

Safety Data Sheet (MSDS)

Issued Date : 19 January 2009

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SECTION 1 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name : TAT INDELIBLE INK (Special Type) M-350 Colour : (Red)

STO-1/M-350-R (Small bottle), STO-3/M-350-R (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) : chem-analysis@ngy.shachihata.co.jp
Emergency Call : + 81- 52- 521- 3600 (Shachihata Inc. [Japan])

Recommended use : Stamp ink

Colour


SECTION 2 HAZARDS IDENTIFICATION

GHS Classification

Physical Hazards

Flammable liquids Category 2

Health Hazards

Skin irritation Category 2

Carcinogenicity Category 2

Toxic to reproduction Category 2

Specific target organ toxicity : single exposure Category 3 (narcotic effects)

Specific target organ toxicity : repeated exposure Category 2 (nervous system, blood, respiratory organ)

Aspiration hazard Category 1

Environmental Hazards

Hazardous to the aquatic environment (acute) Category 2

Hazardous to the aquatic environment (chronic) Category 2

Hazardous to the ozone layer Classification not possible



LABEL ELEMENTS

Symbols


Signal word : Danger

Hazard statement : Highly flammable liquid and vapour

(H225)

Causes skin irritation

(H315)

Suspected of causing cancer

(H351)

Suspected of damaging fertility or the unborn child

(H361)

May cause drowsiness or dizziness

(H336)

May cause damage to organs through prolonged or repeated exposure

(H373)

(nervous system, blood, respiratory organ)

May be fatal if swallowed and enters airways

(H304)

Toxic to aquatic life

(H401)

Toxic to aquatic life with long lasting effects

(H411)

Precautionary statement

【Prevention】

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

(P210)

Keep container tightly closed.

(P233)

Do not breathe vapours.

(P260)

Wash hands thoroughly after handling.

(P264)

Use only outdoors or in a well-ventilated area.

(P271)

Avoid release to the environment.

(P273)

Wear protective gloves and eye protection .

(P280)

【Response】

IF SWALLOWED : Immediately call a POISON CENTER or physician.

(P301+P310)

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 exposed or concerned : Get medical advice and attention.

(P308+P313)

Call a POISON CENTER or physician if you feel unwell.

(P312)

Do NOT induce vomiting.

(P331)

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)

Collect spillage.

(P391)

【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
Toluene	15 ~ 25	108-88-3	Flam. Liq. 2 Skin Irrit. 2 Repr. 2 STOT. SE. 3 STOT. RE. 2 Asp. Tox. 1	H225 H315 H361 H336 H373 H304
Solvent naphtha (petroleum), heavy arom	30 ~ 40	64742-94-5	Flam. Liq. 4 Carc. 2 Asp.Tox. 1 STOT. SE. 3 Aquatic Acute 2 Aquatic Chronic 2	H227 H351 H304 H336 H401 H411
contained (Naphthalene) (Trimethylbenzene)	< 3 < 2	(91-20-3) (95-63-6)		
Synthetic resin	35 ~ 45	Confidential	none	none
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 (2020)

Naphthalene	TWA	10 ppm
Toluene	TWA	20 ppm

OSHA PEL

Naphthalene	TWA	10 ppm
Toluene	TWA	200 ppm

DIRECTIVE 2000/39/EC

Trimethylbenzene	TWA	20 ppm
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DIRECTIVE 91/322/EC

Naphthalene	TWA	10 ppm
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DIRECTIVE 2006/15/EC

Toluene	TWA	50 ppm
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Japan Society for Occupational Health (2020)

Trimethylbenzene	TWA	25 ppm
Toluene	TWA	50 ppm

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 : Red liquid
- Odour : Solvent odour
- pH : Not applicable
- Boiling point : 110 ~ 180 °C
- Flash point : 5 °C (closed cup)
- Relative Density (at 25°C) : 1.0 (g/cm³)
- 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, CO₂

SECTION 11 TOXICOLOGICAL INFORMATION

- Acute toxicity : LD/LC50 values that are relevant for classification
[Toluene]
- | | | |
|----------------|------|--------------|
| Oral-rat | LD50 | >5,000 mg/kg |
| Dermal-rabbit | LD50 | >5,000 mg/kg |
| Inhalation-rat | LC50 | >20 mg/L/4h |
- [Naphthalene]
- | | | |
|----------|------|----------------------|
| Oral-rat | LD50 | >300 - <=2,000 mg/kg |
|----------|------|----------------------|
- Skin irritation : Category 2 Causes skin irritation
- Carcinogenicity : Category 2 Suspected of causing cancer
- Toxic to reproduction : Category 2 Suspected of damaging fertility or the unborn child
- Specific target organ toxicity : Category 3 May cause drowsiness or dizziness
; single exposure
- Specific target organ toxicity : Category 2 May cause damage to organs through prolonged
; repeated exposure or repeated exposure
(nervous system, blood, respiratory organ)
- Aspiration toxicity : Category 1 May be fatal if swallowed and enters airways
- Carcinogenicity : Naphthalene has been classified by the IARC as Group 2B and NTP as R.
Other materials : Not contain any component that is considered
a human carcinogen by IARC, ACGIH, EPA, EU or NTP.

SECTION 12 ECOLOGICAL INFORMATION

- Hazardous to the aquatic environment (acute) : Category 2 Toxic to aquatic life
- Hazardous to the aquatic environment (chronic) : Category 2 Toxic to aquatic life with long lasting effects
- 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) : UN1993

UN proper shipping name (DOT, ADR, IMDG, IATA) : FLAMMABLE LIQUID, N.O.S.
(Toluene)

UN Classification : 3

Packing group (DOT, ADR, IMDG, IATA) : II

Marine pollutant (Y/N) : N

EmS number : F-E, S-E

**SECTION 15 REGULATORY INFORMATION**

< EU Information >

Regulation (EC) No 1272/2008 (CLP)

Substance name : [Toluene]

Hazard Class & Category : Flammable liquids, Category 2

Reproductive toxicity, Category 2

Aspiration toxicity, Category 1

Skin irritation, Category 2

Specific target organ toxicity - repeated exposure, Category 2

Specific target organ toxicity - single exposure, Category 3

Symbols : GHS02,GHS08,GHS07

Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour
H361 Suspected of damaging fertility or the unborn child
H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H373 May cause damage to organs through prolonged or repeated exposure
H336 May cause drowsiness or dizziness

Substance name : [Solvent naphtha (petroleum), heavy arom]

Hazard Class & Category : Aspiration toxicity, Category 1

Symbols : GHS08

Signal word : Danger

Hazard statements : H304 May be fatal if swallowed and enters airways.

Substance name : [Naphthalene]

Hazard Class & Category : Carcinogenicity, Category 2

Acute toxicity (oral), Category 4

Hazardous to the aquatic environment, acute toxicity, Category 1

Hazardous to the aquatic environment, chronic toxicity, Category 1

Symbols : GHS07,GHS08,GHS09

Signal word : Warning

Hazard statements : H351 Suspected of causing cancer .
H302 Harmful if swallowed.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

< 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 III Section 313 (40 CFR 372)

California Proposition 65

: Listed [Toluene] [Naphthalene]

: Listed [Toluene] [Naphthalene] [Trimethylbenzene]

: Listed [Toluene] [Naphthalene]

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

SECTION 16 OTHER INFORMATION



EU RoHS (Directive 2011/65/EU)
EU ELV (DIRECTIVE 2000/53/EC)

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.