- : Not Applicable
- : Not Applicable
- : Not Applicable
 - : Not listed

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

SECTION 16 OTHER INFORMATION



This data sheet may not be enough when evaluating danger or hazard. The above information, which is created from currently available documents, information and data, may be revised when new findings announced. This document has been written on the assumption that when dealing with a large amount of ink on the business case and emergency. When handling as a normal product, please refer to the notes that is described in the produce or packaging. The information contained herein is not intended to provide any kind of warranty other than information, there is no guarantee for the accuracy of the content.





Issued Date : Dec. 19th, 2008 Revised Date : Jan. 18th, 2019

SECTION 1	CHEMICAL PRODUCT AND	COMPANY IDENTIFICATION
Product Name	: TAT INDELIBLE STAMP PAG	D Multipurpose Colour : (Purple)
	ATGN-2, ATGN-3, ATGN-4	4
	ATGN-2-V(Medium), ATGN-3-V(Larg	ge), ATGN-4-V(Extra large)
	TAT INDELIBLE INK Multipu	rpose
	STG, STG-1(Small bottle), STG	-3(Large bottle)
Company Name	: Shachihata Inc.	a sta mile
Address	: 4-69,Amazuka-cho,Nishi-ku,N	lagoya City,451-0021,Japan
Telephone	: + 81- 52- 521- 3600	1000 m
Fax	: + 81- 52- 521- 3899	
Contact (e-mail)	: <u>chem-analysis@ngy.shachiha</u>	<u>ata.co.jp</u>
Emergency Call	:+ 81- 52- 521- 3600 (Shach	nihata Inc. [Japan])
Recommended u	se : Stamp ink	
SECTION 2	HAZARDS IDENTIFICATIO	V
SECTION 2 GHS Classification		V
	on	V
GHS Classification	on rds	Category 3
GHS Classification Physical Haza	on rds quids	
GHS Classification Physical Hazar Flammable li	on rds quids s	
GHS Classification Physical Hazar Flammable li Health Hazard Eye irritation	on rds quids s	Category 3
GHS Classification Physical Hazar Flammable li Health Hazard Eye irritation	on rds quids s et organ toxicity ; single exposure	Category 3 Category 2A
GHS Classification Physical Hazar Flammable li Health Hazard Eye irritation Specific targ Environmental	on rds quids s et organ toxicity ; single exposure	Category 3 Category 2A
GHS Classification Physical Hazar Flammable li Health Hazard Eye irritation Specific targ Environmental Hazardous to	on rds quids s et organ toxicity ; single exposure Hazards	Category 3 Category 2A Category 3 (respiratory tract irritation, narcotic effects)
GHS Classification Physical Hazar Flammable li Health Hazard Eye irritation Specific targ Environmental Hazardous to Hazardous to	on rds quids s et organ toxicity ; single exposure Hazards o the aquatic environment (acute)	Category 3 Category 2A Category 3 (respiratory tract irritation, narcotic effects) Classification not possible

Symbols



:

Signal word	: Warning	
Hazard statement	: Flammable liquid and vapour	(H226)
	Causes serious eye irritation	(H319)
	May cause respiratory irritation	(H335)
	May cause drowsiness or dizziness	(H336)

Precautionary statement

[Prevention]	
Keen ower from	ha

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.	(P210)
Take action to prevent static discharges.	(P243)
Wear eye protection.	(P280)
Avoid breathing vapours.	(P261)
Use only outdoors or in a well-ventilated area.	(P271)
Wash hands thoroughly after handling.	(P264)

[ISO11014:2009] [Shachihata Inc.] [STG_purple_m] 22/30

[Response]	
In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish.	(P370+P378)
IF INHALED : Remove person to fresh air and keep comfortable for breathing.	(P304+P340)
Call a POISON CENTER or physician if you feel unwell.	(P312)
IF IN EYES : Rinse cautiously with water for several minutes.	(P305+P351+P338)
Remove contact lenses, if present and easy to do. Continue rinsing.	
If eye irritation persists : Get medical advice and attention.	(P337+P313)
IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water.	(P303+P361+P353)
If skin irritation occurs : Get medical advice and attention.	(P332+P313)
IF SWALLOWED : Get medical advice if you feel unwell. Rinse mouth.	(P301+P314+P330)
[Storage]	
Store in a well-ventilated place. Keep container tightly closed.	(P403+P233)
[Disposal]	
Dispose of contents and container in accordance with local regulations.	(P501)

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

:

Ingredients

Chemical Name /	Composition	CAS	Hazard Class	Hazard statement
Generic name	weight %	Registry No.	(category)	
1-ethoxypropan-2-ol	20 ~ 30	1569-02-4	Flam. Liq. 3 Eye Irrit. 2A STOT. SE. 3	H226 H319 H336
(2-methoxymethylethoxy)propanol	50 ~ 60	34590-94-8	Flam. Liq. 4 STOT. SE. 3	H227 H335
Synthetic resin	10 ~ 20	Confidential	none	none
Organic pigment	1 ~ 10	Confidential	none	none
total	100			

SECTION 4	FIRST-AID MEASURES
IF INHALED	 Remove victim to fresh air and keep at rest in a position comfortable for breathing. Consult a doctor if symptoms persist.
IF ON SKIN	 Remove / Take off immediately all contaminated clothing. Wash with soap and water. If skin irritation/rash occurs or feel unwell, consult a doctor for medical advice.
IF IN EYES	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
IF SWALLOWED	: After rinse mouth immediately, give about 250 ml of water or milk and thin in the stomach, and do not vomit forcibly. Moreover, do not give anything from the mouth to the patient when not conscious. Receive the doctor's treatment (stomach pump) promptly.

SECTION 5 FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA : Dry chemical powder, foam or carbon dioxide

UNSUITABLE EXTINGUISHING MEDIA

: Water jet

SPECIFIC EXTINCTION METHOD

For initial stage extinction, carbon dioxide or dry chemical powder.

When a fire extends, fire is extinguished by a large amount of water spray.

Do not discharge extinguishing waters into the aquatic environment.

SPECIAL PROTECTIVE FOR FIRE- FIGHTERS

In the extinction work, an appropriate protective equipment (gloves, glasses, and mask) has to be worn. Because during a fire, hazardous gases may be generated, fire-fighters have to wear self-contained breathing apparatus and other protective equipment.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Evacuate personnel to safe area. Shut off all sources of ignition.

No Flares, smoking or flame in area. Put on protective equipment. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS

Do not throw the leakage thing directly into environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

In case of a small spill, remove by absorbing with absorbents (sawdust, soil, sand, waste cloth, etc.), and then wipe off the waste well with waste cloth, and rag.

In case of large spills, prevent leakage by enclosing with nonflammables (earth and sand, etc.)

and collect into empty container by scoop, suction equipment or the like.

SECONDARY ACCIDENT PREVENTION MEASURE

All ignition sources should be quickly removed. (No smoking in vicinity, prohibit sparks or fire sources.)

- Handling: Use with adequate ventilation.
Avoid contact with skin, eyes and clothing.
Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Do not eat, drink or smoke when using this product.
- Storage: Keep containers tightly closed and store in a cool and dry place.
Keep away from heat and flame, ignition source and sunlight.
Keep out of the reach of children.

SECTION 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

OCCUPATIONAL EXPOSURE LIMIT

ACGIH (2018) (2-methoxymethylethoxy)propanol	TWA	100 ppm
OSHA PEL (2-methoxymethylethoxy)propanol	TWA	100 ppm
DIRECTIVE 2000/39/EC (2-methoxymethylethoxy)propanol	TWA	50 ppm
Japan Society for Occupational Health (2018)	Not listed	

Japan Society for Occupational Health (2018) Not listed

PERSONAL PROTECTION

Respiratory Protection	: Use with local exhaust ventilation, when in long use.
	Avoid breathing vapours. Wear mask to prevent organic gas, if necessary.
Hand Protection	: Avoid contact with hands. Wear safety gloves, if necessary.
Eye Protection	: Avoid contact with eyes. Wear safety glasses, if necessary.
Skin Protection	: Avoid skin contact. Wear personal protection apron, boots, if necessary.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: purple liquid
Odour	: minor solvent odour
рН	: Not applicable
Boiling point	:132~189 °C
Flash point	: 53 °C (closed cup)
Relative Density (at 25°C)	[:] 1.0 ~ 1.1 (g/cm ³)
Solubility in Water	: Insoluble

SECTION 10 STABILITY AND	REACTIVITY
Stability	Stable under normal handling.
Conditions to Avoid	: High temperature, Direct sunlight, Fire
Incompatible Materials	: Strong oxidising agents
Hazardous Decomposition Products	: CO, CO ₂
SECTION 11 TOXICOLOGICA	LINFORMATION

Acute toxicity	: LD/LC50 value	s that are releva	nt for classification	
	[1-ethoxypropa	n-2-ol]		
	Oral-rat	LD50	>5,000 mg/kg	
	Dermal-rabb	oit LD50	>5,000 mg/kg	
	[(2-methoxyme	thylethoxy)propa	inol]	
	Oral-rat	LD50	>5,000 mg/kg	
	Dermal-rabb	oit LD50	>5,000 mg/kg	
Eye irritation	Category 2A	Causes seriou	s eye irritation	
Specific target organ toxicity	: Category 3	May cause res	piratory irritation	
(single exposure)		May cause dro	wsiness or dizziness	
Carcinogenicity	: This product do	oes not contain a	ny component that is considered	
	a human carcir	nogen by IARC, A	ACGIH, EPA, EU or NTP.	

SECTION 12 ECOLOGICAL INFORMATION

Hazardous to the aquatic environment (acute)	: Classification not possible
Hazardous to the aquatic environment (chronic)	: Classification not possible
Hazardous to the ozone layer	: Classification not possible

SECTION 13 DISPOSAL CONSIDERATIONS

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

(DOT, ADR, IMDG, IATA)	 PRINTING INK, flammable 3 Ⅲ N 	
	: F-E,S-D	
	(DOT, ADR, IMDG, IATA)	(DOT, ADR, IMDG, IATA) : III : N

SECTION 15 REGULATORY INFORMATION

< EU Information > Regulation (EC) No 1272/2008 (CLP) Substance name : [1-ethoxypropan-2-ol] : Flammable liquids, Category 3 Hazard Class & Category Specific target organ toxicity - single exposure, Category 3 Symbols : GHS02,GHS07 Signal word : Warning Hazard statements : H226 Flammable liquid and vapour H336 May cause drowsiness or dizziness

< USA Information >

OSHA STATUS : This product is hazardous under 29 CFR 1910.1200. TSCA STATUS : All components on TSCA INVENTORY.

TSCA Hazard Communication Program (40 CFR Part 721) (SNUR)

CERCLA REPORTABLE QUANTITY (40 CFR 117,302)

SARA TITLE III Section 313 (40 CFR 372)

California Proposition 65

- : Not Applicable
- : Not Applicable
- : Not Applicable
 - : Not listed

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

SECTION 16 OTHER INFORMATION



This data sheet may not be enough when evaluating danger or hazard. The above information, which is created from currently available documents, information and data, may be revised when new findings announced. This document has been written on the assumption that when dealing with a large amount of ink on the business case and emergency. When handling as a normal product, please refer to the notes that is described in the produce or packaging. The information contained herein is not intended to provide any kind of warranty other than information, there is no guarantee for the accuracy of the content.





Issued Date : Dec. 19th, 2008 Revised Date : Jan. 18th, 2019

		Revised Date : Ja	in. 18th, 2019	
SECTION 1	CHEMICAL PRODUCT AND	COMPANY IDENTIFICATION		
Product Name	: TAT INDELIBLE INK Multipu	rpose Colour : (White)		
	STG, STG-1 (Small bottle), STG	-3(Large bottle)		
Company Name Address Telephone Fax Contact (e-mail) Emergency Call Recommended us	 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan + 81- 52- 521- 3600 + 81- 52- 521- 3899 chem-analysis@ngy.shachihata.co.jp Call + 81- 52- 521- 3600 (Shachihata Inc. [Japan]) 			
SECTION 2	HAZARDS IDENTIFICATION	V		
	d s juids t organ toxicity ; single exposure	Category 3 Category 2A Category 3 (respiratory tract irritation, narcotic e	effects)	
Carcinogenici	ty	Classification not possible		
Hazardous to	Hazards the aquatic environment (acute) the aquatic environment (chronic) the ozone layer	Classification not possible Classification not possible Classification not possible		
LABEL ELEMENTS Symbols	s			
Signal word	: Warning			
Hazard stateme	 Flammable liquid and vapor Causes serious eye irritation May cause respiratory irritation May cause drowsiness or operation 	on ation	(H226) (H319) (H335) (H336)	
Precautionary	statement			
[Prevention]				
		flames and other ignition sources. No smoking.	(P210)	
	prevent static discharges.		(P243)	
Wear eye prot			(P280)	
Avoid breathir	•		(P261)	
•	oors or in a well-ventilated area. horoughly after handling.		(P271) (P264)	

[Response]

In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish. IF INHALED : Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or physician if you feel unwell.

(P370+P378)

IF IN EYES : Rinse cautiously with water for several minutes.	(P305+P351+P338)
Remove contact lenses, if present and easy to do. Continue rinsing.	
If eye irritation persists : Get medical advice and attention.	(P337+P313)
IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water.	(P303+P361+P353)
If skin irritation occurs : Get medical advice and attention.	(P332+P313)
IF SWALLOWED : Get medical advice if you feel unwell. Rinse mouth.	(P301+P314+P330)
[Storage]	
Store in a well-ventilated place. Keep container tightly closed.	(P403+P233)
[Disposal]	
Dispose of contents and container in accordance with local regulations.	(P501)

SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

[ISO11014-2009][Shachihata Inc] [STG white m] 27/30

Ingredients

Chemical Name /	Composition	CAS	Hazard Class	Hazard statement
Generic name	weight %	Registry No.	(category)	
1-ethoxypropan-2-ol	10 ~ 20	1569-02-4	Flam. Liq. 3 Eye Irrit. 2A STOT. SE. 3	H226 H319 H336
(2-methoxymethylethoxy)propanol	30 ~ 40	34590-94-8	Flam. Liq. 4 STOT. SE. 3	H227 H335
Synthetic resin	20 ~ 30	Confidential	none	none
Aluminium oxide	1 ~ 2	1344-28-1	none	none
Titanium dioxide	20 ~ 27	13463-67-7	none	none
total	100			

SECTION 4 FIRST-AID MEASURES

IF INHALED	: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	Consult a doctor if symptoms persist.

- **IF ON SKIN** : Remove / Take off immediately all contaminated clothing. Wash with soap and water. If skin irritation/rash occurs or feel unwell, consult a doctor for medical advice.
- **IF IN EYES** : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
- **IF SWALLOWED** : After rinse mouth immediately, give about 250 ml of water or milk and thin in the stomach, and do not vomit forcibly. Moreover, do not give anything from the mouth to the patient when not conscious. Receive the doctor's treatment (stomach pump) promptly.

SECTION 5 FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA : Dry chemical powder, foam or carbon dioxide

UNSUITABLE EXTINGUISHING MEDIA : Water jet

SPECIFIC EXTINCTION METHOD

For initial stage extinction, carbon dioxide or dry chemical powder.

When a fire extends, fire is extinguished by a large amount of water spray.

Do not discharge extinguishing waters into the aquatic environment.

SPECIAL PROTECTIVE FOR FIRE- FIGHTERS

In the extinction work, an appropriate protective equipment (gloves, glasses, and mask) has to be worn. Because during a fire, hazardous gases may be generated, fire-fighters have to wear self-contained breathing apparatus and other protective equipment.

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

Evacuate personnel to safe area. Shut off all sources of ignition.

No Flares, smoking or flame in area. Put on protective equipment. Ensure adequate ventilation.

[ISO11014:2009][Shachihata Inc.] [STG_white_m] 28/30

ENVIRONMENTAL PRECAUTIONS

Do not throw the leakage thing directly into environment.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

In case of a small spill, remove by absorbing with absorbents (sawdust, soil, sand, waste cloth, etc.), and then wipe off the waste well with waste cloth, and rag.

In case of large spills, prevent leakage by enclosing with nonflammables (earth and sand, etc.)

and collect into empty container by scoop, suction equipment or the like.

SECONDARY ACCIDENT PREVENTION MEASURE

All ignition sources should be quickly removed. (No smoking in vicinity, prohibit sparks or fire sources.)

SECTION 7 HANDLING AND STORAGE

SECTION 8	EXPOSURE CONTROLS AND PERSONAL PROTECTION
Storage :	Keep containers tightly closed and store in a cool and dry place. Keep away from heat and flame, ignition source and sunlight. Keep out of the reach of children.
	Do not handle until all safety precautions have been read and understood. Do not eat, drink or smoke when using this product.
	Obtain special instructions before use.
	Avoid contact with skin, eyes and clothing.
Handling :	Use with adequate ventilation.

OCCUPATIONAL EXPOSURE LIMIT

Solubility in Water SECTION 10 STABIL	: Insoluble				
Relative Density (at 25°C)	: 1.1 ~ 1.2 (g/	/cm³)			
Flash point	: 53 °C (close	. /			
Boiling point	: 132 ~ 189 °C				
рН	: Not applicab				
Odour	: minor solven				
Appearance	: white liquid				
SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES					
Skin Protection : Avoid skin contact. Wear personal protection apron, boots, if necessary.					
Eye Protection	Eye Protection : Avoid contact with eyes. Wear safety glasses, if necessary.				
Hand Protection	Protection : Avoid contact with hands. Wear safety gloves, if necessary.				
PERSONAL PROTECTION Respiratory Protection : Use with local exhaust ventilation, when in long use. Avoid breathing vapours. Wear mask to prevent organic gas, if necessary.					
Japan Society for Occupa Titanium dioxide	tional Health (201 Dusts Class 2	I8) OEL (total dust)	4 mg/m ³		
DIRECTIVE 2000/39/EC (2-methoxymethylethoxy)propanol		TWA	50 ppm		
OSHA PEL (2-methoxymethylethoxy)propanol Titanium dioxide		TWA TWA	100 ppm 15 mg/m ³		
(2-methoxymethylethoxy)propanol Titanium dioxide		TWA TWA	100 ppm 10 mg/m ³		
ACGIH (2018)					

Stability

- : Stable under normal handling.
- Conditions to Avoid : High temperature, Direct sunlight, Fire

Incompatible Materials

Strong oxidising agents

Hazardous Decomposition Products : CO, CO₂

SECTION 11 TO	COLOGICAL INFORMATION				
Acute toxicity	: LD/LC50 values that are relevant for classification				
	[1-ethoxypropan-2-ol]				
	Oral-rat LD50 >5,000 mg/kg				
	Dermal-rabbit LD50 >5,000 mg/kg				
[(2-methoxymethylethoxy)propanol]					
	Oral-rat LD50 >5,000 mg/kg				
	Dermal-rabbit LD50 >5,000 mg/kg				
Eye irritation	: Category 2A Causes serious eye irritation				
Specific target organ	kicity : Category 3 May cause respiratory irritation				
(single exposure)	May cause drowsiness or dizziness				
Carcinogenicity	: Titanium dioxide has been classified by the IARC as Group 2B.				
	Other materials ; Not contain any component that is considered				
	a human carcinogen by IARC, ACGIH, EPA, EU or NTP.				

Regarding the carcinogenicity of titanium dioxide, International Agency for Research on Cancer (IARC) has classified as a group 2B. However, ACGIH (American Conference of Governmental Industrial Hygienists), EPA (Environmental Protection Agency), EU (European Chemicals Agency), NTP (National Toxicology Program, USA) in the classification of suspected carcinogenic to humans has not been done. Therefore, as the ink product we could not classify the carcinogenicity of GHS from that there is no sufficient data.

SECTION 12 ECOLOGICAL INFORMATION

Hazardous to the aquatic environment (acute)	Classification not possible
Hazardous to the aquatic environment (chronic)	: Classification not possible
Hazardous to the ozone layer	: Classification not possible

SECTION 13 DISPOSAL CONSIDERATIONS

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

SECTION 15 REGULATORY INFORMATION

< EU Information > Regulation (EC) No 1272/2008 (CLP) Substance name : [1-ethoxypropan-2-ol] Hazard Class & Category : Flammable liquids, Category 3 Specific target organ toxicity - single exposure, Category 3 Symbols : GHS02,GHS07 Signal word : Warning Hazard statements : H226 Flammable liquid and vapour H336 May cause drowsiness or dizziness

< USA Information >

OSHA STATUS : This product is hazardous under 29 CFR 1910.1200. TSCA STATUS : All components on TSCA INVENTORY.

TSCA Hazard Communication Program (40 CFR Part 721) (SNUR)

CERCLA REPORTABLE QUANTITY (40 CFR 117,302)

SARA TITLE III Section 313 (40 CFR 372)

California Proposition 65

- : Not Applicable
- : Not Applicable
- : Not Applicable
- : Titanium dioxide
 - (airborne, unbound particles of respirable size)

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

SECTION 16 OTHER INFORMATION



This data sheet may not be enough when evaluating danger or hazard. The above information, which is created from currently available documents, information and data, may be revised when new findings announced. This document has been written on the assumption that when dealing with a large amount of ink on the business case and emergency. When handling as a normal product, please refer to the notes that is described in the produce or packaging. The information contained herein is not intended to provide any kind of warranty other than information, there is no guarantee for the accuracy of the content.