



# MATERIAL SAFETY DATA SHEET

(According to ANSI Z400.1-2004)

**PRODUCT NAME: CITRUS SCREEN OPENER**

**Previous Issue: August 11, 2006**

**Date Prepared: May 5, 2009**

## 1. IDENTIFICATION OF PRODUCT AND COMPANY

Product Name: **CITRUS SCREEN OPENER**  
 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: Screenprinting screen cleaner

## 2. HAZARD IDENTIFICATION OF THE PREPARATION

This preparation is classified as a combustible liquid 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	Flammable liquid
Xn	Harmful
N	Dangerous for the environment
10	Flammable
20	Harmful by inhalation
36/37/38	Irritating to eyes, respiratory system and skin
43	May cause sensitization by skin contact
51/53	Toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
65	Harmful: may cause lung damage if swallowed

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.

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### 3. COMPOSITION/INFORMATION ON INGREDIENTS

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Mixture of the below mentioned materials

Hazardous components:

<b>EINECS-No</b>	<b>Name</b>	<b>Hazard</b>	<b>%content</b>
<b>CAS-No.</b>	<b>R-phrases</b>		
203-132-9	Propylbenzene		
103-65-1	10-37-51/53-65	Xn, N	1.0-5.0
203-604-4	Mesitylene		
108-67-8	10-37-51/53	Xi, N	1.0-5.0
202-436-9	1,2,4-trimethyl-benzene		
95-63-6	10-20-36/37/38-51/53	Xn, N	5.0-10.0
265-199-0	Naphtha (petroleum distillates)		
64742-95-6	10-37-65-51/53	Xn, N	30.0-60.0%
203-603-9	2-methoxy-1-methylethyl acetate		
108-65-6	10-36	Xi	15.0-40.0
none	2-propoxypropanol		
1569-01-3			10.0-30.0
227-813-5	p-menthadiene		
5989-27-5	10-38-43-50/53	Xi, N	1.0-5.0%

**Additional information:**

For full text of risk phrases see Section 16.

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### 4. FIRST AID MEASURES

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**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.



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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: 111°F (44°C)  
 Ignition temperature: n.a  
 Density: 0.92 g/cm<sup>3</sup>  
 Viscosity: 11 s 4mm  
 Explosion limits: 1.9-12.6 Vol %  
 Boiling point: 248°F (120° C)  
 Vapour density: not known  
 Vapour pressure: 6 mbar  
 Freezing point: not applicable  
 pH: not applicable  
 Coefficient of water/ oil distribution: not known

**Volatile Organic Compounds: 920 GRAMS / LITER, 7.67 LBS / GAL**

## 10. STABILITY AND REACTIVITY

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

Store as a combustible liquid

INCOMPATIBILITY: Strong oxidizers

## 11. TOXICOLOGICAL INFORMATION

Effects of acute exposure:

COMPONENT	CAS#	LD <sub>50</sub>	LC <sub>50</sub>
Propylbenzene	103-65-1	6040 mg/kg, oral, rat	20,000 mg/m <sup>3</sup> , inhalation, mouse
Mesitylene	108-67-8	8,970 mg/kg, oral, rat	>2,400 ppm, inhalation, rat
1,2,4-trimethyl-benzene	95-63-6	5000 mg/kg, oral, rat	Unknown
Naphtha (petroleum distillates)	64742-95-6	6800 mg/kg, oral, rat 3400 mg/kg dermal, rat	>10.2 mg/L 4H, inhalation, rat
2-methoxy propanol acetate	108-65-6	8500 mg/kg, oral, rat	Unknown
1-methoxy-2-propanol	107-98-2	6600 mg/kg, oral rat	15,000 ppm, inhalation, rat

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**General information:**

Effects of acute exposure- irritation

2-Methoxy-1-propanol has been shown to cause developmental effects in female rabbits exposed to 225, 350, and 545 ppm by inhalation during pregnancy.

No effect was observed at 145 ppm (NOEL) in this study. The acetate of 2-methoxy-1-propanol also has been tested for developmental effects. Information for the acetate is pertinent since the acetate portion of this molecule is quickly removed in a living organism to yield 2-methoxy-1-propanol. The offspring of rats exposed to concentrations of 0, 110, 550, or 2,700 ppm developed vertebral incisions at the highest exposure level, in the presence of maternal toxicity.

Rabbits exposed to 0, 36, 145, or 550 ppm of 2-methoxy-1-propanol acetate bore offspring that showed malformations of sternum, paws, major blood vessels and the heart at the highest exposure level. A concentration of 145 ppm was the no observed effect level (NOEL) for adverse developmental effects from the acetate of 2-methoxy-1-propanol.

Repeated exposure may lead to permanent respiratory disability.

Irritancy of product- yes

Skin sensitization- possible

Respiratory sensitization- possible

Carcinogenicity- Naphtha has been suspected of being a carcinogen.

**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.

**13. WASTE DISPOSAL INFORMATION**

Dispose of as a flammable hazardous waste

Empty container: scrap recycling or re-conditioning

Soiled container: (treatment like product itself)

**14. TRANSPORT INFORMATION**

DOT: Not regulated

ADR/RID : Class: 3

UN: 1263

Paint related material

Packaging group: III

IMDG: Class: 3

EMS: F-E, S-E

UN: 1263

Paint related material

Hazardous component: Solvent naphtha (-MP-)

Marine pollutant: p

Packaging group: III

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## 15. REGULATORY INFORMATION

### Labeling

F Flammable liquid  
N Dangerous for the environment

### R-phrases:

10 Flammable.  
20 Harmful by inhalation  
36/37/38 Irritating to eyes, respiratory system and skin  
43 May cause sensitization by skin contact  
51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.  
65 Harmful: May cause lung damage if swallowed

### S-phrases:

23 Do not breathe gas / fumes / vapor / spray  
24/25 Avoid contact with skin and eyes  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical attention  
61 Avoid release to the environment. Refer to special instructions / safety data sheets.  
62 If swallowed, do not induce vomiting: Seek medical advice immediately and show this container or label

### 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.

Ingredient	--Canada--						
	TSCA	EC	DSL	NDSL			
Propylbenzene	Yes	Yes	Yes	No			
Mesitylene	Yes	Yes	Yes	No			
1,2,4-trimethyl-benzene	Yes	Yes	Yes	No			
Naphtha, petroleum distillates	Yes	Yes	Yes	No			
2-methoxypropanol acetate	Yes	Yes	Yes	No			
1-methoxy-2-propanol	Yes	Yes	Yes	No			
p-menthadiene	Yes	Yes	Yes	No			
	-SARA 302- SARA 313 -RCRA-CERCLA - TSCA						
Ingredient	RQ	TPQ	List	RQ	261.33	8(d)	
Propylbenzene	No	No	No	No	No	No	
Mesitylene	No	No	No	No	No	No	
1,2,4-trimethyl-benzene	No	No	Yes	No	No	No	
Naphtha, Petroleum Distillates	No	No	No	No	No	No	
2-methoxypropanol acetate	No	No	No	No	No	No	
1-methoxy-2-propanol	No	No	No	No	No	No	
p-menthadiene	No	No	No	No	No	No	

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**16. OTHER INFORMATION**

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**HMIS: Health 2, Flammability 2, Reactivity 0**

Text of risk phrases mentioned in Section 2:

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Xn	Harmful
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36/37/38	Irritating to eyes, respiratory system and eyes
43	May cause sensitization by skin contact
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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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