



MATERIAL SAFETY DATA SHEET

(According to ANSI Z400.1-2004)

PRODUCT NAME: STA-SHARP ADHERING LIQUID

Previous Issue: June 23, 2008

Date Prepared: January 19, 2011

1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name: **STA-SHARP ADHERING LIQUID**
 Company: ULANO® CORPORATION
 110 Third Avenue
 Brooklyn, NY 11217
 Phone: 718-237-4700
 Fax: 718-802-1119
 Emergency contact: 1-800-424-9300 (CHEMTREC)

MSDS prepared by: Fred Widman

Recommended use: Solvent blend for film adhesion to screen fabric for screenprinting

2. HAZARD IDENTIFICATION OF THE PREPARATION

This preparation is classified as a flammable hazardous according to 29CFR 1910-1200.

Appearance / Odor: liquid / solvent aroma

Potential Health Effects: See Section 11 for more information

Potential Health Effects Eyes

This product may be irritating to the eyes.

Potential Health Effects: Skin

Repeated exposure may cause skin dryness or cracking

Some absorption expected

Potential Health Effects: Ingestion

Ingestion of this product may be irritating to the digestive system. Aspiration into lungs can produce severe lung damage and is a medical emergency.

Potential Health Effects: Inhalation

Inhalation of this product may be irritating to the respiratory system.

Vapours may cause drowsiness and dizziness

F Highly flammable

N Dangerous to the environment

Xn Harmful

11 Highly flammable

36/38 Irritating to eyes and skin

50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment

66 Repeated exposure may cause skin dryness or cracking

67 Vapors may cause drowsiness and dizziness.

Target Organs: skin, eyes and respiratory system

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This product contains 2-propanol, listed by the IARC as "3", not classifiable as to carcinogenicity to humans. There are no carcinogens or potential carcinogens as listed by OSHA or the NTP

Potential Environmental Effects: See Section 12 for more information.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Mixture of the below mentioned materials

Hazardous components:

EINECS-No CAS-No.	Name R-phrases	Hazard	%content
205-500-4 141-78-6	Ethyl Acetate 11-36-66-67	Xi, F	10.0-30.0%
205-563-8 142-82-5	Heptane 11-65-38-67-50/53	F, Xn, N	30.0-60.0%
204-658-1 123-86-4	n-Butyl Acetate 10-66-67		1.0-5.0%
200-661-7 67-63-0	2-Propanol 11-36-67	F, Xi	10.0-30.0%

Additional information:

For full text of risk phrases see Section 16.

4. FIRST AID MEASURES**Inhalation:**

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Get medical attention. Place in stable side position and seek medical advice. If breathing is irregular or has stopped, apply artificial respiration. Aspiration into lungs can produce severe lung damage and is a medical emergency.

Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Get medical attention if irritation develops. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

5. FIRE-FIGHTING MEASURES

Flammable: yes

Means of extinction: foam, dry powder, carbon dioxide

Unsuitable extinguishing media: Hard water stream

Flash point: 10.0-19.0°F (-12.2 to -17.2°C) Upper flammable limit: 12.0%

Explosion data impact: Not known Lower flammable limit: 1.1%

Explosion data static: above flashpoint yes

Hazardous combustion products: typical carbon oxygen compounds.

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Fire fighters should wear SCBA for fighting fires in enclosed areas.

Autoignition temp: unknown

6. ACCIDENTAL RELEASE MEASURES

Do not empty into drains. Keep away sources of ignition. Ensure sufficient ventilation. Prevent unauthorized access. Collect with liquid absorbing material and proceed according to local waste disposal regulations.

7. HANDLING AND STORAGE

Keep container tightly closed and in a cool and well ventilated place. Ensure adequate ventilation, especially when using a spray-gun. Avoid contact with skin and eyes. Avoid flammable explosive air / vapor mixtures. Prevent concentrations exceeding the exposure limits.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Occupational exposure limit:

CAS #	Name	OSHA TWA	ACGIH TWA
141-78-6	Ethyl Acetate	400 ppm	400 ppm
142-82-5	Heptane	500 ppm	400 ppm
123-86-4	n-Butyl Acetate	150 ppm	150 ppm
67-63-0	2-Propanol	400 ppm	400 ppm

Engineering controls

General- not required

Local exhaust- recommended

Other- none

Personal Protection

Gloves- solvent impermeable recommended

Respirator- yes if local or general exhaust is not used

Eye- protective goggles recommended

Protective footwear- not required

Protective clothing- not required

Other- none

9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid
Color:	colorless
Odor:	solvent
Flash point:	10.0-19.0°F
Ignition temperature:	n.a
Density:	0.79 g/cm ³
Viscosity:	unknown
Explosion limits:	1.1-12.0 Vol %
Boiling point:	169°F (76° C)
Vapour density:	>1(air=1)
Vapour pressure:	76 mm Hg @ 20°C
Freezing point:	not known

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pH: not applicable
 Coefficient of water/ oil distribution: not known
 Volatile Organic Compounds: 790 GRAMS / LITER, 6.58 LBS / GAL

10. STABILITY AND REACTIVITY

Stable under recommended storage and handling conditions
 (see Section 7).

Store as a flammable liquid

INCOMPATIBILITY: Strong oxidizers

11. TOXICOLOGICAL INFORMATION

Effects of acute exposure:

COMPONENT	CAS#	LD ₅₀	LC ₅₀
Ethyl Acetate	141-78-6	5620 mg/kg oral, rat	1600 ppm inhalation 8 hour, rat
Heptane	142-82-5	No data	103 g/m ³ /4H, inhalation, rat
n-Butyl Acetate	123-86-4	10.8 g/kg, oral, rat	2000 ppm/4H inhalation, rat
2-Propanol	67-63-0	5045 mg/kg, oral, rat	16,000 ppm/8H inhalation, rat

General information:

Effects of acute exposure:

Repeated or prolonged contact causes local irritation of skin and mucous membranes, particularly the eyes. Inhalation of high concentrations may cause nausea, dizziness, narcotic effect.

Irritancy of product- yes

Skin sensitization- none reported

Respiratory sensitization- none known

Carcinogenicity- no

IARC- 2-propanol is classified "3", not classifiable as to carcinogenicity to humans.

ACGIH - no

Reproductive toxicity - none known

Teratogenicity - none known

Embryotoxicity - none known

Mutagenicity - none known

Name of synergistic products/effects- none known

12. ECOLOGICAL INFORMATION

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Do not empty into drains or release into open water.

Do not store at public waste disposal sites.

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13. WASTE DISPOSAL INFORMATION

Dispose of as a flammable hazardous waste
 Empty container: scrap metal recycling or re-conditioning
 Soiled container: (treatment like product itself)

14. TRANSPORT INFORMATION

ADR/RID/DOT:	Class: 3 UN: 1993 Flammable liquid, nos (heptane, ethyl acetate, 2-propanol)
Packaging group:	II
IMDG:	Class: 3 EMS: F-E, <u>S-E</u> UN: 1993 Flammable liquid, nos (heptane, ethyl acetate, 2-propanol)
Marine pollutant:	No
Packaging group:	II

15. REGULATORY INFORMATION

Labeling:

F Flammable liquid

R-phrases:

11 Highly flammable
 36/38 Irritating to eyes and skin
 50/53 Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
 66 Repeated exposure may cause skin dryness or cracking
 67 Vapors may cause drowsiness and dizziness

S-phrases:

7/9 Keep container tightly closed and in a well-ventilated place
 16 Keep away from sources of ignition – No smoking
 24 Avoid contact with skin
 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical attention

Special labeling:

n.a

National Regulation for Germany:

Water pollution class: 2

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of information required by the CPR, and it is classified as a Code B2, D2B hazardous material.

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Ingredient	--Canada--			
	TSCA	EC	DSL	NDSL
Ethyl Acetate (141-78-6)	Yes	Yes	Yes	No
Heptane (142-82-5)	Yes	Yes	Yes	No
n-Butyl Acetate (123-86-4)	Yes	Yes	Yes	No
2-Propanol (67-63-0)	Yes	Yes	Yes	No

Ingredient	-SARA 302-		SARA 313	-RCRA-	CERCLA	TSCA
	RQ	TPQ	List	RQ	261.33	8(d)
Ethyl Acetate	No	No	No	U112	5,000	No
Heptane	No	No	No	No	No	Yes
n-Butyl Acetate	No	No	No	No	5000	No
2-Propanol	No	No	Yes	No	No	No

16. OTHER INFORMATION**HMIS: Health 2, Flammability 2, Reactivity 0**

Text of risk phrases mentioned in Section 2:

11	Highly flammable
36/38	Irritating to eyes and skin
50/53	Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
66	Repeated exposure may cause skin dryness or cracking
67	Vapors may cause drowsiness and dizziness

For further information please refer to our technical information sheet. Data in this MSDS correspond with our current level of knowledge, but do not represent any assurance of product properties. The user personally is responsible for compliance with all legal requirements.

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