



# Safety Data Sheet

(MSDS)

Issued Date : 2 July 2008  
 Revised Date : 12 November 2020

## SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	: TAT INDELIBLE INK (Special Type) M-282	Colour : (Black)
	STO-1/M-282-K (Small bottle), STO-3/M-282-K (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	: <a href="https://www.artlineworld.com/contact/">https://www.artlineworld.com/contact/</a>	<b>Colour</b>
Emergency Call	: + 81- 52- 521- 3600 (Shachihata Inc. [Japan] )	
Recommended use	: Stamp ink	



## SECTION 2 HAZARDS IDENTIFICATION

### GHS Classification

#### Physical Hazards

Flammable liquids	Category 3
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#### Health Hazards

Skin irritation	Category 2
Serious eye damage	Category 1
Specific target organ toxicity : single exposure	Category 3 (respiratory tract irritation, narcotic effects)

#### Environmental Hazards

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

### LABEL ELEMENTS

#### Symbols



#### Signal word

: Danger

#### Hazard statement

: Flammable liquid and vapour  
 Causes skin irritation  
 Causes serious eye damage  
 May cause respiratory irritation  
 May cause drowsiness or dizziness

(H226)

(H315)

(H318)

(H335)

(H336)

### Precautionary statement

#### 【Prevention】

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

(P210)

Take precautionary measures against static discharge.

(P243)

Avoid breathing vapours.

(P261)

Wash hands thoroughly after handling.

(P264)

Use only outdoors or in a well-ventilated area.

(P271)

Wear protective gloves and eye protection .

(P280)

#### 【Response】

IF ON SKIN : Wash with plenty of water and soap.

(P302+P352)

IF ON SKIN (or hair) : Take off immediately all contaminated clothing. Rinse skin with water.

(P303+P361+P353)

IF INHALED : Remove person to fresh air and keep comfortable for breathing.

(P304+P340)

**IF IN EYES :** Rinse cautiously with water for several minutes.

(P305+P351+P338)

Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a POISON CENTER or physician.

(P310)

If skin irritation occurs : Get medical advice and attention.

(P332+P313)

In case of fire : Use dry chemical powder, foam or carbon dioxide to extinguish.

(P370+P378)

**【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 / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
2-Methylpropan-1-ol	35 ~ 45	78-83-1	Flam.Liq.3 Skin Irrit.2 Eye Dam.1 STOT.SE.3	H226 H315 H318 H335+H336
Benzyl alcohol	15 ~ 25	100-51-6	Acute Tox.(oral) 4 Acute Tox.(inhal.) 4 Eye Irrit.2A	H302 H332 H319
(2-Methoxymethylethoxy)propanol	15 ~ 25	34590-94-8	Flam.Liq.4 STOT.SE.3	H227 H335
Synthetic resin	1 ~ 10	Confidential	none	none
Dyestuff	10 ~ 20	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 (2020)

2-Methylpropan-1-ol	TWA	50 ppm
(2-Methoxymethylethoxy)propanol	TWA	100 ppm

#### OSHA PEL

2-Methylpropan-1-ol	TWA	100 ppm
(2-Methoxymethylethoxy)propanol	TWA	100 ppm

#### DIRECTIVE 2000/39/EC

(2-Methoxymethylethoxy)propanol	TWA	50 ppm
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#### Japan Society for Occupational Health (2020)

2-Methylpropan-1-ol	TWA	50 ppm
Benzyl alcohol	TWA	25 mg/m <sup>3</sup>

## 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** : Black liquid

**Odour** : Solvent odour

**pH** : Not applicable

**Boiling point** : 108 ~ 205 °C

**Flash point** : 36 °C (closed cup)

**Relative Density (at 25°C)** : 0.9 ~ 1.0 (g/cm<sup>3</sup>)

**Solubility in Water** : Insoluble

## SECTION 10 STABILITY AND REACTIVITY

<b>Stability</b>	: Stable under normal handling.
<b>Conditions to Avoid</b>	: High temperature, Direct sunlight, Fire
<b>Incompatible Materials</b>	: Strong oxidising agents
<b>Hazardous Decomposition Products</b>	: CO, CO <sub>2</sub>

## SECTION 11 TOXICOLOGICAL INFORMATION

<b>Acute toxicity</b>	: LD/LC50 values that are relevant for classification		
	[2-Methylpropan-1-ol]		
Oral-rat	LD50	>2,000 mg/kg	
Dermal-rabbit	LD50	>2,000 mg/kg	
Inhalation-rat	LC50	>20 mg/L/4h	
	[Benzyl alcohol]		
Oral-rat	LD50	>300 - <=2,000 mg/kg	
Inhalation-rat	LC50	>10 - <=20 mg/L/4h	
	[(2-Methoxymethylethoxy)propanol]		
Oral-rat	LD50	>5,000 mg/kg	
Dermal-rabbit	LD50	>5,000 mg/kg	
<b>Skin irritation</b>	: Category 2	Causes skin irritation	
<b>Serious eye damage</b>	: Category 1	Causes serious eye damage	
<b>Specific target organ toxicity (single exposure)</b>	: Category 3	May cause respiratory irritation May cause drowsiness or dizziness	
<b>Carcinogenicity</b>	: This product does not contain any component that is considered a human carcinogen by IARC, ACGIH, EPA, EU or NTP.		

## SECTION 12 ECOLOGICAL INFORMATION

<b>Hazardous to the aquatic environment (acute)</b>	: Classification not possible
<b>Hazardous to the aquatic environment (chronic)</b>	: Classification not possible
<b>Hazardous to the ozone layer</b>	: 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

<b>UN number</b>	(DOT, ADR, IMDG, IATA)	: UN1993
<b>UN proper shipping name</b>	(DOT, ADR, IMDG, IATA)	: FLAMMABLE LIQUID, N.O.S. (2-Methylpropan-1-ol)
<b>UN Classification</b>		: 3
<b>Packing group</b>	(DOT, ADR, IMDG, IATA)	: III
<b>Marine pollutant (Y/N)</b>		: N
<b>EmS number</b>		: F-E,S-E



## SECTION 15 REGULATORY INFORMATION

< EU Information >	
Regulation (EC) No 1272/2008 (CLP)	
Substance name	: [2-Methylpropan-1-ol]
Hazard Class & Category	: Flammable liquids, Category 3 Skin irritation, Category 2 Eye Damage, Category 1 Specific Target Organ Toxicity(Single Exposure), Category 3
Symbols	: GHS02,GHS05,GHS07
Signal word	: Danger

Hazard statements	:	H226      Flammable liquid and vapour
		H315      Causes skin irritation
		H318      Causes serious eye damage
		H335      May cause respiratory irritation
		H336      May cause drowsiness or dizziness
Substance name	:	[Benzyl alcohol]
Hazard Class & Category	:	Acute toxicity (inhalation: vapour), Category 4 Acute toxicity (oral), Category 4
Symbols	:	GHS07
Signal word	:	Warning
Hazard statements	:	H332      Harmful if inhaled H302      Harmful if swallowed

## &lt; USA Information &gt;

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

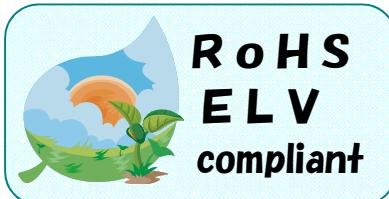
CERCLA REPORTABLE QUANTITY (40 CFR 117,302) : RQ 5000 pounds [2-Methylpropan-1-ol]

SARA TITLE III Section 313 (40 CFR 372) : Not Applicable

California Proposition 65 : 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.

EU RoHS (Directive 2011/65/EU)

EU ELV (DIRECTIVE 2000/53/EC)