

Safety Data Sheet (MSDS)



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

SECTION 1	CHEMICAL PRODUCT AND COMPANY IDENTIFICATION			
Product Name	: TAT SOLVENT			
	SOL-31, SOL-1-31(Small bottle), SOL-3-31(Large bottle)			
Company Name Address Telephone Fax Contact (e-mail) Emergency Call Recommended us	 Shachihata Inc. 4-69,Amazuka-cho,Nishi-ku,Nagoya City,451-0021,Japan + 81- 52- 521- 3600 + 81- 52- 521- 3899 <u>chem-analysis@ngy.shachihata.co.jp</u> + 81- 52- 521- 3600 (Shachihata Inc. [Japan]) Stamp ink solvent 			
SECTION 2	HAZARDS IDENTIFICATION			
GHS Classificatio Physical Hazard Flammable lid Health Hazards Eye irritation Specific targe	ds quids Category 3	cts)		
Hazardous to	Hazardsthe aquatic environment (acute)Classification not possiblethe aquatic environment (chronic)Classification not possiblethe ozone layerClassification not possible			
LABEL ELEMENT Symbols				
Signal word	: Warning			
Hazard stateme	ent : Flammable liquid and vapour Causes serious eye irritation May cause respiratory irritation May cause drowsiness or dizziness	(H226) (H319) (H335) (H336)		
Precautionary (Prevention)	statement			
Take action to Wear eye pro Avoid breathi		(P210) (P243) (P280) (P261) (P271)		
【Response】 In case of fire IF INHALED :	thoroughly after handling. : Use dry chemical powder, foam or carbon dioxide to extinguish. Remove person to fresh air and keep comfortable for breathing. N CENTER or physician if you feel unwell.	(P264) (P370+P378) (P304+P340) (P312)		

(13011014.2007)(3hachinata int.) (30E-31_K) 2/3	
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][Shachibata Inc] [SOI -31 k] 2/5

Ingredients

Chemical Name / Generic name	Composition weight %	CAS Registry No.	Hazard Class (category)	Hazard statement
1-ethoxypropan-2-ol	25 ~ 35	1569-02-4	Flam. Liq. 3 Eye Irrit. 2A STOT. SE. 3	H226 H319 H336
(2-methoxymethylethoxy)propanol	65 ~ 75	34590-94-8	Flam. Liq. 4 STOT. SE. 3	H227 H335
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.
	· Remove / Take off immediately all contaminated clothing. Wash with soon and water

 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

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.),

[ISO11014:2009][Shachihata Inc.] [SOL-31_k] 3/5

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 a Obtain special instructions before Do not handle until all safety p Do not eat, drink or smoke when 	ore use. recautions have	
Storage	: Keep containers tightly closed Keep away from heat and flam Keep out of the reach of childr	e, ignition sour	
SECTION 8	EXPOSURE CONT	ROLS AND F	PERSONAL PROTECTION
OCCUPATIONAL EXPOSURE LIMIT ACGIH (2018) (2-methoxymethylethoxy)propanol TWA 100 ppm			
ACGIH (TWA	100 ppm
ACGIH ((2-me OSHA F	2018) thoxymethylethoxy)propanol	TWA TWA	100 ppm 100 ppm

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	: colourless liquid
Odour	: minor solvent odour
рН	: Not applicable
Boiling point	:132~189 °C
Flash point	: 49 °C (closed cup)
Relative Density (at 25°C)	: 0.9 (g/cm ³)
Solubility in Water	: soluble
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SECTION 10	STABILITY AND REACTIVITY
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SECTION 11 TOXICOLOGICA	AL INFORMATION
Hazardous Decomposition Products	: CO, CO ₂
Incompatible Materials	: Strong oxidising agents
Conditions to Avoid	: High temperature, Direct sunlight, Fire
Stability	: Stable under normal handling.

Acute toxicity	: LD/LC50 values that are relevant for classification		
	[1-ethoxypropan-2-ol]		
	Oral-rat	LD50	>5,000 mg/kg

	Dermal-rabb	it LD50	>5,000 mg/kg		
	[(2-methoxymethylethoxy)propanol]				
	Oral-rat	LD50	>5,000 mg/kg		
	Dermal-rabb	it LD50	>5,000 mg/kg		
Eye irritation	: Category 2A	Causes seriou	s eye irritation		
Specific target organ toxicity (single exposure)	: Category 3 May cause respiratory irritation May cause drowsiness or dizziness		. ,		
Carcinogenicity	 This product does 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)	: 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 RELATED MATER	RIAL, flammable
UN Classification		: 3	
Packing group	(DOT, ADR, IMDG, IATA)	: III	
Marine pollutant (Y/N)		: N	
EmS number		: F-E,S-D	

SECTION 15 REGULATORY INFORMATION

< EU Information >

Regulation (EC) No 1272/200	8 (CLP)		
Substance name	: [1-ethoxypropan-2-ol]		
Hazard Class & Category	: Flammable liquids, Category 3		
	Speci	fic target organ toxicity - single exposure, Category 3	
Symbols	: GHS0	2,GHS07	
Signal word	: Warni	ng	
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)	: Not Applicable
CERCLA REPORTABLE QUANTITY (40 CFR 117,302)	: Not Applicable
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



EU RoHS Directive(2011/65/EC) 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.